REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	DEPARTMENT OF COMMUNITY PLANNING & DEVELOPMENT 201 W. COLFAX AVENUE, DEPT. 205 DENVER, CO 80202 T: (720) 865-2700	BUILDING DEPARTMENT:	DEPARTMENT OF COMMUNITY PLANNING & DEVELOPMENT 201 W. COLFAX AVENUE, DEPT. 205 DENVER, CO 80202 T: (720) 865-2700	HEALTH DEPARTMENT:	DEPARTMENT OF PUBLIC HEALTH & ENVIROMENT 101 W. COLFAX AVENUE, DEPT 800 DENVER, CO 80202 E: DPHEPLANREVIEW@DENVERGOV.ORG T: (720) 913-1311
FIRE DEPARTMENT:	DENVER FIRE PREVENTION DEPARTMENT 745 W. COLFAX AVENUE DENVER, CO 80204 E: DENFPB@DENVERGOV.ORG T: (720) 913-3474	WATER UTILITY:	DENVER WATER 1600 W. 12TH AVENUE DENVER, CO 80204 E: CUSTOMERCARE@DENVERWATER.ORG T: (303) 628-6100	SEWER UTILITY:	WASTEWATER MANAGEMENT DIVISION 201 W. COLFAX AVENUE, DEPT. 203 DENVER, CO 80202 E: WASTEWATERPERMITS@DENVERGOV.ORG T: (720) 865-3060
ELECTRICAL UTILITY:	XCEL ENERGY 3751 FRASER STREET AURORA, CO 80011 T: (800) 628-2121				

PROJECT INFORMATION

LANDLORD:	RUNWAY 35 NORTH, LLC 4201 EAST YALE AVENUE, SUITE 140 DENVER, CO 80222 CONTACT: CORIE FRAKER E: CFRAKER@WALLDEVGROUP.COM T: (720) 907-9010	TENANT:	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: JULIA BROOKS E: JULIA.BROOKS@CHIPOTLE.COM T:614.364.0021	ARCHITECT:	LINGLE DESIGN GROUP 1764 BLAKE STREET DENVER, CO 80202 CONTACT: CHRIS LASKY E: CHRISLASKY@LINGLEDESIGN.COM T: (303) 974 - 5873 EXT. 209 ARCHITECT OF RECORD: CARL LINGLE E: CARLLINGLE@LINGLEDESIGN.COM
MECHANICAL /PLUMBING ENGINEER:	WCW ENGINEERING 760 CREEL DRIVE WOOD DALE, IL 60191 CONTACT: SUNG KWON E: SUNG.KWON@WCWENGINEERS.COM T: (630) 595 - 8800 EXT. 203 F: (630) 595 - 8818	STRUCTURAL ENGINEER:	BROYLES & ASSOCIATES, PC 508 BAYLOR COURT, SUITE C CHESAPEAKE VA 23320 CONTACT: JOE BEAUCHAMP, PE SE JBEAUCHAMP@BROYLESANDASSOCIATES.COM T: (757) 436-2070	CIVIL ENGINEER:	RIDGETOP ENGINEERING & SURVEY 541 E GARDEN DR, UNIT N WINDSOR CO 80550 CONTACT: MIKE BEACH E: MBEACH@RIDGETOPENG.COM T: (970) 663-4552
ELECTRICAL ENGINEER:	DICKERSON ENGINEERING INC. 3343 N. RIDGE AVENUE ARLINGTON HEIGHTS, IL 60004 CONTACT: SAMEER RAHEJA E: SAMEER.RAHEJA@DEI-PE.COM T: (847) 966 - 0290				

UTILITY COORDINATOR

NOTE to GC:
FOR ALL WATER, SEWER, NATURAL GAS, & ELECTRICITY UTILITIES CONTACT:

GAUCHER & ASSOCIATES INC.
SEASIDE, CA 93955
CONTACT: PAUL GAUCHER
E: PAUL@GAUCHERINC.COM
T: (831) 393-1760
F: (831) 393-2858
DIRECT: (831) 233-6015

SIGN VENDOR

ADCON SIGNS
3725 CANAL DRIVE
FORT COLLINS, CO 80524
CONTACT: KRISTI MARRIOTT
E: KMARRIOTT@ADCON-SIGNS.COM
T: (970) 484-3637 DIRECT: (970) 472-2152

GRAPHIC SYMBOLS

1 / A101 / 1 (1)	EXTERIOR ELEVATION MARKER	0	COLUMN GRID LABEL
1 / A101 / 1 (2)	INTERIOR ELEVATION MARKER	Room name 101	ROOM NAME & NUMBER
SIM / 1 / A101	SECTION MARKER	1	REVISION NUMBER
SIM / 1 / A101	SECTION / DETAIL	1i	DOOR NUMBER
1 / A101 View Name, View Scale	VIEW LABEL	XX.X	MISCELLANEOUS EQUIPMENT NUMBER
		XX.X	FURNITURE NUMBER
		XX.X	KITCHEN EQUIPMENT NUMBER
		X	WASHROOM ACCESSORIES NUMBER
		W1	WALL TAG
			LEVEL TARGET
			NORTH ARROW
			DIMENSION TARGET
		P1	FINISH TAG

ABBREVIATIONS

℄	CENTER LINE	GALV	GALVANIZED	RD	ROOF DRAIN	TS	TENANT'S SAFE SUPPLIER
@	AT	GC	GENERAL CONTRACTOR	RE	REFER TO	TSS	TENANT'S SMART SAFE SUPPLIER
Ø	DIAMETER OR ROUND	GYP	GYPSUM	RTU	ROOF TOP UNITS	TSV	TENANT'S SIGN VENDOR
AFF	ABOVE FINISH FLOOR	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	SIM	SIMILAR	TUV	TENANT'S UV SUPPLIER
ALUM	ALUMINUM	HS	HOOD SUPPLIER	SPS	SODA POP SUPPLIER	TYP	TYPICAL
ARCH	ARCHITECT(URAL)	HVAC	HEATING AND VENTILATING	SS	SUPPORT SIGNAGE	U.N.O.	UNLESS NOTED OTHERWISE
ASS	ALARM SYSTEM SUPPLIER	ICP	INITIAL COST PROJECTION	STL	STEEL	UPS	UNINTERRUPTED POWER SUPPLY
BD	BOARD	IFP	IN FOR PERMIT	STRUCT	STRUCTURE	VAR	VARIES
BLDG	BUILDING	INT	INTERIOR	T	TENANT	VIF	VERIFY IN FIELD
CLNG	CEILING	KES	KITCHEN EQUIPMENT SUPPLIER	TAB	TENANT'S TEST & BALANCE VENDOR	W/	WITH
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM	TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL	WA	WASHROOM ACCESSORIES
CO2	CO2 SUPPLIER	MECH	MECHANICAL	TCC	TENANT'S CABLING CONTRACTOR	WCS	TENANT'S WALK-IN COOLER SUPPLIER
CO2AS	CO2 ALARM SUPPLIER	MFR	MANUFACTURER	TDC	TENANT'S DUCT CLEANER	WHS	WATER HEATER SUPPLIER
CS	CHEMICAL SUPPLIER	MIN	MINIMUM	TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER	WS	TENANT'S WINDOW SHADE SUPPLIER
DIM	DIMENSION(S)	MISC	MISCELLANEOUS	THS	TENANT'S HARDWARE SUPPLIER		
(E)	EXISTING CONSTRUCTION	MSS	MUSIC SYSTEMS SUPPLIER	TLS	TENANT'S LIGHT/LAMP SUPPLIER		
EA	EACH	MTL	METAL	TMB	TENANT'S MENU BOARD SUPPLIER		
EL	ELEVATION (VERTICAL HEIGHT)	(N)	NEW CONSTRUCTION	TMS	TENANT'S MILLWORK SUPPLIER		
ELEC	ELECTRIC(AL)	N.I.C.	NOT IN CONTRACT	TP	TENANT'S PHONE SUPPLIER		
ELEV	ELEVATION	NO	NUMBER	TPS	TENANT PANELBOARD SUPPLIER		
EQ	EQUAL	OC	ON CENTER	TRS	TENANT'S RAILING SUPPLIER		
EXT	EXTERIOR	OSB	ORIENTED STRAND BOARD				
EXT	EXTERIOR	PLUM	PLUMBING				
FC	FOR CONSTRUCTION	POS	POINT OF SALE				
FRP	FIBERGLASS REINFORCED PANEL	PREP	PREPARATION				
FRT	FIRE RETARDANT-TREATED	PVC	POLYVINYL CHLORIDE				
GA	GAUGE	QT	QUARRY TILE				
		R	RADIUS				

STORE NUMBER: 05-5119

RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

SCOPE OF WORK

NEW FREESTANDING BUILDING: POURED CONCRETE FOUNDATION, WD STUD WITH MASONRY CAVITY CONSTRUCTION, WD ROOF TRUSSES WITH FULL INTERIOR TENANT BUILD OUT.

GROUP	TENANT	USE
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	A-2

SEE G001 FOR COMPLETE BUILDING CODE DATA AND INFO

PROJECT NOTES

1. ALL COMMUNICATION FOR THIS PROJECT MUST BE DIRECTED THROUGH THE ARCHITECT OF RECORD [AOR]. DIRECT CONTACT OF CONSULTANTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF AOR.
2. REPORT ANY DISCREPANCANIES BTWN DWGS AND FIELD CONDITIONS TO AOR IN WRITING.
3. ALL MEANS OF EGRESS TO REMAIN IDENTIFIABLE AND OPEN DURING CONSTRUCTION.
4. CONTRACTOR SHALL COMPLY W/SOW AS OUTLINED ON WORK LETTER ON SHEET G003 PRIOR TO BIDDING AND CONSTRUCTION.

ASSOC BLDG PERMITS:

SHELL/LANDLORD DRAWINGS:

CIVIL DRAWINGS:
2023-SDP-0000310

2023-SSPR-0000248

2023-EC-0000206

VICINITY MAP

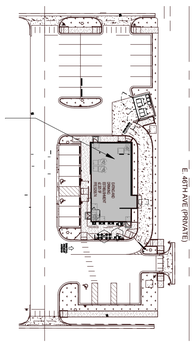
RUNWAY 35N



1 / G000 **VICINITY MAP**
12" = 1'-0"

KEY PLAN

AREA OF WORK



TRUE NORTH / 2 / G000 **KEY SITE PLAN**
1" = 60'-0"

DEFERRED SUBMITTAL S

DEFERRED SUBMITTALS:	FORTHCOMING BY:
FIRE ALARM SYSTEM	GC
PRE-ENGINEERED TRUSSES	GC
PRE-FINISHED CANOPIES	VENDOR / GC
KITCHEN HOOD EXTINGQUISHING SYSTEM	HOOD MANUFACTURER
CARBON DIOXIDE BEVERAGE DISPENSING SYSTEM	HOOD MANUFACTURER

1

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Consultant:
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158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5873
WWW.LINGLEDESIGN.COM
LICENSED ARCHITECT CARL L LINGLE 306135 STATE OF COLORADO

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CHIPOTLE MEXICAN GRILL, INC.
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STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:
05/09/2024 PERMIT SET

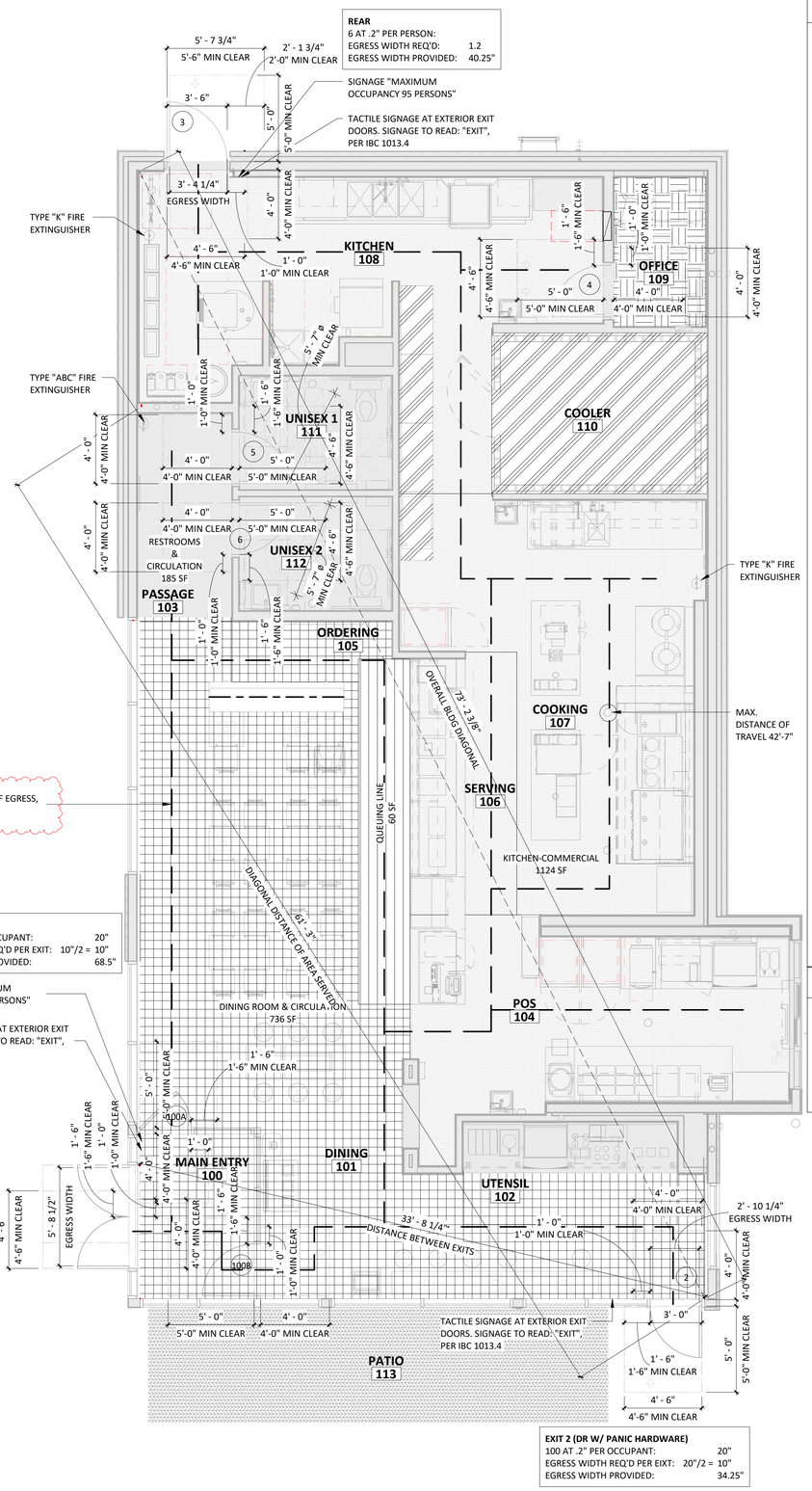
Revisions:
1 08/07/2024 PERMIT COMMENTS

Drawn: EYW
Checked: CL

Project No.
05-5119

Contents:
COVER SHEET

G000



1 G001 **EGRESS & ACCESSIBILITY PLAN**

1/4" = 1'-0"

C408 MAINTENANCE INFO & SYSTEM REQUIREMENTS (See G001.2)

https://codes.iccsafe.org/content/IECC2021P2/chapter-4-ce-commercial-energy-efficiency#IECC2021P2_CE_Ch04_SecC408.1
C408.1 GENERAL
C408.1.1 BLDG OPERATION & MAINTENANCE INFO
C408.2 MECH SYSTEMS & SERVICE WATER HEATING SYSTEMS COMMISSIONING & COMPLET'N REQ
C408.2.1 COMMISSIONING PLAN
A COMMISSIONING PLAN SHALL BE DEVELOPED BY A REG DESIGN PROFESSIONAL *OR* APPROVED AGENCY *AND SHALL INCL THE FOLLOWING ITEMS:*

1. *A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSION, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.*
2. *A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTMES TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.*
3. *FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND ECONOMMIZERS CONTROLS.*
4. *CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED. TESTING SHALL AFFIRM WINTER AND SUMMER DESIGN CONDITIOND AND FULL OUTSIDE AIR CONDITIONS.*
5. *MEASURABLE CRITERIA FOR PERFORMANCE.*

C408.2.2 SYSTEMS ADJUSTING & BALANCING, C408.2.2.1 AIR SYSTEMS BALANCING,
C408.2.2.2 HYDRONIC SYSTEMS BALANCING
C408.2.3 FUNCTIONAL PERFORMANCE TESTING
C408.2.3.1 EQUIPMENT
C408.2.3.2 CONTROLS
C408.2.3.3 ECONOMIZERS
C408.2.4 PRELIMINARY COMMISSIONING REPORT
A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REG DESIGN PROFESSIONAL *OR* APPROVED AGENCY *AND PROVIDED TO THE BLDG OWNER OR OWNER'S AUTHORIZED AGENT. THE REPORT SHALL BE ORGANZIED W/MECHANICAL AND SERVICE HOT WATER FINDINGS IN SEPARATE SECTION TO ALLOW INDEPEDENT REVIEW. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT," SHALL INCLUDE THE COMPLETED COMMISSIONING COMPLIANCE CHECKLIST, FIG C408.2.4 AND SHALL IDENTIFY:*

1. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQ'D BY THIS SECTION THAT HAVE BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
2. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMACTIC CONDITIONS.
3. CLIMACTIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.
4. RESULTS OF FUNCTION PERFORMANCE TESTS.
5. FUNCTIONAL PERFORMANCE TEST PROCEDEURES USED DURING COMMISSIONING PROCESS, INCL MEASURABLE CRITERIA FOR TEST ACCEPTANCE.

C408.2.4.1 ACCEPTANCE OF REPORT
BLDG, OR PORTIONS THEREOF, SHALL MOT BE CONSIDERED AS ACCEPTABLE FOR FINAL INSPECTION PURSUANT TO SECTION C105.2.6 UNTIL THE CODE OFFICIAL HAS REC'D THE PRELIM COMMISSIONING REPORT FROM THE BLDG OWNER OR OWNER'S AUTHORIZED AGENT.
C408.2.4.2 COPY OF THE REPORT
C408.2.5 DOCUMENTATION REQUIREMENTS
THE CONSTRUCTION DOCUMENTS SHALL SPECIFIY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BLDG OWNER OR AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
C408.2.5.1 SYSTEM BALANCING REPORT
A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASURMENTS COMPLETED IN ACCORDANCE W/SECTION C408.2.2.
C408.2.5.2 FINAL COMMISSIONG REPORT
C408.3 FUNCTIONAL TESTING OF LIGHTING CONTROLS
C408.3.1 FUNCTIONAL TESTING
C408.3.1.1 OCCUPANT SENSOR CONTROLS
C408.3.1.2 TIME-SWITCH CONTROLS
C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS
C408.3.2 DOCUMENTATION REQUIREMENTS
THE CDS SHALL SPECIFY THAT THE DOCUMENTS DESRIBED IN THIS SECTION BE PROVIDED TO THE BLDG OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
C408.3.2.1 DRAWINGS
CD SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EA PIECE OF EQUIPMENT.
C408.3.2.2 MANUALS
C408.3.2.3 REPORT
A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

1. RESULTS OF FUNCTIONAL PERFORAMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCL DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

LINE LEGEND - LIFE SAFETY PLANS

- PATH OF TRAVEL LINES
- STRUCTURAL GRID LINES
- DOOR & EQUIP. CLEARANCE LINES
- OVERHEAD EXT. UMBRELLA LINES

BUILDING CODE & ZONING DATA

1. OCCUPANCY GROUP: A-2
   OCCUPANCY SEPARATION REQUIRED: N/A
   OCCUPANCY SEPARATION PROVIDED: N/A
2. TYPE OF CONSTRUCTION: V-B
3. USE GROUP: A-2
   ALLOWABLE AREA: 6,000 SF
   AREA INCREASE W/ SPRINKLERS: N/A
   GROSS AREA: 2,400 SF
   NET AREA (INT SHELL): 2,225 SF
   NET USUABLE AREA: 2,103 SF
   GROSS AREA/OCCUPANT: 2,400/68 = 35 SF
4. ALLOWABLE NO. OF STORIES: 1
   ACTUAL NO. OF STORIES: 1
   ALLOWABLE BUILDING HEIGHT: 40'-0" MAXIMUM HEIGHT
   ACTUAL BUILDING HEIGHT: 20'-8"
5. CALCULATED OCCUPANT LOAD
   95
   POSTED OCCUPANT LOAD
   95
   SEATING:
   INTERIOR: 33 SEATS
   PATIO: 16 SEATS
6. MEANS OF EGRESS REQUIRED: 2 (PER 1006.3.1)
   MEANS OF EGRESS PROVIDED: 2
   i. TOTAL EGRESS WIDTH REQUIRED
   99 MAX INT. OCCUP. X .2" =20"
   ii. TOTAL EGRESS WIDTH PROVIDED
   EXIT 1: 68.5" + EXIT 2: 34.25" =
   CLEAR DOOR EXIT LEAFS = 102.75"
7. FIRE SPRINKLERS: NOT REQ'D PER FIRE CODE CH 11
   1103.5.1 GROUP A-2.
8. PLUMBING FIXTURES

	WATER CLOSETS		LAVORATORIES		URINALS	
	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D
MEN'S:	1	1	1	1	0	0
WOMEN'S:	1	1	1	1	0	0

	DRINKING FOUNTAIN		SERVICE SINK	
	REQ'D	PROV'D	REQ'D	PROV'D
	1 PER 500	*0	1	1

*WATER PROVIDED FREE OF CHARGE

NOTE: RESTROOMS SHOWN AS UNISEX WITH TOTAL FIXTURE COUNTS MET. PER 403.2 SEPARATE FACILITIES NOT REQ'D.

9. LIFE SAFETY SYSTEMS: RE ELEC
   EMERGENCY LIGHTING: INCLUDED
   EXIT SIGNS: INCLUDED
   FIRE ALARM: NOT REQUIRED
   SMOKE DETECTORS: NOT REQUIRED
   SPRINKLER/FLOW TAMPER SWITCH: N/A (SPRINKLER SYSTEM NOT REQ'D)
   CO_2 DETECTION: INCLUDED

CODE AUTHORITIES

BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:	2021 INTERNATIONAL PLUMBING CODE
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE
FUEL GAS CODE:	2021 INTERNATIONAL FUEL GAS CODE
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE
FIRE CODE:	2021 INTERNATIONAL FIRE CODE
ACCESSIBILITY:	2017 DENVER ACCESSIBILITY CODE, 2010 ADA STD & ICC A117.1-2017

ADDITONAL EGRESS INFORMATION

EGRESS SEPARATION NOTE

OVERALL DISTANCE: 61'-3" AREA SERVED 73'-2" OVERALL BLDG

REQUIRED SEPARATION: 30'-6 1/4" (NON-SPRINKLERED)
(NON-SPRINKLERED & PER 1007.1.1, NOT LESS THAN 1/2 THE LENGTH OF MAX OVERALL DIAGONAL DIMENSION OF THE BLDG AREA TO BE SERVED)

MAX EXIT ACCESS TRAVEL
DISTANCE PER TABLE 1017.2: 200' (NON-SPRINKLERED)

PROVIDED SEPARATION: 33'-8 1/4"

ENERGY CODE INFORMATION

ENERGY CODE COMPLIANCE METHOD: PRESCRIPTIVE PATH, SEE **2022 Denver Energy Code - Commercial Compliance Checklist** ON SHEET G001.1

PER 401.2.1 IECC PRESCRIPTIVE COMPLIANCE REQUIRES COMPLIANCE WITH:
C402 BLDG ENVELOPE REQUIREMENTS
C403 BLDG MECHANICAL SYSTEMS
C404 SERVICE WATER HEATING
C405 ELEC POWER & LIGHTING SYSTEMS
C406 ADDITIONAL EFFICIENCY REQUIREMENTS
C408 MAINTENANCE INFO & SYSTEMS COMMISSIONING (See G001.2)

C402 BLDG ENVELOPE REQUIREMENTS

See G001.2 for ComCheck for Building Envelope

GENERAL NOTES

PER 401.2.1 IECC PRESCRIPTIVE COMPLIANCE REQUIRES COMPLIANCE WITH:
C402 BLDG ENVELOPE REQUIREMENTS
C403 BLDG MECHANICAL SYSTEMS
C404 SERVICE WATER HEATING
C405 ELEC POWER & LIGHTING SYSTEMS
C406 ADDITIONAL EFFICIENCY REQUIREMENTS
C408 MAINTENANCE INFO & SYSTEMS COMMISSIONING (See G001.2)

OCCUPANCY LOAD (PER IFC TABLE 1004.5)

ASSEMBLY AREAS	TOTAL	CALCULATED OCCUPANT LOAD	ACTUAL SEAT COUNT/EMPLOYEES
DINNING (ASSEMBLY W/O FIXED SEATING - UNCONCENTRATED): 15 NET SF PER OCCUPANT	663 SF	45	30
ASSEMBLY W/FIXED SEATING 24 LINEAL INCHES PER OCCUPANT	94"	4	3
STANDING SPACE (ASSEMBLY W/O FIXED SEATING): 5 NET SF PER OCCUPANT	60 SF	12	-
KITCHEN COMMERCIAL: 200 GROSS SF PER OCCUPANT	929 SF	5	7
ACCESSORY/STORAGE: 300 GROSS SF PER OCCUPANT	148 SF	1	-
OFFICE (BUSINESS AREA): 150 GROSS SF PER OCCUPANT	46	1	-
TOTAL INTERIOR OCCUPANTS:		68	40
PATIO (ASSEMBLY W/O FIXED SEATS - UNCONCENTRATED): 15 NET SF PER OCCUPANT	396 SF	27	16
TOTAL EXTERIOR OCCUPANTS:		27	16
TOTAL OCCUPANTS:		95	56
UNOCCUPIED (ACCESSORY AREA IN ASSENBLE AREA): 0 SF PER OCCUPANT	495 SF	-	

ACCESSIBLE SEATING CALCULATIONS

TOTAL SEATING:	30 INT. 16 EXT.	
TOTAL REQUIRED ACCESSIBLE INTERIOR SEATING (5% OF TOTAL)	2	
REQUIRED ACCESSIBLE PATIO SEATING (5% OF TOTAL)	1	

ENERGY CODE INFORMATION

ENERGY CODE COMPLIANCE METHOD: PRESCRIPTIVE PATH, SEE **2022 Denver Energy Code - Commercial Compliance Checklist** ON SHEET G001.1

PER 401.2.1 IECC PRESCRIPTIVE COMPLIANCE REQUIRES COMPLIANCE WITH:
C402 BLDG ENVELOPE REQUIREMENTS
C403 BLDG MECHANICAL SYSTEMS
C404 SERVICE WATER HEATING
C405 ELEC POWER & LIGHTING SYSTEMS
C406 ADDITIONAL EFFICIENCY REQUIREMENTS
C408 MAINTENANCE INFO & SYSTEMS COMMISSIONING (See G001.2)

C402 BLDG ENVELOPE REQUIREMENTS

County: Denver — Climate Zone per [2021 IECC] Table C301.1: 5B

Vestibule per [2021 IECC] C402.5.9: Not Required per exception 4 (Doors that open directly from a space less than 3000 SF in area)

Bldg Envelope Fenestration Max U Factor & SHGC Requirements per [2021 IECC] Table C402.4:
Max U factor: Fixed: .36 Operable .45 Entrance Doors: .63

Adjusted Solar Heat Gain Coefficients

Projection Factor	Fixed		Operable	
	South, East, West	North	South, East, West	North
PF < 0.2	0.30	0.36	0.26	0.31
0.2 < PF <0.5	0.36	0.43	0.32	0.38
PF > 0.5	0.48	0.58	0.42	0.50

PF @ Chipotlane Pick Up Win: PF A:2.27' PF B: 6.64' PF A/PF B = .34
.4 Max SHGC required at Chipotlane Pick Up Win

Opaque Thermal Envelope Assembly Max Requirements per [2021 IECC] Table C402.1.4:
Opaque Swinging Door: U-0.37

R-Values per [2021 IECC] Table C402.1.3:
Roof: R-30 CI
Walls: 3.8R-10 CI
Slab: R-15 for 24" below

1

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DENVER CO 80238

Issue Record:
05/09/2024 PERMIT SET

Revisions:
1 08/07/2024 PERMIT COMMENTS

Drawn: JM Checked: JK

Project No.
05-5119

Contents:
PROJECT DATA & LIFE SAFETY PLAN

G001

DENVER ENERGY CODE - COMMERCIAL COMPLIANCE CHECKLIST

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 5/8/2024

		RESPONSE	SUBMITTER NOTES
Indicate if the project scope includes any of the following:	New construction (Y/N):	N	
	Addition (Y/N):	N	
	Change of occupancy or use (Y/N):	N	
	Fuel fired water heater (Y/N):	N	
	Cost of work in the existing occupied space (Y/N):	N	
	Core and shell only (Y/N):	N	
	New parking (Y/N):	Y	New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		1,400 GROSS/ 2,220 NET	
Property type	Is this an all-electric property? (Y/N):	Y	**ALL-ELECTRIC PROPERTY.** A property or a single assessment parcel with an aggregate square footage of 50,000 sf or less, other than a Group R-2, Group R-3, Hotel, for emergency power systems, and standby power systems: 1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for fuel gas or fuel oil or fuel gas utility connection, installed within the building(s) or site ; or 2) Is designed, built, and ready to operate as an all-electric building where the property includes existing fuel gas or fuel oil infrastructure built under a code effective prior to May 1, 2019
		X SERIES SHEETS	

ENERGIZE DENVER				
C101.2	Final 2020 target EUI required by Energize Denver	Enter the final 2030 target EUI required by Energize Denver (A+, 4Yo, 1A, 5B Buildings and building regulations). ERMC applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver. Refer to the Energize Denver compliance document available from the Office of Climate Action, Sustainability and Resilience. Applies to buildings 25,000 sf and larger.	N/A	Enter EUI in Response box. Indicate location of supplemental calculations if applicable See Technical Guidance for Target Adjustments Appendix A 2030 Targets

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.5.1.5	Building Thermal Envelope Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado registered design professional or approved agency and a final commissioning report provided.	Y	EC02 - WEATHER BARRIER, G012, A402 – A409	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & M010	Indicate location of: Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & P010	Indicate location of: Letter with qualifications of the sf the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G001 & G001.2	Indicate location of: Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

05.08.2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	For new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1 Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C406.1 EF / APPENDIX CB - SOLAR ACCESS					
C405.14 CB 103.1 CB 103.2 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low slope roofs (2:12). Solar ready zone to be no less than 40% of roof area and no side shall be less than 5 feet in length. No dimension of the solar ready zone shall be less than 5 feet in length. Skylights and roof mounted equipment shall be located in the solar ready zone.	Y	A100	Indicate location of: - Calculations showing roof area per CAES.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zone on drawings and indicate the roof pitch, number of roof faces, dimensions of each face, and total square footage. - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar-ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system ready area shall not be less than 2 feet by 4 feet or either dimension.	Y	A110, A130	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system ready area
C406.2 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalation	Indicate location of: - Escalator and moving walkway specifications

Version 1.6 Dated March 1, 2024

05.08.2024

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Planning Tool for CAES.2 2022 Denver Energy Code Additional Energy Efficiency Credit Requirements for New Construction and C502 Additions

Instructions: Enter values in the applicable cells. Read about Tables CAES.2.2 and CAES.2.3 in the Code.

Project Background		
1. Project is mixed-use (Y/N):	Y	3. CAES.2.4 Space Heating is required (Y/N):
2. Project is not exclusively occupied Group R (Y/N):	Y	4. CAES.2.5 Water Heating is required (Y/N):
3. Using ASHRAE 90.1 Model Simulation Guidelines (Y/N):		

Credit Requirements Table CAES.2.2				Use Group for Table CAES.2.2
	Floor Area by Building Type	Denver Credit Requirements		
	sqft	All Electric Prospective	All Electric Buildings	
Multifamily		15	46	Group R
Multifamily Residential		15	46	Group R
Hotel/Motel		15	46	Group R
Office		15	36	Group B
Retail		15	36	Group M
School		15	36	Group E
Warehouse		15	16	Other Occupancies (Group S)
Other	1,400	15	36	Other Occupancies
Total	1,400			
Area Weighted Denver Credit Requirements		15	36	
Credits Required	38			

5. Check Your Area matches in Tables CAN.2.2.5 and CAN.2.2.6: Y
6. Check Your Credits matches in Tables CAES.2.2 and CAES.2.3: Y
7. Summary requirements (versus credits): Meeting Credit Requirements is (if not included Credits are 0):

CAES.7.1 Provide Service Hot Water Credits - Optional

	Floor Area by Building Type	Percent Provided by Building Floor Area
	sqft	(%)
Group R-1: Boarding houses, hotels or motels		
Group R-2: Multifamily, assisted living facilities and nursing homes		
Group R-3		
Total Group R and I	0	0%
Group A-2: Restaurants with full service kitchens or boiler rooms with showers		
Total Group A	0	
Group A-3: Restaurants, banquet halls and buildings containing food preparation areas	1,400	
Group B: Office and Lab uses		
Group E: Health clinic and lab uses		
Total Other Occupancies	1,400	100%
Credit: Provide service water heat of 10% or more of total building energy loads, as shown with an energy analysis described in Section C407		Building with service hot water load of 10% are not included in this tool
1. Building must comply with ENA.2.1 Energy Use Intensity Targets	Y	Buildings that must comply with ENA.2.1 are eligible for half the credits of CAES.7.1

Table CAES.1 Additional energy efficiency credit requirements for Denver

	Group B	Group R and I	Group E	Group M	Other Occupancies	Total Area (sf)
Total Floor Area by Use Group (sf)					1,400	1,400
Check: Too many credits selected for (# of Used):						
Included Credits for the Group	0	0	0	0	50	Total Included Credits
Total Floor Area Weighted Included Credits						0

Section	Included in CONOnsen #22-2021 OR Denver Specific	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Notes	Documentation	Calculation Type	Threshold
CAES.2.2.1: CO ₂ Heating Efficiency Improvement	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	5%
CAES.2.2.2: CO ₂ Heating Efficiency Improvement	CONOnsen #22-2021		2		2		2		2	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	10%
CAES.2.2.3: CO ₂ Heating Efficiency Improvement	CONOnsen #22-2021		3		3		3		3	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	15%
CAES.2.2.4: GHG Cooling Efficiency Improvement	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	10%
CAES.2.2.5: GHG Heating Efficiency Improvement	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.2.2.1.CAN.2.2.6 - Manually enter credits and provide calculation	Calculation	Efficiency % diff	10%
CAES.2.2.6 : GHG Heating Efficiency Improvement	Denver Specific		2		2		2		2	Select only 1 from CAN.2.2.1.CAN.2.2.6 - Manually enter credits and provide calculation	Calculation	Modified Efficiency % diff	>10%
CAES.3: Reduced Light Power	CONOnsen #22-2021 with Denver Specific instructions		2		2		2		2	Select only 1 from CAN.3.CAN.3.1 (15, CAN.3.2 >15%, Denver modifies Building Area Method Table CAN.3.2.D)	Calculation	Efficiency % diff	20%
CAES.3.1: Reduced Lighting power by 15%	CONOnsen #22-2021 with Denver Specific instructions		1		1		1		1	Select only 1 from CAN.3.CAN.3.1 (15, CAN.3.2 >15%, Denver modifies Building Area Method Table CAN.3.2.D)	Calculation	Efficiency % diff	>15%
CAES.3.2: Reduced lighting power by >15%	CONOnsen #22-2021 with Denver Specific instructions		2		2		2		2	Select only 1 from CAN.3.CAN.3.1 (15, CAN.3.2 >15%, Denver modifies Building Area Method Table CAN.3.2.D)	Calculation	Modified Efficiency % diff	>15%
CAES.3.3: Occupancy Sensor Controls	CONOnsen #22-2021		1	NA	1		1		1	Select only 1 from CAN.3.1.CAN.3.3	Drawing, Sequence of Ops	Capacity	
CAES.3.3: Auto Shutoff Controls	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.3.1.CAN.3.3 - Manually enter credits and provide calculation	Calculation	Capacity	
CAES.3.4: Reduced Lighting Power by 10%(C Credit)											Calculation, Sequence of Ops	Modified Capacity	
CAES.3.5: Daylighted Zones	CONOnsen #22-2021		1		1	NA	1		1	Select only 1 from CAN.3.1.CAN.3.3	Drawing, Sequence of Ops	Area	
CAES.3.6: Reconnect/Remote SWP	CONOnsen #22-2021		NA		1	NA	1		1	Enter building types in Table CAN.3.1 to provide. If must comply with CAES.2.1 eligible for half the credits.	Calculation	Capacity	
CAES.3.7: Reduced Lighting Power by 5%	CONOnsen #22-2021		NA		1		1		1	Enter building types in Table CAN.3.1 to provide	Calculation	Efficiency % diff	
CAES.3.8: Heat Pump SWP	CONOnsen #22-2021		NA		1		1		1	Enter building types in Table CAN.3.1 to provide	Schedule, Drawing	NA	
CAES.3.9: Reduced envelope UA	CONOnsen #22-2021 with Denver Specific instructions		10		4		5		6	Select only 1 from CAN.4.1.CAN.4.2	Calculation	UA % diff	15%
CAES.3.10: Reduced envelope UA	CONOnsen #22-2021 with Denver Specific instructions		5		2		3		3	Select only 1 from CAN.4.1.CAN.4.2	Calculation	UA % diff	>15%
CAES.3.11: Reduced Air Infiltration	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.4.3.1.CAN.4.3.2	Document, Report	NA	0.25 cfm/sf at 75 Pa
CAES.3.12: Further Reduced Air Infiltration	Denver Specific - threshold only		2		2	NA	1		2	Select only 1 from CAN.4.3.1.CAN.4.3.2	Document, Report	NA	0.15 cfm/sf at 75 Pa
CAES.3.13: Fuel Switching	CONOnsen #22-2021		5		5		5		5		Calculation, Spec	NA	
CAES.3.14: Fuel Switching	CONOnsen #22-2021		10		10		10		10		Drawings, Spec	NA	
CAES.3.15 Efficient Kitchen Equipment	CONOnsen #22-2021									Manually enter points and provide calculation - 20 Max	Calculation	Modified efficiency % diff	
CAES.3.16: Cold Climate Heat Pumps	Denver Specific		0		0		0		0	All Electric Prospective and eligible, Available when not required by CAES.2.4	Schedule, Calculation	NOTE	
CAES.3.17: Cold Climate Heat Pumps	Denver Specific		0		0		0		0	All Electric Prospective and eligible, Available when not required by CAES.2.4	Schedule, Calculation	NOTE	
CAES.3.18: Demand Responsive Thermostats	Denver Specific		1		1		1		1		Drawing, Spec	NA	
CAES.2.2.7: Further Reduced Air Flow	Denver Specific		1	NA	1		1		1	Select only 1 from CAN.2.2.7.CAN.2.2.7	Calculation	Air power % diff	10%
CAES.2.2.7: Further Reduced Air Flow	Denver Specific		2	NA	2		2		2	Select only 1 from CAN.2.2.7.CAN.2.2.7	Calculation	Air power % diff	20%

a. Other occupancy groups include all Groups except for Groups B, R, I, I, and M

b. For occupancy groups listed in CAN.1.1

Version 1.6 Dated November 7, 2023

05.08.2024

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2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - Building Envelope

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 5/8/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
ALL COMPLIANCE PATHS					
C402.1.5	Minimum insulation	Roofs, walls, and floors shall meet applicable maximum U-factor requirements of Table C402.1.5	Y	G001, G012, A403 - A409 & A602	Indicate location of: - Supplemental calculations if applicable
C402.1	Thermal Envelope	Thermal envelope shall be depicted.	Y	Sheets A401 - A409	Indicate location of: - Drawings with thermal envelope as required by C103.2.1
C402.5	Air Barrier	Continuous air barrier shall be provided.	Y	Sheets A403 - A409	Indicate location of: - Drawings with continuous air barrier and air sealing details as required by C103.2
C402.5.5	Room Containing Fuel Burning Appliances	Rooms containing fuel burning appliances and combustion air openings shall be located outside the building thermal envelope or located in a room that is enclosed and isolated from conditioned spaces inside the thermal envelope, note the exception.	N/A	Project does not contain fuel burng appliances Or combustion air openings.	Indicate location of: - Drawings showing rooms containing fuel burning appliances and combustion air openings
C402.5.8	Loading dock weather seals	Cargo door and loading door openings shall be equipped with weather seals.	N/A	Project does not have cargo door.	Indicate location of: - Drawings with weather seals
C402.5.9	Vestibules	Building entrances shall be protected with vestibules when opening into a space greater than or equal to 3,000 sf.	N/A	Area is less than 3,000	Indicate location of: - Drawings with vestibules

05.0E

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	Y	Separate ComCheck shall be provided.	Indicate location of: COMcheck certificate and inspection checklist Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C402.1 C402.2.1	Roof Assembly	Roof assembly shall comply with C402.2.1 and either C402.1.3, C402.1.4, or C402.1.5.	Y	A140, A401 - A409	Indicate location of: - Drawings with roof sections with the corresponding insulation thickness, type and R-value (at average thickness if tapered)
C402.1 C402.2.2	Above Grade Walls	Above grade walls shall comply with C402.2.2 and either C402.1.3, C402.1.4, or C402.1.5.	Y	G001, A401 - A409	Indicate location of: - Drawings with above grade wall sections with the corresponding insulation thickness, type, and R-value or assembly U-factor
C402.1 C402.2.3	Floors	Floors shall comply with C402.2.3 and either C402.1.3, C402.1.4, or C402.1.5.	Y	G001, A401 - A409	Indicate location of: - Drawings with floor sections with the corresponding insulation thickness, type and R-value
C402.1 C402.2.4	Slab-on-Grade Floors	Slab on grade floors shall comply with C402.2.4 and either C402.1.3, C402.1.4, or C402.1.5.	Y	G001, A401 - A409	Indicate location of: - Drawings with wall sections with the slab on grade floor with the corresponding insulation thickness, type and R-value Show insulation extending downward from the top of the slab.
C402.1 C402.2.5	Below Grade Walls	Below grade walls shall comply with C402.2.5 and either C402.1.3, C402.1.4, or C402.1.5.	N/A	Project does not include any below grade walls. Entire project is slab on grade.	Indicate location of: - Drawings with wall sections for below-grade wall assemblies with the corresponding insulation thickness, type and R-value or assembly C-factor
C402.1 C402.4.5	Opaque Doors	Opaque doors shall comply with either C402.1.4, or C402.1.5.	Y	G001, A601	Indicate location of: - Drawings with door schedules with U-factor of the opaque doors
C402.2.7	Air Spaces	When the R-value of an air space is used to show compliance with C402.1, air spaces shall be enclosed in unventilated cavity constructed to minimize air flow.	N/A	R-Values are met with insulation and are not dependint on air space.	Indicate location of: - Drawings with wall sections showing air space on the interior side of the continuous air barrier and bound on all sides by building components
C402.4.1	Fenestration (Maximum Area)	Vertical fenestration area shall be less than or equal to 30% of gross above grade wall area or less than or equal to 40% when meeting daylighting requirements. Not required with complying with C402.1.5.	N/A	Project is not pursuing this credit.	Indicate location of: - Drawings with vertical fenestration area calculations - Drawings with sidelit daylight zones

05.08.2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C402.4.1	Skylights (Maximum Area)	Skylight area shall be less than or equal to 3% of gross roof area or less than or equal to 6% when meeting daylighting requirements in toplit zones. Not required with complying with C402.1.5.	N/A	Project does not include any skylights.	Indicate location of: - Drawings with skylight area calculations - Drawings with toplit daylight zones
C402.4.2	Skylights (Minimum Area)	Provide a total toplit daylight zone not less than half the floor area for spaces greater than 2500 square foot with ceiling height greater than 15 feet and uses as an office, lobby, atrium, concourse, corridor, storage space, gymnasium/exercise center, convention center, automotive service area, space where manufacturing occurs, nonrefrigerated warehouse, retail store, distribution/sorting area, transportation dopot or workshop. See code for exceptions.	N/A	Project does not include any skylights.	Indicate location of: - Drawings with skylights - Drawings with toplit daylight zones
C402.4.3	Maximum U-factor and SHGC for Fenestration	Maximum U-factors and SHGC for fenestration shall comply with Table C402.4 or C402.1.5.	Y	G001, A601 & A602.	Indicate location of: - Drawings, schedules or specifications with U-factor (full system, not center of glazing) and SHGC of the fenestration
C406 SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.8.1 C406.8.2	Reduced envelope UA	Reduced UA of the building thermal envelope: C406.8.1 - 15% C406.8.2 - 25%	N/A	Project is not pursuing this credit.	Indicate credit selected and location of: - Building thermal envelope UA reduction - Supplemental calculations if applicable
C406.9.1 C406.9.2	Reduced Air Infiltration	The measured air leakage rate at 75 Pa shall not exceed C406.9.1 - 0.25 cfm/ft2 C406.9.2 - 0.15 cfm/ft2	N/A	Project is not pursuing this credit.	Indicate credit selected and location of: - Commissioning letter confirming air leakage target

Version 1.6 Dated March 1, 2024

05.08.2024

LIMITED MANDATORY USE CHECKLIST

2022 Denver Green Code
Limited Mandatory Use (LMU) Checklist

DENVER COMMUNITY PLANNING & DEVELOPMENT

For Use with Commercial Project Construction Document Submittals
(use 2022 Denver Green Code Table 101.4.1 for reference)

INSTRUCTIONS: Please complete the information in the tan-shaded cells. Use dropdown to select Project Type, then use dropdowns to mark selected provisions in each chapter. The quantity of provided provisions must be equal to or greater than the quantity of required provisions. For each selected provision, provide the drawing or specification number(s) where submittal requirements are shown in the construction documents.

The Limited Mandatory Use (LMU) Commercial checklist is required for all commercial projects complying with the Denver Building Code (DBC) for new buildings and major renovations and their sites.

This checklist identifies the minimum submittal requirements necessary to demonstrate compliance with the Denver Green Code provisions.

Project Type (SELECT ONE):	New Construction	Project meets minimum requirements of Limited Mandatory Use

Chapter 1: SCOPE AND ADMINISTRATION

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
EIS	Ecological Impact Statement *(May be submitted as a substitution provision to satisfy one required provision from any single qualifying chapter)*		
	Quantity of Required Provisions	**0**	
	Quantity of Provided Provisions	**0**	

Chapter 5: SITE SUSTAINABILITY [SS]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
SS01	Predesign Site Inventory and Assessment		
SS02	Invasive Plants	X	Landscaping Plan
SS03	Existing Native or Adapted Plants		
SS04	Minimum Vegetative Area		
SS05	Mulching of Shrub Bed/Planting Areas		
SS06	Only Functional (Active) Turfgrass		
SS07	Landscaping Design and Maintenance		
SS08	Established Tree Preservation		
SS09	Rock Mulch Allowances	X	2023-SDP-0000134
SS10	Stormwater Management	X	2023-EC-0000206
SS11	Coal Tar Sealants		
SS12	Mitigation of Heat Island Effect		
SS13	Reduction of Light Pollution	X	E Series sheets.
SS14	Mitigation of Transportation Impacts		
SS15	Site Construction Waste Management Plan		
SS16	Soil Amendment		
SS17	Bird Friendly Materials		
SS18	Declining Species Support		
SS19	Allowable Pesticides		
	Quantity of Required Provisions	**4**	
	Quantity of Provided Provisions	**4**	

Chapter 6: WATER EFFICIENCY [WE]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
WE01	Site Water Use Reduction	X	Irrigation plan
WE02	Site Water Use Reduction - Stretch		
WE03	No Irrigation		
WE04	Building Water Use Reduction		
WE05	Special Water Features		
WE06	Water Consumption Measurement		
WE07	Reverse Osmosis Water Treatment		
WE08	On-Site Graywater Systems		
WE09	Dual Water Supply Plumbing		
WE10	Drought Preparedness		
	Quantity of Required Provisions	**1**	
	Quantity of Provided Provisions	**1**	

Chapter 7: COMMERCIAL ENERGY [CE]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
CE01	Reduced Air Infiltration		
CE02	Enhanced IECC C406 Credit Requirements		
CE03	Energy Consumption Management		
CE04	Demand Response		
CE05	Renewables Approach		
CE06	Battery Storage		
CE07	Building Envelope		
CE08	SHGC of Vertical Fenestration	X	G001 & A602
CE09	Orientations of Vertical Fenestration		
CE10	Minimum Equipment Efficiencies (HVAC)		
CE11	Ventilation Controls		
CE12	Duct Leakage Tests		
CE13	Economizers Minimum Equipment Performance Ratings (Air Conditioners and Heat Pumps)		
CE14	Fan System Power		
CE15	Exhaust Air Energy Recovery		
CE16	Duct Insulation		
CE17	Automatic Control of HVAC and Lights in Hotel/Motel Guest Rooms		
CE18	Equipment Efficiency (Service Water Heating)		
CE19	Insulation for Spa Pools		
CE20	High Output Service Water Heating Systems		
CE21	Drain water heat recovery		
CE22	Interior Lighting Power Densities (LPDs)		
CE23	Exterior Lighting Power Densities (LPDs)		
CE24	Horticulture Lighting		
CE25	Lighting Controls		
CE26	Kitchen Exhaust Systems		
CE27	Supermarket Heat Recovery		
CE28	ENERGY STAR Rqmts for Equipment not Covered by Federal		
CE29	ENERGY STAR Rqmts for Equipment Covered by Federal		
CE30	Energy Monitoring		
CE34	Reserved		
CE35	Zero Net Energy Approach		
CE36	Commercial Passive House Approach		
	Quantity of Required Provisions	**1**	
	Quantity of Provided Provisions	**1**	

Chapter 8: INDOOR ENVIRONMENTAL QUALITY [EQ]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
EQ01	Indoor Air Quality	X	M Series Sheets
EQ02	Minimum Ventilation Rates		
EQ03	Outdoor Air Delivery Monitoring		
EQ04	Filtration and Air Cleaner Requirements		
EQ05	Building Pressure - Mechanical Exhaust		
EQ06	Humidity Control		
EQ07	Building Entrances		
EQ08	Thermal Environmental Conditions for Human Occupancy		
EQ09	Acoustical Control		
EQ10	Soil-Gas Control		
EQ11	Lighting Quality		
EQ12	Moisture Control (Envelope)		
EQ13	Glare Control (Manual)		
EQ14	Glare Control (Automatic)		
EQ15	Materials (Emissions)		
EQ16	Daylighting		
	Quantity of Required Provisions	**1**	
	Quantity of Provided Provisions	**1**	

Chapter 9: MATERIALS AND RESOURCES [MR]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
MR01	Building Construction Waste Management		
MR02	Embodied CO2e of concrete materials		
MR03	Embodied CO2e of steel materials		
MR04	Refrigerants	X	M600
MR05	Storage Areas and Collection of Recyclables	X	
MR06	Mercury Content Levels of Lamps	X	All fixtures LED per EOR.
MR07	Building Materials (Environmental Impacts)		
MR08	Design for Deconstruction		
MR09	Use of Salvaged Materials		
MR10	Design for Deconstruction - Dwelling Units and Accessory Structures		
	Quantity of Required Provisions	**3**	
	Quantity of Provided Provisions	**3**	

Chapter 10: CONSTRUCTION AND PLANS FOR OPERATION [CX]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
CX01	Functional and performance testing and commissioning		
CX02	Acoustical Control		
CX03	Building Project Commissioning Process + Documentation	X	G001
CX04	Erosion and Sedimentation Control (ESC) (during construction)	X	2023-EC-0000206
CX05	IAQ Construction Mgmt (during constr., incl. flush-out)		
CX06	Moisture Control (during construction)		
CX07	Construction Activity Pollution Prevention: Limits Idling of Construction Vehicles		
CX08	Construction Activity Pollution Prevention: Protection of Occupied Areas (contaminant entry into occupied buildings during construction)		
CX09	Soil-Gas Control (Testing) requires post-construction testing for radon in buildings.		
CX10	Construction Waste Management Plan		
CX11	Plans for Operation requires plans for building project operation. These plans are intended to help and encourage building owners and facility management staff to operate and maintain building projects in a manner, and at a performance level, as was originally intended by this code.		
CX12	Transportation Management Plan		
CX13	IAQ maintenance and monitoring		
CX14	Outdoor air ozone air cleaners		
CX15	Indoor Environmental Quality Assurance and Awareness		
CX16	Benchmarking Operational Water and Waste		
	Quantity of Required Provisions	**2**	
	Quantity of Provided Provisions	**2**	

Issue Record:

05/09/2024	PERMIT SET

Revisions:

2	09/09/2024	Revision 2

Drawn: JM — Checked: DG

Project No.: 05-5119

Contents:

DEC Compliance Checklist (Bldg Env)

G001.1

DENVER ENERGY CODE - COMMERCIAL COMPLIANCE CHECKLIST

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	CMG Denver Runway 35N 05-5119
Location:	Denver, Colorado
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	19%
Construction Site:	Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required - 10.0 Proposed
- Heat pump water heater, 5.0 credit
- 5% cooling efficiency improvement, 0.0 credit
- Enhanced envelope performance, 0.0 credit
- Reduced air infiltration, 4.0 credit
- Fault detection and diagnostics system, 1.0 credit

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	2400

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	208	---	15.0	0.520	0.520
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	2400	---	30.0	0.032	0.032
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1262	19.0	3.8	0.052	0.051
Window: Metal Frame with Thermal Break: Operable, Perf. Specs.: Product ID Solarban 70, SHGC 0.26, PF 0.51, VT 0.63, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	43	---	---	0.240	0.450
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.38, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	35	---	---	0.360	0.360
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	681	19.0	3.8	0.052	0.051
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.61, PF 0.51, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	21	---	---	0.630	0.630
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.61, PF 0.51, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	262	---	---	0.360	0.360
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.38, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	66	---	---	0.360	0.360
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1262	19.0	3.8	0.052	0.051
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	681	19.0	3.8	0.052	0.051
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	25	---	---	0.370	0.370
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.38, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	7	---	---	0.360	0.360
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	83	19.0	3.8	0.052	0.051

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carl Lingle — Name - Title
Carl Lingle — Signature
10/01/2024 — Date

LICENSED ARCHITECT — CARL L LINGLE — 306135 — STATE OF COLORADO

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 75.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1.1 [PR12][1]	Vertical Fenestration Area Allowance: A maximum of 40 percent of gross above-grade wall area is permitted to be vertical fenestration area provided >= 50 percent of the conditioned floor area is within a daylight zone, daylight responsive controls are installed, and glazing assemblies within the scope of NFRC 200 have visible transmittance >= 1.1 times SHGC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1.2 [PR13][1]	A maximum of 6 percent of roof area is permitted to be skylight area provided daylight responsive controls are installed in daylight zones under skylights.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NA
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4][1]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2.1 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C105 [FO3][1]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [FO7][1]	Slab edge insulation depth/length. Slab insulation extended away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][1]	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.3 [FR10][1]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.5 [FR14][1]	U-factor of opaque swinging and nonswinging doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.3 [FR19][1]	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.4 [FR18][1]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][1]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.7 [ME58][1]	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.9 [ME144][1]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][1]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116][1]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][1]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][1]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3 C403.11.3.1, C403.11.3.2 [ME123][1]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][1]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.8 [EL27][1]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][1]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][1]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][1]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][1]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3][1]	Roof insulation installed per manufacturer's instructions and is labeled with R-value or insulation certificate providing R-value and other relevant data. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN20][1]	Roof assembly meets minimal thermal resistance installed between roof framing or in a continuous fashion on the roof assembly as stipulated in Table C402.1.3. Requirements for above deck insulation, minimum thickness, suspended ceilings, staggered joints and skylight curbs will be met.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C105 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8][1]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][1]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C105 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C401.3 [FI58][1]	A thermal envelope certificate will be supplied and completed by an approved third party.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.10 [FI26][1]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.8 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.3 [FI11][1]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406.2.2 [FI66][1]	5% cooling efficiency improvement - all HVAC and Plant cooling equipment is 5% more efficient than required by 2021 IECC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.7.4 [FI53][1]	Reduced energy use in service water heating - the hot water system is served by heat pump water heaters with a minimum Energy Factor of 3.0. The heat pump does not draw conditioned air from within the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.8 [FI68][1]	Enhanced envelope performance - the building thermal envelope UA value is >= 15% better than the total UA of the envelope specified by Section C402.1.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.9 [FI56][1]	Reduced air infiltration energy - the measured air-leakage rate of the building envelope is lower than 0.25 cfm/ft2. Comprehensive report documentation will be submitted to the code official and the building owner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.11 [FI64][1]	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

DENVER ENERGY CODE - COMMERCIAL COMPLIANCE CHECKLIST





May 06, 2024

Denver Plan Reviewer
Development Services
201 W. Colfax Ave.
Denver, CO 80202

RE: 8968 E 46th Avenue Denver, Colorado
Commissioning Requirements

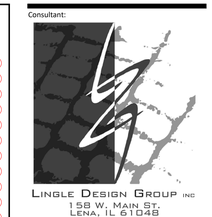
The following letter is submitted as required per section D of the City and County of Denver Permit Submittal Requirements to Document Compliance with the IECC memo dated December 5, 2023. This project requires commissioning in accordance with section C408.2 of the 2021 International Energy Conservation Code (IECC), including Denver specific amendments set forth in 2022 DEC because the combined space heating and service water heating capacity is over 600,000 BTUH. Lighting Controls verification is not required because the building is below 10,000 square feet and less than 10 kw proposed installed wattage.

1. **Project Address and Log #**
   8968 E. 46th Avenue
   Denver, CO 80238
   Log # TBD
2. **General Contractor:**
   Company: To Be Determined
   Address: To Be Determined
3. **Approved Agency, Commissioning Agent:**
   Ramirez, Johnson & Associates, LLC
   -Eric Johnson, CxA, License 510-665,
4. **Signature of the Project Owner**
   Noted Below

Project Owner – Signature

Project Owner – Printed

Consultant:



LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
303.974.5873
WWW.LINGLEDESIGN.COM

LICENSED ARCHITECT — CARL L LINGLE — 306135 — STATE OF COLORADO

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STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

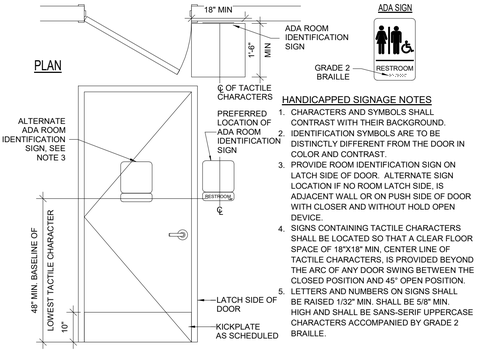
3	10/01/2024	Revision 3

Drawn: JM Checked: JK

Project No.: 05-5119

Contents: ComCheck

G001.2



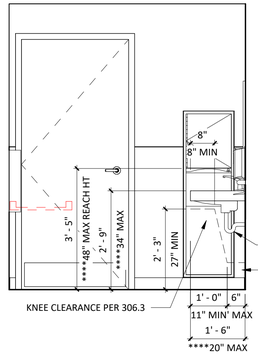
HANDICAPPED SIGNAGE NOTES

1. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
2. IDENTIFICATION SYMBOLS ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.
3. PROVIDE ROOM IDENTIFICATION SIGN ON LATCH SIDE OF DOOR. ALTERNATE SIGN LOCATION IF NO ROOM LATCH SIDE, IS ADJACENT WALL OR ON PUSH SIDE OF DOOR WITH CLOSER AND WITHOUT HOLD OPEN DEVICE.
4. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"X18" MIN, CENTER LINE OF TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45° OPEN POSITION.
5. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN. SHALL BE 5/8" MIN. HIGH AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.

PER ICC A117.1

7 G002 RESTROOM SIGNAGE DETAIL

1/2" = 1'-0"



****48" MAX PER 2017 ICC A117.1 FIG. 308.2.2 (A) OBSTRUCTED HIGH FORWARD REACH.

Note: Based on lav max depth 20"

*****34" MAX PER 2017 ICC A117.1 FIG. 606.3 HT OF LAVS & SINKS

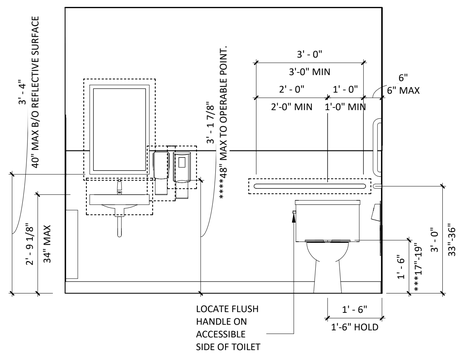
******48" MAX PER 2017 ICC A117.1 603.6 & TABLE 603.6

PROTECT PIPES AGAINST CONTACT PER 606.6

TOE CLEARANCE PER 306.2.5

5 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"



***17"-19" PER 2017 ICC A117.1 FIG. 604.4 (D) WATER CLOSET SEAT HEIGHT.

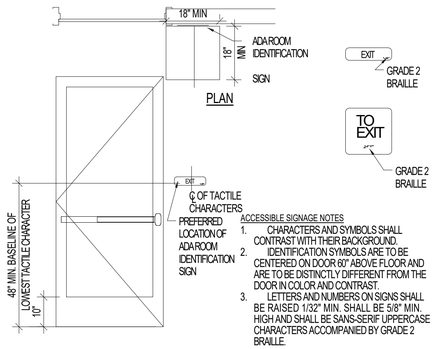
The height of the water closet seats shall be 17" min and 19" max above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

****48" MAX PER 2017 ICC A117.1 FIG. 308.2.2 (A) OBSTRUCTED HIGH FORWARD REACH.

Note: Based on lav max depth 20"

2 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"

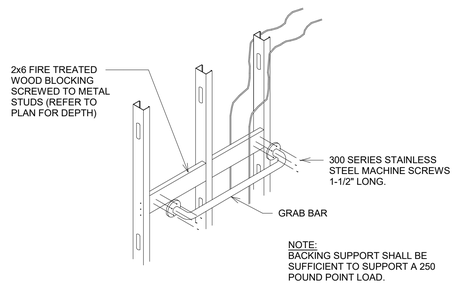


ACCESSIBLE SIGNAGE NOTES

1. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
2. IDENTIFICATION SYMBOLS ARE TO BE CENTERED ON DOOR 60" ABOVE FLOOR AND ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.
3. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN. SHALL BE 5/8" MIN. HIGH AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.

8 G002 EXIT SIGNAGE DETAIL

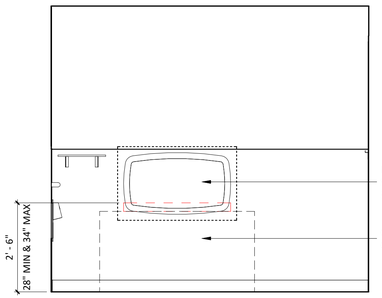
1/4" = 1'-0"



NOTE:
BACKING SUPPORT SHALL BE SUFFICIENT TO SUPPORT A 250 POUND POINT LOAD.

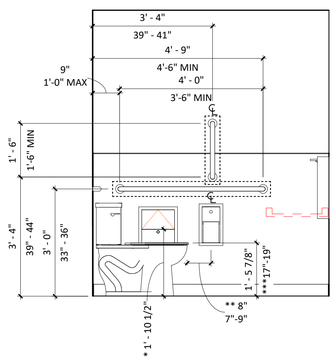
6 G002 TYP. GRAB BAR ATTACHMENT DETAIL

1/2" = 1'-0"



3 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"



*18" MIN PER 2017 ICC A117.1 FIG. 604.7.1 (C) DISPENSER OUTLET LOCATION RECESSED DISPENSER

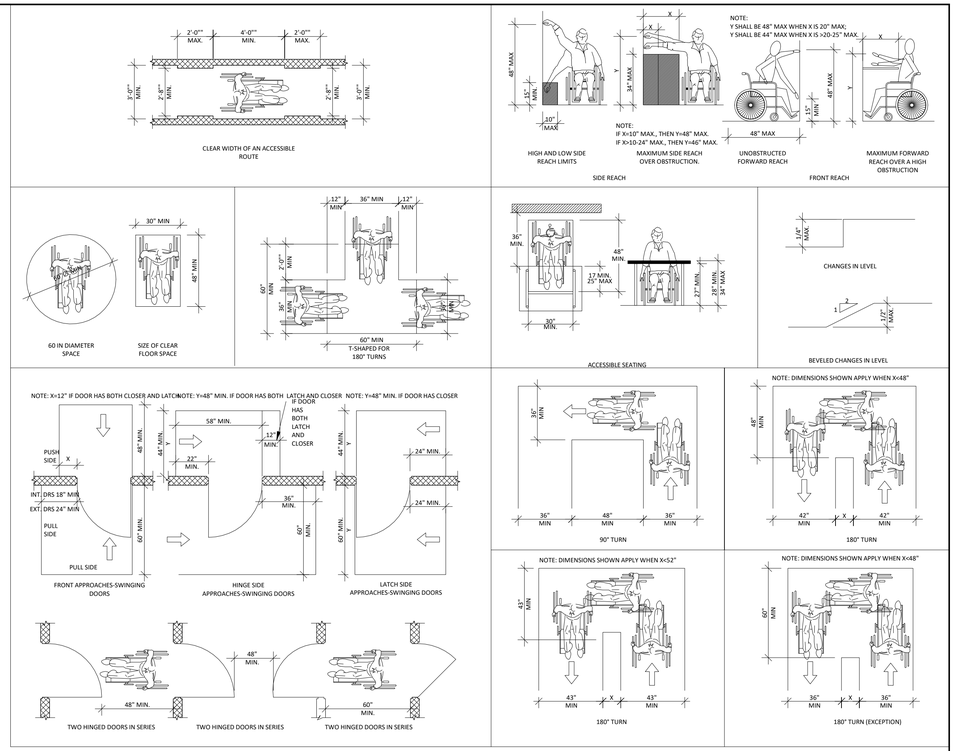
**7"-9" PER 2017 ICC A117.1 FIG. 604.7.1 (D) DISPENSER OUTLET LOCATION IN FRONT OF WATER CLOSET - EXCEPTION

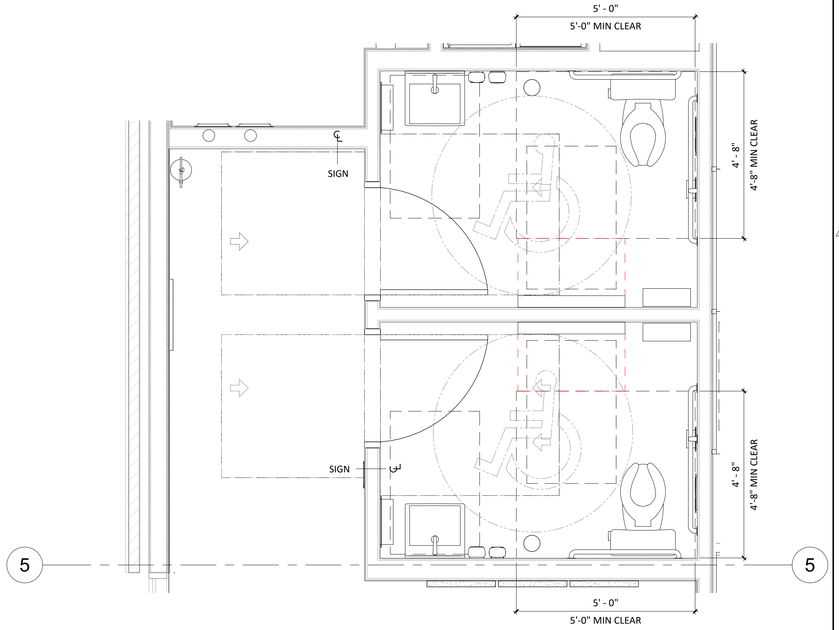
***17"-19" PER 2017 ICC A117.1 FIG. 604.4 (D) WATER CLOSET SEAT HEIGHT.

The height of the water closet seats shall be 17" min and 19" max above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

1 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"





9 G002 RESTROOM ACCESSIBILITY PLAN

1/2" = 1'-0"

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LICENSED ARCHITECT
CARL L LINGLE
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DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

Drawn: EYW
Checked: CL

Project No.: 05-5119

Contents:

ACCESSIBILITY REQUIREMENTS

G002

June 16, 2023

Tony Pierangeli and Erik Christopher
Email: Tony.Pierangeli@SRSRE.com; Erik.Christopher@SRSRE.com

Re: Proposed Ground Lease Agreement between Chipotle Mexican Grill, Inc. ("Tenant") and Runway 35 North LLC ("Landlord") for premises located at Runway North at Central Park Blvd. and I70, Stapleton, CO (the "Premises")

Dear Tony and Erik:

I wish to convey Tenant's interest in leasing the above-referenced Premises.

This letter summarizes recent discussions to lease the Premises; it is not intended to be contractual in nature, but only expresses the basis upon which we would be interested in negotiating a long-term Lease. The undersigned acknowledges that this letter is intended to outline initial terms for consideration only and that no party shall be obligated contractually hereunder unless and until a mutually satisfactory Lease agreement is fully executed by, and delivered to, all parties.

Landlord:	Runway 35 North, LLC
Tenant:	Chipotle Mexican Grill, Inc.
	Chipotle Mexican Grill, Inc.
Guarantor:	Chipotle Mexican Grill, Inc., for leases where the Tenant is not Chipotle Mexican Grill, Inc.
Premises:	Pad 10B in the Runway North shopping center, approximately 0.80 acres of land shown on **Exhibit A** ("Site Plan").

{04356406 / 1}C:\Users\MW\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\D1754T4Y\Chipotle\LOI_Curb-In_Runway35N_071323(LC-Redline).docxW:\rwdocs\forms\CHIPOTLE\00089092.DOC

Term:	Primary Term: A Twenty (20)-year period commencing on the Rent Commencement Date Extended Terms: Four (4) five (5)-year terms, each commencing on the expiration date of the immediately preceding Primary Term or Extended Term. Provided Tenant is open for business and there has not been a default or breach of the Lease beyond any applicable cure period. Tenant may exercise its option to extend the Term for an Extended Term by providing written notice to Landlord at least 180 days prior to the expiration of the then-current Term. Landlord shall provide notice to Tenant prior to the forfeiture of extension options.
Minimum Rent:	Years 1-5: $145,000 per year with 10% increases every 5 years thereafter, including option periods.
Expenses:	Beginning on the Possession Date, Tenant shall self-maintain and insure the Premises. Tenant will directly pay all taxes and assessments as well as all utilities pertaining to the Premises. Additionally, Tenant will pay its *pro rata* share of the Premises' common area maintenance expenses under the COREA, which are estimated to be $250.00 per month.
Security Deposit:	None.
Percentage Rent:	None.
Merchant's Ass'n:	None.
Advertising/ Grand Opening Fees:	None.
Possession Date:	The later of (a) the earlier of (i) expiration of the Permit Contingency or (ii) the date upon which Tenant obtains its building permits, or (b) substantial completion of Landlord's Work to Tenant's reasonable satisfaction (excluding utilities, irrigation, landscaping and delayed improvements for utilities) and Landlord's improvements (excluding utilities, irrigation, landscaping and delayed improvements for utilities) in the Common Areas that are necessary for Tenant to commence construction on its building.. Tenant acknowledges that there are a few items of Landlord Work (including utilities, irrigation, landscaping, and delayed improvements for the utilities) that is dependent upon Tenant's completion of some of Tenant's Work and will be completed

after the Possession Date. Tenant agrees to commence its work at a mutually agreeable time after receipt of Tenant's building permits and after the Possession Date. Landlord shall complete the remaining items of Landlord Work (including utilities, irrigation, landscaping, and delayed improvements for the utilities) as soon as reasonably possible after Tenant has completed the necessary items to allow for Landlord to complete Landlord's Work.

Rent Commencement Date:	The earlier of (a) Tenant's opening in the Premises or (b) One hundred eighty (180) days after Possession Date (the "Build Out Period").
Landlord's Work:	Landlord shall provide improvements to the Premises outside of the Building Envelope at Landlord's cost and expense in accordance with the Landlord's Work Exhibit attached hereto as **Exhibits, C** and **C-1**, subject to approval by the city, city inspectors, and the Central Park Design Review Committee. Landlord and Tenant acknowledge that Landlord's Work is dependent on Tenant obtaining building permit completing some of Tenant's Work and providing documents to Landlord in a timely manner for permitting approvals, including but not limited to architectural elevations, and utility information and applications; including, but not limited to Xcel applications.
Tenant Improvement Allowance:	None.
Patio Area:	Tenant shall be allowed to create a patio area for Tenant's exclusive use, with tables, chairs, umbrellas, lights, and railings, of not less than 350 square feet. Tenant shall not be obligated to pay additional rent for the use of the patio area.
Permitted Use:	Within 120 days following the Rent Commencement Date, Tenant will open and operate for 1 day as a "Chipotle" restaurant serving specialty burritos, quesadillas, tacos and other items generally served in a "Chipotle" restaurant, including alcoholic beverages. After opening for 1 day as a "Chipotle" restaurant, Tenant may change its use to any other lawful retail or restaurant purpose, subject to the COREA.
Exclusive Use:	Following the waiver of all Lease contingencies Landlord shall record a COREA Supplement restricting any other property within the Shopping Center from the primary (defined as cumulative sales of the following items in excess of 20% of gross sales) sale of burritos, Mexican wraps, quesadillas or tacos, excluding existing tenants with leases at shopping center

Contingency:	[Raising Canes, In-N-Out, PNC Bank, Chili's, SCL Health, Dutch Bros, Superstar Car Wash, GO Church, The Gardner School, and pending [CAVA]] ("Exclusive Use"). Tenant's Exclusive Use shall not apply to businesses selling tacos and /or burritos, or quesadillas on an incidental basis (cumulative sales less than 20% of gross annual sales), or to a full-service sit-down restaurant. Tenant may terminate the Lease if it is unable to obtain its necessary and required building, patio area, and signage permits and approvals, and a liquor license, on or before the date which is 180 days after the later of (a) Tenant's receipt of Landlord's approved City Site Development Plan or (b) Lease Execution [*LL will approve Tenant's Plans during the lease negotiation process.*] ("Permit Contingency"). If Tenant is unable to obtain its permits during the Permit Contingency, Tenant shall so notify Landlord and Landlord shall have the right, but not the obligation, at no cost to Landlord, to attempt to, for a period of 180 days obtain Tenant's permits on Tenant's behalf.
New Construction by Landlord *Contingency	Landlord has not completed its draft Site Development Plan for the Premises. Landlord agrees to provide Tenant with its draft Site Development Plan for the Premises and standard signage specifications for the Shopping Center (collectively, "Landlord's Draft Site Development Plan") prior to Lease execution. Tenant shall have fourteen (14) days from receipt of Landlord's Draft Site Development Plans to approve Landlord's Draft Site Development Plan. Landlord agrees to provide Tenant with its full set of horizontal construction drawings, including an approved Site Development Plan, within sixty (60) days of receiving the required approvals on Landlord's Draft Site Development Plan. [*Tenant's termination rights relating to the SDP will extinguish once it has approved the Draft SDP unless there are substantial, material changes during the city approval process.*]
Coordination of Work	Assuming the costs are reasonable and customary, Landlord and Tenant agree to use the same general contractor, utility project manager and architect for their respective work, pursuant to individual agreements between each of Landlord and Tenant and the chosen service providers. As such, Tenant and Landlord shall instruct their service providers to work cooperatively during the construction period in an effort to maximize efficiency and reduce the time frame between lease execution and the completion of all work at the Premises. If Landlord and Tenant cannot agree on final general contractor prior to expiration of the

Permit Period, then an amendment to the work letter will be needed.

Commented [MW1]: Because of City of Denver requirements, the Landlord cannot complete the scope in the workletter unless Tenant and Landlord use the same contractor. For example, the City will not allow a site contractor to bring the utilities to the building pad. Only the contractor completing the building can do that work. So we need to work together to use the same contractor.

SNDA:	Contemporaneously with the Lease execution, Landlord, Tenant and lender will agree upon and execute a SNDA in the form that shall be attached to the Lease. Tenant shall not be required to subordinate to any future lender unless Tenant receives a commercially reasonable non-disturbance agreement from such lender substantially similar or identical to that attached to the Lease. (Tenant is responsible for its legal expenses)
Environmental:	To be addressed in the Lease.
Assignment/Subletting:	Tenant shall not be required to seek or obtain Landlord's consent, nor shall Landlord be entitled to any consideration in connection with, any assignment or subletting: (1) to a parent, subsidiary, affiliate, bona fide Chipotle franchisee, licensee, or similarly related entity (2) in connection with a merger, acquisition, reorganization or consolidation; or (3) in connection with the sale of Tenant's corporate stock or assets (1), (2), and (3) are collectively, a "Permitted Assignment". No Permitted Assignment releases the originally named Tenant and Guarantor(s) or any party effecting the Permitted Transfer from Liability under the Lease All other assignments or subleases shall require Landlord's prior consent, not to be unreasonably withheld or conditioned. In all of the above scenarios, Tenant and Guarantor remain liable for performance under the terms of the Lease. Per Falcon lease, Article 18.
Go Dark:	After Tenant has opened for 1 day as a "Chipotle" restaurant, Tenant shall not be required to continuously operate at the Premises; however, Tenant shall continue to pay rent and other charges as the same become due. Should Tenant Go Dark in the Premises during the Primary Term for any reason other than a casualty or for remodeling (neither to exceed 180 days), Landlord shall have recapture rights with thirty (30) days written notice to Tenant and opportunity to re-open in the Premises. If Tenant does not re-open in the Premises within said thirty (30) day period, Landlord may terminate the Lease and receive from Tenant reimbursement for unamortized commissions. In no

event shall Tenant be required to operate on any major holidays recognized by Tenant, including but not limited to, New Year's Day, Easter Sunday, July 4th, Thanksgiving and Christmas.

Radius Restriction:	None.
Relocation:	Landlord shall not have the right to relocate Tenant.
Default:	1. Monetary default – Tenant must be given ten (10) days written notice and opportunity to cure. As further defined in the Lease. 2. Non-monetary default – Tenant must be given thirty (30) days written notice and opportunity to cure. As further defined in the Lease.
Indemnification:	Mutual indemnification to be addressed in the Lease.
Insurance:	Tenant shall have the right to self insure with respect to its insurance coverages. To be reviewed by Landlord's attorney in during the lease negotiations, net worth and other requirements will be required.
Brokers:	Kyle Underwood with Legend Partners, LLP is representing Tenant as Agent ("Tenant's Broker"), and Landlord shall pay a brokerage commission to Tenants Broker per a separate agreement to be paid 50% upon Lease Execution and waiver of contingencies and 50% upon Tenants opening for business. Tenant acknowledges principals of the Landlord are licensed real estate agents. Tenant acknowledges that Landlord or its related parties are licensed real estate brokers in the state of Colorado.
Landlord's Lien:	Landlord shall waive all statutory and/or contractual liens against Tenant's property.
Co-Tenancy Requirements:	None
Zoning, Parking, ADA:	To be addressed in the Lease Landlord shall provide four (4) non-exclusive take-out parking stalls located as close as possible to the front door of the Premises and exit of the Chipotlane. Tenant shall have the right at its expense to post Landlord approved signs on such parking spaces.
EV Charging:	The City of Denver requires this development to have Electric Vehicle Supply Equipment ("EVSE") infrastructure. Landlord

will procure and install required EVSE conduit per code requirements and the work letter as approved by Tenant on Landlord's Plans and Tenant will be responsible for procurement and installation of all EV charger wiring and EV charging units. Tenant shall also be responsible for its contract and all costs associated with any 3rd party vendor to install, operate, and maintain the actual EV chargers. Landlord shall not be responsible for any procurement, installation, or maintenance costs associated with any wiring or EV charging unit.

Utilities & Trash:	Landlord shall provide to the Premises adequate utilities required for Tenant's permitted use in accordance with Exhibit C as soon as reasonably possible after Tenant has received its building permit. Landlord shall be responsible for all utility hook-up, tap, impact, lateral, system development and other fees and costs pertaining to the utilities. However, Tenant acknowledges that Landlord will not be able to deliver the utilities as provided in Exhibit C until Tenant has received permit and initiated some of Tenant's Work to accept the utilities.. Landlord shall provide Tenant a credit per Exhibit C, for providing concrete pad and foundation to accommodate Tenant's trash dumpster enclosure for Tenant's -exclusive use in accordance with Exhibit C and Tenant shall contract independently for its trash removal service. Tenant shall be responsible for constructing the trash dumpster enclosure itself.
Signage:	Subject to applicable laws, Central Park Design Review Committee approval and the Comprehensive Signage Plan for the Shopping Center, Tenant shall be allowed to install standard "Chipotle" signage on its building and have the right to the Lot 10B panel outlined in red on Joint ID Sign A2- -A on Central Park Blvd and the panel outlined in red on Highway Sign A4, as shown on Exhibit "D" subject to paying its prorate share of the costs to design and construction this shared sign.
Landlord's Repairs/Maintenance and Tenant's Repairs/Maintenance:	None. Tenant will self-maintain the Premises (land and building) Per Falcon lease. Landlord shall be responsible for repairing and correcting any latent defects to the Premises when and as discovered by Tenant within one (1) year from the Possession Date..
Tenant's Trade Dress:	Subject to Landlord and all governmental approvals and after initial construction, Tenant shall be permitted to alter the exterior of the Premises to exhibit Tenant's trade dress. Tenant shall be allowed to incorporate its standard design and material elements in the store design and shall be allowed to relocate the existing

doors and incorporate its standard wide stile glass doors with wood handles or hollow metal doors in the Premises.

Alterations:	Tenant may, from time to time during the term of the Lease, make interior, non-structural alterations to the Premises without Landlord's consent, not to exceed $75,000.00.
Delivery of Landlord's Plans and other Deliverables:	*Tip to Landlord: Provide the items below ASAP for faster lease review and comments provided earlier rather than later in the lease negotiations.* Landlord shall deliver to Tenant, within five (5) days of the date of the execution of this letter, Landlord's CAD and blue-line drawings or Landlord's as-built drawings for the Premises. Tenant acknowledges that Landlord does not have fully approved drawings. Landlord shall also provide to Tenant within such five (5) day period copies of the most recent: (i) environmental and soils report, (ii) Owner's Title Insurance Policy, (iii) site survey showing the location of the Premises within the Center and (iv) any CC&R, REA, OEA, COREA, or other similar documents relating to the Shopping Center. Landlord shall furnish complete information regarding existing and proposed grades and locations, sizes, elevations, flow lines and pressures, as applicable, for all utilities mains which are to be extended to serve the Premises. Tenant shall work with Landlord so that Landlord can complete the utility deliveries after the Possession Date and after Tenant has initiated construction.
Tenant's Plans:	Tenant shall submit its plans and specifications for Tenant's initial improvements to Landlord for approval. Landlord shall approve or disapprove same (with specific reasons and instructions regarding any disapproved matters) within ten (10) days or the same shall be deemed approved.
Force Majeure	Any prevention, delay or stoppage due to strikes, lockouts, labor disputes, acts of nature, inability to obtain labor or materials or reasonable substitute therefor, governmental restrictions, regulations or controls, enemy or hostile governmental action, riot, civil commotion, fire or other casualty, Pandemic and Epidemics (as defined below) or other reason beyond the reasonable control of the party obligated for performance (financial inability excepted) (collectively, any "Force Majeure Event"), shall excuse the performance by such party for a period equal to any such

Consultant:
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TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:
05/09/2024 PERMIT SET

Revisions:

Drawn: EYW
Checked: CL

Project No.
05-5119

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G003

prevention, delay or stoppage, except as otherwise stated in this Lease to the contrary. However, except as expressly set forth below, a Force Majeure Event shall not delay or extend the Rent Commencement Date or excuse the payment of any monetary obligation under this Lease.

FORCE MAJEURE SECTION PER ARTICLE 33 OF FALCON LEASE.

Lease Form: The Lease shall be on Tenant's form which will substantially conform to the Lease between Tenant and Evergreen-Meridian & Woodmen, L.L.C. ("Conforming Lease"), excepting site, deal, and LOI-specific items. .

This letter is intended to reflect the intention of the parties to enter into and document a business relationship. However, the parties agree that the terms and conditions set forth herein shall not constitute a final or binding agreement between them until a formal legal document has been prepared and executed by both parties. THIS LETTER IS NOT A CONTRACT.

If the foregoing is acceptable, please execute one of the enclosed copies of this letter where indicated below and return one (1) fully executed copy to me. Thereafter, Tenant's attorneys will prepare and forward to you a Lease draft for your review and approval.

We look forward to finalizing this transaction. Please call if you have questions.

Sincerely,

_____

Agreed and Accepted this ____ day of _____, 2023.

LANDLORD:

Runway 35 North, LLC

By: _____

Title: Principal Agent

TENANT:

By: Corey Jones

Title: Principal, Real Estate, Chipotle Mexican Grill, Inc.

EXHIBIT A – Site Plan- Please review LL site plan comments

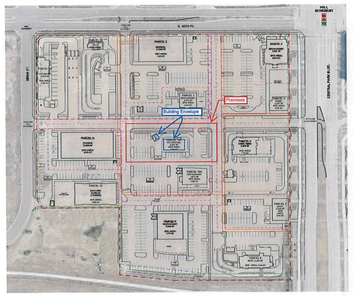


EXHIBIT C – LANDLORD WORK LETTER

Landlord shall complete the following work and furnish Tenant with certifications thereof and in accordance with the following **"Landlord's Work"**. Landlord shall be responsible for construction and completion of all site improvements around, to, and on the Premises as detailed in this Exhibit, Landlord's plans and Tenant's Utility Exhibit (PLEASE PROVIDE). Landlord's work shall include, but not be limited to the following, all plans and approvals (including site plan), as well as fees associated with said work. Tenant acknowledges that Landlord will not be able to deliver the utility connections and site improvements associated with the utility connections until after the Possession Date, and after Tenant has received building permit and provided utility improvements associated with the building constructions. In no event shall these items delay the Possession Date. Additionally, landscaping and irrigation improvements may be delayed due to seasonal planting timeframes. However, Landlord will provide surety for any of these improvements as required by the governmental authorities to ensure their ultimate completion.

GRADING

- Landlord shall demolish and remove all existing improvements on and under the Premises to include rock and deleterious materials.
- The building envelope ("Building Envelope") shall be accessible by grade level parking only; steps and stairs are not permitted.
- Upon completion of Landlord's Work, Landlord shall furnish to Tenant a surveyor's written certification stating that the Premises is at the elevation prescribed on the Civil Plans within the stated tolerance of plus or minus one-tenth of a foot. This certification shall be based upon an "as prepared" survey which shall accompany such certification and shall show thereon elevation shots taken on a 50-foot grid minimum including pad perimeter and building corners. Promptly upon completion of Landlord's Work, Landlord shall cause its surveyor or engineer to designate the corners of the land by means of standard surveying markers. Landlord covenants that the condition of the Premises shall not be altered between the date of such certification and the delivery of exclusive possession of the Premises to Tenant.

COMPACTION

- Landlord shall complete compaction of the Premises and Building Envelope in accordance with the appropriate engineering standards and building code requirements, so that the Building Envelope shall be graded within 1/10 of a foot of 6 inches below the finished floor grade elevation of Tenant's Building, or as per Landlord's grading plan as to enable Tenant to construct its improvements in accordance with its plans, with spread footings and without necessity of pilings or other extraordinary foundation work. The premises soil shall have a minimum bearing capacity of 2,500 pounds per square foot or per Landlord's geotechnical report. Tenant shall provide notice to Landlord of their FFE within 60 days of lease execution.

- No fill anticipated on this site. If fill is required, all fill material shall be of select grade per Landlord's geotechnical report, and sources for acquisition of fill material, as well as locations for cut material, must be identified.
- Landlord shall at its expense have an independent professional soils engineering test laboratory monitor the preparation of the Premises and, upon completion of Landlord's work, Landlord shall furnish Tenant a written certification from such independent laboratory verifying compliance with the foregoing requirements of this section. This certification shall include the results of all compaction and other tests performed prior to the date of such certification. A copy of such certification shall be delivered to the Tenant's construction representative.

UTILITIES

- Tenant shall provide for any temporary utilities for use by Tenant in its construction of the improvements.
- **Sanitary Sewer:** Subject to local codes and authorities, Landlord shall provide a 4" minimum sanitary sewer line stubbed from the main to five (5) feet inside of Tenant's Building Envelope, and includes a wye with connections to the building sewer and grease interceptor outfall at a location designated by Tenant per Tenant's Utility Exhibit attached as **Exhibit** C-1 ("Tenant's Utility Exhibit"). Said sanitary sewer lines shall have a minimum invert elevation of sixty (60) inches to a point as noted in Tenant's Plans. The exterior code-compliant grease interceptor shall be for Tenant's exclusive use. Grease interceptor shall be a minimum capacity of 1,500 gallons or sufficient to meet local code for Tenant's Use, whichever is greater. Invert of line as necessary to accommodate grease interceptor installation requirements of Tenant. Tenant acknowledges that Landlord's installation of the grease interceptor is subject to Tenant's Building Plan approval. in order for Landlord to install the grease interceptor. All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord.
- **Domestic Water:** Subject to local codes and authorities, Landlord shall install 1.5" domestic water service line from Landlord installed meter pit to Tenant's building envelope, at a location designated by Tenant per Tenant's Utility Exhibit. Said water line shall be copper with a minimum of 45 gpm at 60 psi. All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord for up to a 1.5 inch meter. Any costs above 1.5 inch meter shall be paid by Tenant. Tenant acknowledges that Landlord cannot deliver these improvements until after the Possession Date and Tenant has obtained its building permit and may need to complete some of Tenant's Work.
- **Irrigation Water:** Subject to local codes and authorities, Landlord shall furnish and install an irrigation water supply line routed to a location within the property as determined

by Landlord and Tenant in accordance with Landlord's plans for the property. Irrigation shall tee off the Domestic Water line on the building side of the water meter pit.

- **Fire Sprinkler Line:** Subject to local codes and authorities, If required and subject to Tenant timely securing its building permit, Landlord shall provide a Fire Sprinkler main line, as required by local code, connected to the public water main and stubbed five (5) feet inside of Tenant's Building Envelope at a location designated by Tenant per Tenant's Utility Exhibit. Fire Sprinkler main line shall be sufficient in size and water flow capacity to supply the Fire Sprinkler needs of Tenant's building. Any required detector check valves, vaults, post indicator valves, and siamese hose connections are to be included in Tenant's scope of work. Tenant acknowledges that Landlord cannot deliver these improvements until after the Possession Date and Tenant has obtained its building permit as Tenant must have building permit and may need to complete some of Tenant's Work.
- **Electrical:** Landlord has installed an electric main in drive aisle adjacent to Premises. Landlord shall reimburse Tenant up to $25,000.00 of the cost paid to Xcel for Tenant to provide an electrical transformer and transformer vault, with one (1) four (4) inch conduit and any required spares, with pull rope from the transformer to within five (5) feet of Tenant's Building Pad as shown on Tenant's Utility Exhibit. Tenant shall timely apply to Xcel and shall coordinate with Landlord during Landlord's construction Tenant shall be responsible for the secondary wiring from the transformer to the building. The transformer shall be capable of providing for a 400-amp, 120/208 volt, 3-phase, 4-wire service. Any related electric utility company charges shall be paid by Tenant and reimbursed by Landlord per above. In the event that a substantive off-site improvement to the electric infrastructure is required, Tenant shall immediately notify Landlord of that and Landlord shall resolve at Landlord's cost and expense. The cost to bring electric from the main adjacent to the site to the building pad shall not be considered an off-site improvement. If Tenant elects to have an all-electric building (i.e. no gas), then Tenant shall be responsible for a transformer capable of providing 800 amp, 120/208 volt, 3 phase, 4 wire service.
- **Natural Gas:** Landlord has installed a Natural Gas main in drive aisle adjacent to Premises. Tenant shall timely apply to Xcel and shall coordinate with Landlord during Landlord's construction. Tenant agrees to coordinate with Xcel to provide natural gas piping, from the public main line to the Building. Landlord will assist Tenant as needed. Landlord shall reimburse Tenant up to $20,000.00 of the cost paid to Xcel for Tenant to install Natural Gas service Gas piping shall be sized for Tenant's requirements at a minimum of 1600 MBH natural gas service at 7 inch water column. Gas piping shall terminate at the location of the gas meter as indicated by Tenant's Utility Exhibit. All related natural gas utility company charges related to providing the line shall be paid by Tenant and reimbursed by Landlord per above. If Tenant elects to only install Electric and not Gas, then the reimbursement limit for Gas shall be added to the Electrical, and the reimbursement for Electrical shall increase to $45,000 max and for Gas it shall decrease to $0.00. In the event that a substantive off-site improvement to the natural gas infrastructure is required, Tenant shall immediately notify Landlord of that and Landlord shall resolve at Landlord's cost and expense. The cost to bring gas from the main adjacent to the site to the building pad shall not be considered an off-site improvement.

Consultant:

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
303.974.5873
WWW.LINGLEDESIGN.COM

LICENSED ARCHITECT
CARL L LINGLE
306135
STATE OF COLORADO

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DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

A. Contractor shall use the following Tenant provided documents in the negotiation and execution of the Work. Contact Tenant's office for copies of these documents:
1. Chipotle Instructions to Bidders.
2. Construction Contract for Chipotle Mexican Grill.

B. Definitions:
1. The term "Owner" used in these documents refers to the building Owner/Landlord.
2. The term "Tenant" used in these documents refer to the restaurant Tenant, Chipotle Mexican Grill, Inc.
3. The term "Contractor" used in these documents refers to the entity responsible for performing the Work under Construction Contract for Chipotle Mexican Grill.

1.2 Scope of Work:

A. The Work shall include construction of the site and building facilities as shown and specified in these Specifications and Drawings.

B. When required and necessary, the Tenant will provide a subsurface exploration report as an attachment the bidding documents.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

A. Immediately inform the Architect of discrepancies between the information indicated in the Contract Documents and existing project conditions, and of discrepancies between information indicated on the architectural, structural, mechanical, plumbing and electrical documents.

B. Prior to fabrication and installation of new components, field verify all existing and new dimensions and installation conditions that may affect the Work. Do not scale the drawings to establish locations of items that are not located using dimensions.
1. All dimensions are to rough face of stud or centerline of structure, unless otherwise indicated.
2. Verify that all Subcontractors have reviewed and coordinated locations of their equipment and furnishings exposed to view with the architectural drawings. Review questions with the Architect.

C. Coordinate new work indicated on the Contract Documents with new work that may be provided by the Owner and Tenant under separate contracts.

D. Coordinate the work of Vendors, Contractors and Subcontractors providing fixtures, furniture and equipment identified as "by Tenant" in these drawings and specifications.
1. Notify the Tenant in timely fashion if any problems develop with the performance of these Vendors, Contractors or Subcontractors.

E. Coordinate the scheduling, sequencing, and the work of all trades and Subcontractors to assure efficient and orderly sequences of installation of interdependent construction elements.

F. Verify that the utility requirement characteristics of operating equipment are compatible with the building utility services. Coordinate work of the various specification sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

G. Coordinate the installation and physical space requirements of plumbing, mechanical and electrical work that are indicated diagrammatically on the drawings. Follow routing shown for piping, ducts and conduit as closely as practical. Install runs parallel with and perpendicular to the line of the building. Utilize spaces as efficiently as possible to maximize accessibility for other work installation and for maintenance and for repair.
1. Conceal piping, ducts and conduit within the construction, except as otherwise indicated.
2. Coordinate locations of registers, fixtures and outlets with finish elements.

H. Coordinate completion and cleanup work of all trades and Subcontractors in preparation for Substantial Completion.

I. To minimize disruption of Tenant's activities after Tenant occupancy of the property, coordinate access to the property with the Tenant's Construction Manager for correction of defective work and work not in accordance with the Contract Documents.

1.2 Submittals:

A. Only when indicated in the specifications or drawings submit shop drawings, product data, and/or samples to the Architect, Design Manager, and Development Analyst for review. All submittals shall be made directly to the Architect by the general contractor. Only submittals for specified products will be accepted unless prior approval has been obtained for a substitution (refer to Section 01630).

Shop drawings: Submit electronic copies of each sheet of drawings. Shop drawings are original drawings prepared by the subcontractor or vendor for the purpose of conveying information to the Architect and/or Engineer on how a building element or product will be constructed in sufficient detail for the Architect and/or Engineer to determine compliance with the design intent.

In all cases one copy of the submittal shall be returned to the General Contractor. Electronic submittals for shop drawing or product data in either PDF or DWF format are acceptable for review. All submittals, regardless of format, must bear the General Contractor's stamp indicating the submittal has been reviewed and approved. Any submittal not meeting the requirements set forth will be rejected by the Architect.

Submittals shall be made with respect to the construction schedule to allow for adequate review time: allow (5) business days for review of submittals for any structural steel, canopies and trusses and allow (3) business days for review of submittals in all other divisions. Review timeline will commence from the time the submittal with General Contractor's approval stamp is received by the Architect, Design Manager, and Development Analyst.

1.3 Requests For Information

A. In the event that the general contractor, or a subcontractor, at any tier, determines that some portion of the drawings, specifications, or other contract documents requires a clarification or interpretation by the architect, the general contractor shall submit a Request For Information in writing to the architect in an electronic copy.

Requests for Information may only be submitted by the general contractor and may only be submitted to the architect. The general contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response is needed from the architect or the architect's consultants. In the Request for Information, the general contractor shall set forth an interpretation or understanding of the requirement along with an explanation of why such an understanding was reached.

B. The architect will review all Requests for Information to determine whether they are Requests for Information within the meaning of this term. If the architect determines that the document is not a request for information, it will be returned to the general contractor, un-reviewed as to content, for re-submittal in the proper form and in the proper manner.

Responses to Requests for Information shall be issued upon receipt, but no later that five (5) working days of receipt of the Request from the general contractor; unless the architect determines that a longer amount of time is necessary to provide an adequate response. If a longer amount of time is determined necessary by the architect, the architect will, within five (5) working days of receipt of the Request, notify the general contractor of the anticipated response time. If the general contractor submits a Request for Information on an activity with five (5) working days or less of float on the current project schedule the general contractor shall not be entitled to any time extension due to the time it takes the architect to respond to the Request provided that the architect responds within the parameters set forth above.

C. Responses to Requests for Information from the architect will not change any requirements of the contract documents. In the event that the general contractor believes that a response to a Request For Information will cause a change to the requirements of the contract documents, the general contractor shall immediately give written notice to the architect and the tenant stating that the general contractor considers the response to be a Change Order. Failure to give such written notice immediately shall waive the general contractor's (or any subcontractor's) right to seek additional time or cost under the Administrative Requirements of these contract documents.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

A. Perform all work in accordance with applicable local, state, and federal building codes, plumbing codes, mechanical codes, electrical codes, ordinances and rules and regulations governing food service establishments.

B. Comply with local, state and federal requirements governing accessibility.

C. Obtain all required demolition and erosion control permits required by authorities having jurisdiction.

1.2 Quality Control:

A. Maintain quality control over manufacturers, suppliers, products, services, site conditions and workmanship, to produce work of specified quality.

B. Comply with manufacturer's instructions and applicable trade standards.

C. Handle, install, connect, clean, condition and adjust products in strict accordance with manufacturer's instructions and complying with specified requirements.
1. Request clarification from the Architect before proceeding, where manufacturer's instructions conflict with the Contract Documents.

D. Comply with specified standards as a minimum quality for the Work, except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.

E. Perform work by persons qualified to produce workmanship of the specified quality. Secure products in place with positive anchorage devices designed, sized and installed to withstand stress, vibration, physical distortion or disfigurement.

F. All dimensions shall be considered "hold-to" dimensions unless indicated otherwise (e.g. minimum or maximum dimensions.)

1.3 Testing:

A. Employ and pay for the services of an independent testing laboratory to perform inspections, tests and other services when required.

B. Include inspection and tests as indicated in the specification sections, drawings, and as required by authorities having jurisdiction.
1. Test concrete in accordance with Section 03300 and drawing requirements.
2. Test structural steel in accordance with Section 05110 and drawing requirements.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

A. Codes and Standards: Provide temporary construction facilities and controls complying with all applicable local, State and Federal local laws, regulations and codes and utility company requirements.

B. Temporary Heating, Ventilating and Cooling:
1. Provide, pay for and maintain all temporary heating, ventilating and cooling equipment and facilities required during the progress of the work to protect materials, finished work, and equipment against damage from low and high temperatures and humidity.
2. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to damage or affect in any way the performance or quality of material and product stored in the building, in any temporary storage area, or any material or product incorporated into the work.
3. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to significantly slow or hamper effectiveness of workers and to provide suitable working conditions.

C. Temporary Electrical Lighting and Power:
1. Provide, pay for and maintain all temporary electrical service for lighting and power required during the progress of the work. Include all necessary wiring, fuses, disconnect switches, safety devices, junction boxes, panels, ground fault protections, and transformer if required. Include cost for providing temporary electric generators in the Contract Sum, if temporary electric service is not available for use during progress of the work.
2. Temporary service and lighting and power items and installations shall conform to the requirements of the NFPA National Electric Code and OSHA Occupational Safety and Health Act of 1970.

D. Water: Provide, pay for and maintain all temporary water required during the progress of the work. Include all necessary storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.

E. Temporary Toilets: Provide, pay for and maintain temporary toilet facilities for use by the Contractor, Contractor's employees and all Subcontractors and Subcontractors' employees. Comply with all local requirements for installation, use and maintenance of temporary toilet facilities.

F. Barriers and Enclosures:
1. Provide temporary construction barriers in accordance with project requirements. Exercise all necessary precautions to protect adjacent properties, outside project contact limits, during progress of the work. Take special precautions to avoid damage to existing overhead and underground utilities and services owned or operated by the Owner or by public or private utility companies.
2. Provide temporary weather-tight enclosures at exterior openings to provide acceptable working conditions and protection of materials and to allow for temporary heating, ventilating and cooling.

G. Field Office, Telephone and Email:
1. Provide and maintain a temporary field office at the project site during progress of the work. A designated area within the existing building will be available for use as a temporary field office. Verify area size and location with the Tenant.
2. Maintain copies of permits, approved shop drawings, specifications, addenda and record documents at field office.
3. Provide temporary telephone service and internet service with email and photo capabilities to field office throughout progress of the work.
4. Provide weekly photographic documentation of project progression to Tenant.

H. Safety and Security
1. Provide and maintain all necessary safety provisions for protection and safety of the project work, workers and general public.
2. Provide and maintain operable fire extinguishing devices in well-marked, accessible locations throughout the project. Provide types, quantities and locations in compliance with governing codes and ordinances.
3. Provide all necessary security barriers and enclosures to protect the work and Tenant's operations from unauthorized entry of persons, vandalism and theft. Provide doors, when required, with self-closing hardware and locks.

I. Cleaning
1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
   a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.

2. Dust Control:
   a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
   b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
   c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

A. Products, including materials, equipment and systems described in the Contract Documents establish the standards of required function, dimension, appearance, quality and performance of the Work. Base all bids on the "Standards" indicated.

B. Requests by the Contractor for changes in products, manufacturers, fabricators, suppliers, installers, and methods of construction required by the Contract Documents are considered requests for "substitutions." Substitutions will be considered only under the following conditions:
1. The indicated "Standard" cannot be provided within the Contract Time
2. The indicated "Standard" cannot receive necessary approval by the governing authority.
3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit as determined by the Architect.

C. Submit each request for substitution to the Architect. Identify the product, manufacturer, fabricator, supplier, installer or the fabrication or installation method to be replaced in each request. Identify related Specification Section and Drawing numbers. Provide documentation as directed by the Architect.

D. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate written request, when requested directly by subcontractor, manufacturer, fabricator, or supplier, or when acceptance will require substantial revision of the Contract Documents.

E. Substitute products, manufacturers, fabricators, suppliers, and installers shall not be used for the Project without Tenant and Architect's written acceptance.

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

A. Protection of existing construction: Use all necessary care and appropriate means and methods to protect and prevent damage to existing construction and property not part of the Contract Work. Repair and refinish or replace construction an property damaged during construction work, at Contractor's expense.

1.2 Selective Demolition: Provide selective demolition as shown and specified.

A. Preparation:
1. Coordinate work of this Section with work of various Contractors and Tenant's staff.
2. Maintain protected access at all times.
3. Erect and maintain weatherproof closures at exterior openings.
4. Erect and maintain dust-proof interior partitions to prevent spread of dust or fumes.
5. Erect and maintain barricades, enclosures, bracing, shoring, lights, warning signs and guards necessary for worker and public safety and protection of property.
6. Disconnect, remove and cap designated utility services. Identify and mark locations of disconnected and capped utilities at the project site and on Project Record Documents.
7. Notify and coordinate with the Tenant's Construction Manager and the building Owner for any demolition occurring outside the lease limit.
8. Coordinate hours of operation and construction access with the Tenant's Construction Manager and the building Owner.

B. Selective Demolition
1. Remove existing construction to accommodate new construction as indicated.
2. Perform selective demolition in an orderly, systematic and careful manner with least possible disturbance to public and adjacent property. Use of explosives is prohibited.
3. Immediately remove from the site and legally dispose of demolished materials, except as indicated otherwise. Do not burn or bury materials on the project site.

1.3 Cleaning

A. Final Cleaning: Perform final cleaning upon completion of project work.
1. Remove waste and surplus materials, rubbish, tools, equipment and temporary construction facilities from the site.
2. Clean exterior grounds; remove stains, spills and foreign materials from paved areas, power wash and sweep clean. Rake clean landscaped surfaces of the grounds.
3. Remove temporary protection and labels not required to remain.
4. Clean all finished surfaces. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign materials from exposed interior and exterior surfaces.
   a. Clean all plumbing, fire protection and electrical fixtures and equipment including ceiling area elevated ductwork and lighting fixtures.
   b. Clean permanent equipment filters and replace temporary disposable filters in mechanical units used during construction.
   c. Clean ducts, blowers and coils if mechanical units were operated without filters during construction.
5. Clean interior and exterior glazing and mirrors, polish transparent and glossy surfaces and clean floors with appropriate materials and equipment.
6. Remove waste, foreign material and debris from roofs, areaways and drainage systems.
7. Before Tenant occupancy, conduct an inspection, with the Tenant, of exposed interior and exterior surfaces at all work areas, to verify that the entire work is clean.

1.4 Starting and Adjusting:

A. Prior to Substantial Completion, coordinate the start-up, test and balance, placement in operation and adjustment all systems, controls and equipment to verify proper operation. All systems shall be complete and operating prior to final inspection.

1.5 Contract Closeout:

A. Operation and Maintenance Data: Submit one operation and maintenance manual, bound in 8-1/2" x 11" text pages, three D side ring capacity expansion binders with durable plastic covers.
1. Subdivide the binder contents internally with permanent dividers logically organized as described below. Provide tab titles clearly printed under reinforced laminated plastic tabs.
2. Provide a table of contents with each product or system description identified.
3. Provide a directory listing names, addresses, and telephone numbers of the project Architect/Engineer, Contractor, Subcontractors and major equipment suppliers.
4. Prepare operations and maintenance instructions arranged by system and subdivided by specification section. Identify names, addresses, and telephone numbers of project Subcontractors and suppliers. For each category, identify the following:
   a. Significant design criteria.
   b. List of equipment.
   c. Parts list for each component.
   d. Operating instructions.
   e. Maintenance instructions for each equipment item and systems.
   f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions for identifying detrimental agents.
5. Submit operations and maintenance data to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

B. Record/As Built Documents:
1. Prepare and maintain on site one set of the following record/as built documents:
   a. Contract Documents.
   b. Construction Documents.
   c. Change orders and other modifications to the Contract.
   d. Shop drawings, product data, and samples.
   e. Construction schedule.
2. Store record/as built documents separate from documents used for construction.
3. Record actual revisions to the Work, concurrently with construction progress.
4. Legibly mark and record a description of actual products installed at each specification section, including the following:
   a. Manufacturer's name and product model and number.
   b. Approved product substitutions or alternates utilized.
   c. Changes made by addenda, change orders, and other modifications.
5. Legibly mark each item to record actual construction, including the following:
   a. Measured depths of foundations in relation to finish first main floor datum.
   b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
   d. Field changes of dimension and detail.
   e. Details not on original Contract Document drawings.
6. Submit record/as built documents to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

C. Warranties and Bonds:
1. Compile warranties and bonds required by the Contract Documents.
2. Submit duplicate copies of warranties and bonds to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

D. Maintenance Materials and Spare Parts:
1. Provide extra maintenance materials and spare parts in quantities indicated in the specification sections.
2. Place in location as directed by the Tenant's Construction Manager.

DIVISION 2 - SITE CONSTRUCTION

1.1 General: Provide site construction work, including services, utilities, earthwork, paving and landscaping in accordance with the site construction work drawings and details.

2.1 Materials:

A. Stencils for pavement markings: Pavement Stencil Comapny, P: (800) 250-5547, stencils@pavementstencil.com

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1.1 General: Provide cast-in-place concrete work in accordance with the General Structural Notes, structural drawing and details. Follow shell building documents for specifications, joints and geotech.

A. Standards: Materials and construction shall conform to the following:
1. ACI 117 "Standard Tolerances for Concrete Construction and Materials."
2. ACI 301 "Structural Concrete for Buildings."
3. ACI 305R "Recommended Practice for Hot Weather Concreting."
4. ACI 306R "Recommended Practice for Cold Weather Concreting."
5. ACI 315 "Details and Detailing of Concrete Reinforcement."
6. ACI 318 "Building Code Requirements for Reinforced Concrete."

2.1 Materials:

A. Under Slab Vapor Retarder: Stego Industries LLC, 877-464-7834, internet www.stegoindustries.com high density polyethylene Stego Wrap (10 mil) Vapor Barrier meeting or exceeding ASTM E1745 performance criteria for Class C vapor retarders.
1. Seam Tape: High density polyethylene tape with pressure sensitive adhesive.
2. Pipe boots: Shop or site fabricated from vapor retarder material and seam tape.

B. Concrete:
1. Portland Cement: ASTM C150, Type I
2. Aggregate: ASTM C33.
3. Water: Clean and potable.
4. Reinforcement: When required, comply with drawings reinforcement requirements.
5. Compressive Strength: Minimum 3000 psi at 28 days.
6. Admixtures: All admixtures shall be approved by the Tenant's Construction Manager prior to placement in the concrete mix.

C. Topping Concrete: When required to suit installation conditions, Ardex Diama-Top of Ardex Engineered Cements (888) 512-7339, internet www.ardex.com
1. ULTRAFLOR ARDEX DIAMA-TOP, self-leveling concrete repair material.
2. Any pinholes that need to be filled shall be filled with ARDEX DIAMA-FILL filling compound for polished concrete, concrete terrazzo and other cementitious wear surfaces applied at the appropriate time during the polishing process.
3. The primer for areas to receive ARDEX DIAMA-TOP will be ARDEX EP 2000 Substrate Preparation Epoxy.
4. Installation shall be performed by factory-trained professional applicators in strict accordance with manufacturer's installation instructions.

3.1 Installation

A. Vapor Retarder: Place, protect and repair vapor retarder sheets in accordance with ASTM E1643 and manufacturer's installation instructions.
1. Provide a single layer of vapor retarder material over level compacted slab base.
2. Lap joints and seams 6 inches and seal with seam tape.
3. Seal all penetrations and repair damaged areas before concrete placement.

B. Reinforcement Place and inspect all reinforcing steel before concrete is placed.

C. Concrete Placement:
1. Place cast-in-place concrete in accordance with ACI 301 and ACI 305R and 306R recommended practices for hot weather and cold weather concreting. Do not place concrete when temperature is below 40 degrees F.
2. Wet cure concrete in accordance with ACI 301, using moist curing or moisture-retaining covers

D. Finish: Except where additional floor finish is scheduled, provide a smooth steel trowel finish.
1. Exposed concrete used as a finish floor surface shall have a smooth finished surface, uniform in texture and appearance and free of trowel marks and other defects affecting ease of maintenance.
2. Grind smooth surface defects as directed by the Tenant's Construction Manager.

E. Testing: When required, comply with drawings and specification sections testing requirements.

F. Topping Concrete: Prepare concrete floor slab substrate surfaces, prime substrate surfaces, mix, install and finish topping concrete in accordance with manufacturer's application instructions.

SECTION 033600 - RESINOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

A. Performance Requirements: Provide resinous flooring that has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
B. Alternate Flooring Options as approved by CMG DM: AlFlooring TerraQuartz (color: salt & pepper) -or- AlFlooring TerraSeal (color: medium grey)

1.3 Quality Assurance:

A. Qualifications:
1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
   a. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
   b. Contractor shall demonstrate the ability to undertake and complete the required work and furnish documentation regarding the successful completion of projects of similar size and complexity.
2. Manufacturer Qualifications: Manufacturer shall be capable of providing technical support, qualified applicators, and approval of application methods.

B. Pre-installation Meetings: Conduct a pre-installation meeting to verify flooring system specifications (color, texture, etc.), substrate analysis, and manufacturer's installation instructions.

C. Pre-installation Testing: Conduct pre-installation testing as follows:
1. Water Vapor Transmission: Calcium Chloride tests should be conducted to determine the amount of water vapor coming through the slab. The results should be compared to limitations set forth by the manufacturer.
2. Core Sample Testing: (optional) Core samples should be taken and analyzed if the installer believes there to be a problem with the integrity of the substrate that may affect flooring system performance.

1.4 Delivery, Storage & Handling:

A. Ordering: Comply with manufacturer's ordering procedures and allow for enough lead-time for custom blends so as not to interfere with construction schedules.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

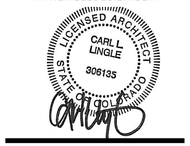
C. Storage and Protection: Store materials where they are protected from direct sunlight and harmful weather conditions. Meet manufacturer's condition for temperature, humidity, etc.

1.5 Project Conditions:

A. Environmental Requirements/Conditions: Substrate and ambient air temperatures shall be in accordance with manufacturer's requirements.

B. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
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Contents:
ARCHITECTURAL SPECIFICATIONS

G010

2.1 Materials:

A. Resinous Flooring: Manufacturer: aiflooring
   1. Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627

2.1 Flooring System:

A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.
   1. TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating.
   2. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat.
   3. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance.

2.3 Product Substitutions:

A. Substitutions: No substitutions permitted.

2.4 Source Quality:

A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.

3.1 Manufacturer's Instructions:

A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.

3.2 Examination:

A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
   1. Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials.

3.3. Preparation:

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

B. Surface Preparation:
   1. Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding.
   2. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations.
   3. Prepare and clean control joints well and fill with an appropriate elastomeric.

3.4 Installation:

A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.
   1. Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations.
   2. Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application.
   3. Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling.

B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.5 Protection:

A. Protection: Protect installed product and finish surfaces from damage during construction.

SECTION 03395 - CONCRETE SEALING AND POLISHING

1.1 General: Provide a sealed and polished concrete floor finish as shown and specified.

A. Standards
   1. American Society for Testing and Materials:
      a. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
      b. ASTM G23-81, Ultraviolet Light & Water Spray
      c. ASTMC805, Impact Strength
   2. American Concrete Institute
      a. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction

B. Submittals: Provide the following:
   1. Manufacturer's product data, specifications and installation instructions. Include Material Safety Data Sheets (MSDS) and identify application requirements, curing time and safety requirements.
   2. Certified test reports, prepared by an independent testing laboratory, confirming compliance with performance criteria.
   3. Manufacturer's certification that installer is a certified applicator of special concrete floor finishes, and familiar with manufacturer's installation procedures and requirements for the specified sealed and polished concrete floor finish.
   4. Manufacturer's and installer's written acceptance of substrate surface and installation conditions.

C. Quality Assurance:
   1. Installer Qualifications:
      a. Use a certified installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
      b. The special concrete finish manufacturer shall certify the applicator.
      c. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section. Applicator shall have not less than three years successful experience installing sealed and polished floor finishes similar to those required for this project.
      d. Provide a letter of certification from special concrete finish manufacturer stating that installer is a certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.
   2. Protection: Contractor shall provide all necessary materials, means, methods and procedures acceptable to the floor finish manufacturer and required to protect the concrete floor surface and provide a suitable substrate for the installation of the specified sealed and polished concrete floor finish.

D. Project Conditions:
   1. Comply with the floor finish manufacturer's environmental limitations for substrate temperature and moisture content, ambient temperature, and humidity, ventilation and other conditions affecting the special floor finish performance.
      a. Concrete must have an average Floor Flatness rating of at least 40.
      b. Concrete must have an average Floor Levelness rating of at least 40.
      c. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of RetroPlate can begin. Wet cure of the concrete is preferred. No concrete sealer is necessary.
      d. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.
   2. Before general sealer/hardener application, prepare and coat a jobsite test area of size acceptable to the Architect, to verify and approve proper surface preparation, application techniques and coverage rate.
   3. Close finished floor areas to traffic during floor finish application and after application for time period directed by the floor finish manufacturer.
   4. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.

2.1 Materials

A. Hardening/ Sealing Agent
   1. RetroPlate 99 manufactured by Advanced Floor Products Inc. (801) 812-3420 www.retroplatesystem.com
   2. RetroGuard Stain Inhibitor
   3. Joint Filler: CreteFill Pro 75. Two component 100% solids non-staining Polyurea Elastomer.
   4. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100% solids.
   5. Coefficient of friction for Retroguard finish shall not be lower than .40.
   6. Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com

3.1 Installation

A. Surface Conditions
   1. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
   2. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.
   3. Prior to application, verify that floor surfaces are free of construction latents.

B. Application
The following RetroPlate process will be followed as listed below:
A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:
   1. Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab.
   2. Clean the floor using automatic scrubber or comparable.
   3. Grind floor using 200 grit resin diamonds.
   4. Clean the floor using automatic scrubber or comparable.
   5. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes.
   6. Grind floor using 400 grit resin diamonds.
   7. Clean the floor using automatic scrubber or comparable.
   8. Clean and remove any excess RetroPlate. Let the floor dry overnight.
   9. Continue the polishing process using 800 grit resin diamonds.
   10. Clean the floor using automatic scrubber or comparable.
   11. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds.
   12. Clean the floor using automatic scrubber or comparable.
   13. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate.
   14. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad.
   15. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard.

C. Start any of the floor finish applications in presence of manufacturer's technical representative.

D. Sealing, Hardening and Polishing of Concrete Surface
   1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.
   2. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.
   3. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.
   4. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.
   5. Polish to a level 2 shine.

E. Workmanship and Cleaning
   1. The premises shall be kept clean and free of debris at all times.
   2. Remove spatter from adjoining surfaces, as necessary.
   3. Repair damages to surface caused by cleaning operations.
   4. Remove debris from jobsite
      a. Dispose of materials in separate, closed containers in accordance with local regulations.

DIVISION 4 - MASONRY

SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.1 General: Provide unit masonry assemblies as shown and specified.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 530.1-02/ASCE 6-02/TMS 602-02 "Specifications for Masonry Structures."
   2. NCMA "TEK Bulletins."
   3. BIA "Technical Notes on Brick Construction."

2.1 Materials:

A. Concrete Masonry Units (CMU): Size and thickness as shown on drawings.
   1. ASTM C 90, load-bearing, normal weight, natural color CMU, properly cured at time of delivery, linear shrinkage not to exceed 0.065%.
   2. Provide special shapes where required.
   3. Provide exterior wall CMU containing an integral polymeric water-repellent admixture.
      a. Manufacturer: W. R. Grace "Dry-BlockR System Block Admix ".

B. Face Brick:
   1. Manufacturer:
      a. Summit Brick Company
   2. Type: "Face Brick C216" complying with ASTM C216, Grade SW, Type FBS. No efflorescence when tested in accordance with ASTM C67.
   3. Size: Modular size, laying three courses to 8" vertically.
   4. Color: "Light Pewter" or "Fossil Gray" as noted on Exterior Elevations
   5. Provide special shapes where required.

C. Mortar Materials:
   1. Portland cement: ASTM C150, Type I or III, gray.
   2. Masonry cement: ASTM C91, Type indicated, gray.
   3. Aggregate: ASTM C144, clean masonry sand.
   4. Water: Clean, fresh and potable.
   5. Provide all exterior wall masonry mortar containing an integral polymeric water-repellent admixture.
      a. Manufacturer W. R. Grace, "Dry-BlockR Integral Water-Repellent Mortar Admixture".

D. Unit Masonry Mortar Mixes: ASTM C270 proportions by volume.
   1. Face brick: Type N mortar.
   2. Dye:
      a. Gray color from manf std Solomon Grind Services (Fossil Gray & Light Pewter)
      b. Gray color from manf std Spec Mix (Fossil Gray & Light Pewter)

E. Reinforced Unit Masonry Grout Mixes
   1. Concrete fill: ASTM C94 3,000 psi concrete.

F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized
   1. Manufacturer: Hohman & Barnard, INC.
   2. Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.
      a. Single Wythe masonry: Standard single 9 gage side and cross rods. H&B - #220 Ladder-Mesh.
   3. Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.
      a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.
      b. CMU to structural steel: H&B - VBT - Vee Byne-Tie With Plain Steel (Tie) Used In Conjunction With H&B #359 Weld-on Ties (Anchor Rods).
   4. Masonry Veneer To Wood Framing: H&B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.
      a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.
   5. Seismic Masonry Veneer to Wood Framing: (When Required) H&B Seismic Plate Pintle HB-213S with HB-213 (T-Lok Tie)
      a. Fasteners: Seld-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.

G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.
   1. Termination Mastic: W.R. Grace "Bituthene Mastic."
   2. Primer: W.R. Grace "Bituthene P-300 Primer."
   3. Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.

H. Accessories
   1. Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.
   2. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer.
   3. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010.
   4. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.
   5. Cleaning agents:
      a. Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners."
      b. ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner."
   6. Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.

3.1 Installation

A. Preparation
   1. Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.
   2. Lay concrete masonry units dry.
   3. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed
   4. Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.

B. Installation - General:
   1. Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.
   2. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.
   3. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.

C. Laying Masonry
   1. Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.
   2. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.
   3. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.
   4. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.
   5. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.
   6. Compress and cut joints flush for masonry walls below grade or covered by other materials.
   7. Tool joints in all exposed masonry work to a concave joint.
   8. Provide interlocking masonry bond in each course at corners and intersecting walls.
   9. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.
      a. Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.
      b. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.
      c. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.
      d. Install anchors, plates and related work built into masonry work.
      e. Install reinforcing steel and concrete fill where indicated. Comply with drawing details.
   10. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:
      a. In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.
      b. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.
      c. Fully embed side rods in mortar.
   11. Anchoring masonry work: Provide anchoring devices of the type indicated or required.
   12. Provide vertical expansion, control and isolation joints in masonry where indicated.
      a. When not indicated, at maximum 30'-0" on center.
      b. Locate control joints at points of natural weakness in masonry and acceptable to Architect.
      c. Joint sealant color shall match masonry materials sealed.
   13. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.
   14. Flashing and weeps:
      a. Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.
      b. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.
      c. Flexible Membrane Flashing:
         1.) Install membrane flashing in accordance with manufacturer's installation instructions.
         2.) Fully adhere flashing to substrate.
         3.) Lap flashing joints a minimum of 6", seal and roll with a hand roller.
         4.) Trim bottom edge 1/4" back from exposed face of masonry.
         5.) Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.
   15. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.
   16. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.

D. Masonry Veneer Walls:
   1. Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.
   2. Space ties 16" on center vertically and horizontally.
   3. Maintain veneer wall cavity free of mortar droppings during masonry installation.

E. Parging:
   1. Dampen masonry walls prior to parging.
   2. Scarify each parging coat to ensure full bond to subsequent coat.
   3. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).
   4. Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).

F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:
   1. Draw ACMU from more than one pallet at a time during installation.

G. Reinforced Concrete Masonry
   1. Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
      a. Comply with drawing details for reinforcing steel size and spacing.
   2. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.

H. Repair, Pointing and Cleaning
   1. In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.
   2. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.
   3. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
   4. Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.
   5. Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.
   6. Muriatic acid cleaning of masonry not permitted.

I. Architectural Concrete Masonry:
   1. Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.
   2. Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.
   3. After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
   2. AISC "Code of Standard Practice."
   3. AWS "Structural Welding Code, D1.1-Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.

C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.

D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.

E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.

F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.

G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.
   1. Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.
   2. Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform splicing by full penetration butt-welding using AWS qualified welders and welding methods.
   3. Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.

3.1 Installation:

A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".
   1. Plumb, level and align base plates for structural members with steel shims.
   2. Grout structural steel base plates solid that bear on concrete or masonry surfaces.

B. Testing: When required, comply with drawings testing requirements.

SECTION 05400 - COLD-FORMED METAL FRAMING

1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISI SG02.2-01 "Design of Cold-Formed Steel Structural Members."
   2. AWS "Structural Welding Codes, D1.3-Sheet Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.
   1. Components: Provide sizes and shapes indicated.
   2. Finish: Galvanized complying with ASTM A653, minimum G60 coating.

C. Fabrication:
   1. Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.
      a. Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.
   2. Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.
   3. Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.
   4. Saw cut field cut framing. Torch cutting not acceptable.

3.1. Installation:

A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.

B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.

SECTION 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

A. Submit shop drawings for the following:
   1. Patio Rail systems.
      a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
      b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.

2.1 Materials

A. Materials compliance: When requested, submit acceptable data documenting materials compliance.

B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.

C. Stainless Steel:
   1. Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.

D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
   1. Wall: Bright reflective finish.
   2. Floor: Mil finish.

E. Patio Railing System
   1. Submit shop drawings including the following:
      a. Show thickness, size, construction and welding, as well as assembly drawings.
      b. Show true profiles, connections of all typical joint configurations
      c. Show installation (fastening) and proposed grout (non-gypsum base)
      d. Show gate detail and gate hardware manufacturer and model number
      e. Patio railing plan, with dimensions and panel assembly locations.
   2. Fabrication
      a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
      b. Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.
      c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
      d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.
      e. All corners and joints shall be seal welded and outside joints ground smooth.
      f. All welding spatter shall be removed before sand blasting.
   3. Finish
      a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.

F. Exposed Fasteners:
   1. Diamond Plate: #8 x 1" bevel headed stainless steel screw.
   2. Patio Railing:
      a. All fasteners shall be stainless steel and powder coated to match railing sections.
      b. Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers
      c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

G. Shop paint primer: Refer to Section 09900 - Paints and Coatings

Consultant:

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ARCHITECTURAL SPECIFICATIONS

G011

3.1 Installation: Comply with the Architectural Drawing details and the following:

A. Exposed Fasteners:
1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.

B. Stainless Steel:
1. Wall:
a. Clean stainless steel panel with mineral spirits.
b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.

C. Diamond Plate:
1. Wall: Mount over plywood substrate w/ flush exposed fasteners.
2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.

D. Patio Railing System:
1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter
2. Railing posts shall be grouted in using non gypsum quick set grout.
3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.

E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1.1 General: Provide rough carpentry work as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. NIST PS-1-95 "Construction and Industrial Plywood."
2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
3. NIST PS-20-99 "American Softwood Lumber Standard."
4. NF&PA NDS-97 "Wood Construction and Supplement."
5. AWPA "Wood Treatment Standards."

2.1 Materials:

A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated.
1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
a. Provide preservative treated lumber, where indicated.

B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
1. APA-RATED SHEATHING EXP1.
a. Provide Exterior Grade (EXT) plywood, where indicated.
b. Provide fire-retardant treated plywood, where required by Building Code.

C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick

2.2 Wood Treatment:

A. Preservative Treatment: Comply with applicable requirements of AWPA Standards C2 (Lumber).
1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
2. Treat wood blocking, nailers and similar members in connection with roofing and flashing.
3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.

B. Fire-Retardant Treatment: Comply with applicable requirements of AWPA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.

C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

3.1 Installation:

A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading.
1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints.
2. Use materials free of warp. Make tight connections between members.

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

1.1 General: Provide finish carpentry and millwork as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. AWI "Architectural Woodwork Quality Standards - 1999."

B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.

C. Submit shop drawings for designated millwork.
1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details.
2. List proposed cabinet hardware to suit indicated unit use or function.
3. Identify materials required to complete work ready for installation.
4. Obtain shop drawing approval before starting fabrication.

2.1 Materials:

A. Plywood: AWI Section 200
1. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. (OSB is an alternative as allowed by Chipotle CM)
2. Exposed to view finishes:
a. Random plank matched or slip and swing matched spalted maple veneer on 3/4" baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally .5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 95".
b. 3/4" Rice Straw MDF panels (by Eureka) with digitally printed spalted maple artwork. UV white primer used on front side for printing process, and clear UV cured topcoat covers the front and backside of the panels. Panels are cut to 47" x 95" on CNC and have 7 artwork options. Similar printing process on 3/4" baltic birch core for trash surround doors.

B. Millwork: Materials and construction as detailed on the Drawings.

C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.

D. Finish:
1. Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer
2. Perfecta UV-Cured topcoat for panels with printed artwork.

3.1 Installation

A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
1. Scribe and cut finish carpentry and millwork products to fit adjoining work.
2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06100, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation.
3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines:
a. Nailer to be set for countersunk head approximately 1/8" on the face.
b. Use 16 ga straight finish nails in 2" length
c. Provide "dab" of construction adhesive on backside of panels at regular intervals.
d. Random placement preferred, do NOT group nails together.
e. No nails closer than 2" from any edge.
f. All nails to be no greater than 16-18" apart in any direction.
g. When using digital printed MDF panels, plan the layout so adjacent panels do not have the same artwork.
4. Touch-up shop finished materials marred or damaged during delivery, storage and installation:
a. For spalted veneer panels, use custom blended polyurethane to equal Minwax "Wipe on Poly".
b. For printed artwork panels, buff with dry cloth for smudges, use lint free cloth for dust, and forliquids use cloth or sponge to absorb liquid (do not wipe) then use water saturated soft cloth with a small amount of mild soap to wipe surface clean, buff with dry cloth to remove streaks.

B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

1.1 General: Provide fiberglass reinforced plastic panels as shown and specified.

2.1 Materials:

A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com

B. Panel System: 'P6' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Inside Corner - M350
b. Outside Corner - M360
c. Division - M365
d. Edge - M370
2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation.
3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

C. Panel System: 'P2' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Edge - M370
2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture

3.1 Installation

A. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
1. Install panels plumb, level, true and straight with no distortion; providing a continuous bead of silicone sealant in each joint and trim groove and between trim and adjacent construction.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials:

A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com
1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated.

B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com.
1. Type: Owens Corning " Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665,. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated

C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm.
1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

3.1 Installation:

A. General:
1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.

B. Foundation perimeter walls and slabs:
1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
2. Protect insulation from displacement and damage during backfilling and slab placement

C. Exterior Walls:
1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
2. Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.

D. Vapor Barriers:
1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
2. Provide single unsplced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

SECTION 07240 -EXTERIOR INSULATION AND FINISH SYSTEM (PB)

1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. EIMA (EIFS Industry Members Association) Standards and Publications.
a. 101.01, 101.02, 101.03, 101.86, 105.01, 200.02.
b. EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation board."

B. Quality Assurance:
1. System components:
a. Produced by a single manufacturer or by manufacturers approved by the EIFS system manufacturer.
b. Fire performance: Flame spread of 25 or less, smoke developed of 450 or less when tested in accordance with ASTM E84.
2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.

C. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.

2.1 Materials

A. Manufacturer: STO Corp., P: (800) 221-2397, internet www.stocorp.com
Strategic Accounts Manager: Ray Redmond, P: (616) 437-2230, rredmond@stocorp.com

B. Exterior insulation and finish system: Sto Class PB "StoTherm ci" EIFS.
1. Air/Moisture barrier: Sto Guard system.
a. Sto RapidGuard for rough opening protection, sheathing joints and inside and outside corners.
b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh.
c. Sto Gold Coat: Waterproof Fluid Applied Air/Moisture Barrier
2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings.
3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft³ expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board.
4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating.
a. Medium/Fine Sand Finish.
b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color.
5. System warranty: 10 year labor and material.

C. Portland cement: ASTM C150, Type I or II, white or gray in color.

D. Water: Clean, potable and free of foreign matter.

E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating.
1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd² fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd² ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd² flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd² pre-creased, heavy-duty, glass fiber fabric.

F. Joint sealants: Polyurethane base elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements.
1. Adhesion: Evaluated in accordance with ASTM C1382.
2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect.

G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer.
1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.

3.1 Mixing

A. Mix materials in accordance with manufacturer's published instructions.
1. Mix with a clean, rust-free high speed mixer to a uniform consistency.
2. No rapid binder, anti-freeze or accelerator additives permitted.

4.1 Installation

A. Preparation:
1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier.
2. Coordinate installation of windows, doors and window and door flashing to provide continuous exterior wall air/moisture barrier.
3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.

B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work.
1. Back wrap exposed board edges with mesh.
2. Provide double wrap or corner mat reinforcing at all inside and outside corners.
3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect.
4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.

C. Insulation and adhesive application:
1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners.
2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.

D. Base coat and reinforcing mesh application:
1. Apply detail mesh at corners of windows, doors, and all penetrations through the EIFS.
2. Standard mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness, including high impact mesh where indicated. Embed standard reinforcing mesh into wet adhesive, lap edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry.
3. Ultra-High impact mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness. Fully embed ultra-high impact reinforcing mesh into wet adhesive, butt edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. Locate at 4'-0" wide perimeter of the rear service door to 6'-0" above grade and as indicated on Architectural drawings.

E. Apply finish coating continuously in one operation to the entire wall surface Provide a uniform finished appearance. Level and texture to the specified finish texture.

F. Install joint sealants at perimeter joints and joints within the system using elastomeric joint sealants, in accordance with drawing details and sealant manufacturer's recommendations.

SECTION 07250 - WEATHER BARRIERS

1.1 Section Includes

A. Weather barrier membrane
B. Seam Tape
C. Flashing
D. Fasteners

1.2 References

A. ASTM International
1. ASTM C920; Standard Specification for Elastomeric Joint Sealants
2. ASTM C1193; Standard Guide for Use of Joint Sealants
3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
6. ASTM E96; Test Method for Water Vapor Transmission of Materials
7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls.
8. ASTM E2178; Test Method for Air Permeance of Building Materials

B. AATCC - American Association of Textile Chemists and Colorists
1. Test Method 127 Water Resistance: Hydrostatic Pressure Test

C. TAPPI
1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area)
2. Test Method T-460; Air Resistance (Gurley Hill Method)

1.3 Quality Assurance

A. Qualifications
1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions.
2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.

1.4 Delivery, Storage and Handling

A. Refer to Section 01400 Quality Requirements.
B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. Store weather barrier materials as recommended by weather barrier manufacturer.

1.5 Scheduling

A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.
B. Schedule installation of weather barrier materials and exterior cladding within 9 months of weather barrier assembly installation.

2.1 Manufacturer

A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.44TYVEK (8-9835); http://constructiontyvek.com

2.2 Materials

A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components.

B. Performance Characteristics:
1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B.
3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127.
4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410.
5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.
6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A.
7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117.
8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.

2.3 Accessories

A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.

B. Fasteners:
1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.

C. Adhesives:
1. Provide adhesive recommended by weather barrier manufacturer.
2. Products:
a. Liquid Nails LN-109
b. Polyglaze SM 5700
c. Denso Butyl Liquid
d. 3M High Strength 90
e. SIA 665
f. Adhesives recommended by the weather barrier manufacturer.

D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
a. 3M High Strength 90
b. Denso Butyl Spray
c. SIA 655
d. Permagrip 105
e. ITW TACC Sta' Put SPH
f. Primers recommended by the flashing manufacturer.

E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.

3.1 Examination
A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

3.2 Installation - Weather Barrier
A. Install weather barrier per regional requirements in accordance with manufacturer recommendations.
B Install weather barrier prior to installation of windows and doors.
C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap.
D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level.
E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer.
F. Window and Door Openings: Extend weather barrier completely over openings.
G. Overlap weather barrier
1. Exterior corners: minimum 12 inches.
2. Seams: minimum 6 inches.
H. Weather barrier Attachment:
1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally.
2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier mfr recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches o.c., when coordinated on the project site.
I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.

3.3 Seaming

A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
B. Seal any tears or cuts as recommended by weather barrier manufacturer.

3.4 Opening Preparation (for use with non-flanged windows - all cladding types)

A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.

3.5 Flashing (for use with non-flanged windows - all cladding types)

A. Cut 9-inch wide DuPont FlexWrap a min of 12 inches longer than width of sill rough opening. Apply primer as required by mfr.
B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before a adhering up the jambs.
C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges.
D. Apply 9-inch wide strips of DuPont StraightFlash at jambs. Align flashing with interior edge of jamb framing. Start DuPont StraightFlash at head of opening and lap sill flashing down to the sill. Spray-apply primer to top 6 inches of jambs and exposed sheathing.
E. Install DuPont FlexWrap at opening head using same installation procedures used at sill. Overlap jamb flashing min 2 inches.
F. Coordinate flashing with window installation.
G. On exterior, install backer-rod in joint between window frame and flashed rough framing. Apply sealant at jambs and head. leaving sill unsealed. Apply sealants in accordance with sealant manufacturer's instructions and ASTM C 1193.
H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont StraightFlash over the 45-degree seams.
I. Tape top of window in accordance with manufacturer recommendations.
J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C 1193.

3.6 Protection
A. Protect installed weather barrier from damage.

Consultant:

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Contents:

ARCHITECTURAL SPECIFICATIONS

G012

NOT USED

1.1 General: Upon penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repairs.

A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
1. Existing roof system materials and installation methods.
2. Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.

B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.

2.1 Materials

A. Provide and install only materials approved and recommended by the roofing manufacturer for repairing the existing roofing system.

3.1 Installation

A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.

B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.

C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
3. NRCA "Single-Ply Roofing Membrane."
4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."

B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.

C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
1. Comply with manufacturer's recommendations for handling and protection during installation.

D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
2. Provide special protection on completed roofing work.
3. Protect paving and structure walls adjacent to hoists before starting work.
4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.

E. Warranty
1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

2.1 Materials

A. Manufacturer: Duro-Last Roofing, Inc, (614) 370-5569, Mike Suman, www.duro-last.com
1. Basis of Design Product Roofing System
a. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
b. Thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.

B. Comparable Alternate Roof Manufacturers:
1. Versico Roofing Systems, (815) 341-3770, Chris Shermach, chris.shermach@versico.com
a. VersiFlex PVC Adhered System
2. Other comparable alternates can be considered when approved by Arch PM and Chipotle DM/CM.

C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or FM 4470
1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass- faced, silicone-treated gypsum core panels, 1/2"" thickness.
2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
a. Provide a double layer installation. Minimum total R-value as indicated on plans.
b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 868-1183, internet www.flexibeproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1 Installation

3.1 Installation

A. Preparation:
1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.

B. Installation:
1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
2. Roof insulation.
a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pr-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
b. Adhere membrane to insulation cover board with bonding adhesive. Broom bonded membrane to achieve maximum contact.
c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.
e. Flash and make weathertight all equipment curbs, pipes, conduits, drains and other penetrations or projections through sheet roofing using roofing system manufacturer's recommended flashing materials, accessories and procedures.
5. Install roof accessories and traffic walkways in accordance with manufacturer's instructions.
6. Install sheet metal work furnished under section 07600.

SECTION 07600 - FLASHING AND SHEET METAL

General:

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

1.1 Pre-manufactured perimeter edge metal and accessories

Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc, (800) 248-0280, Jason Dark, www.Duro-Last.com

A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

1.2 General: Miscellaneous sheet metal

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

2.1 Materials:

A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated.
1. Scuppers: Minimum 16 gage.
2. Coping/Wall caps: Minimum 18 gage.
B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
1. Conductor Boxes: Minimum 0.040"thickness.
2. Downspouts: Minimum 0.025"thickness.
C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.
D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

3.1 Installation:

A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage:
B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weatherproof. Bed flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slipsheet over treated wood.
4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

SEE SHEET G018 FOR SECTION 07 42 13 EXTRUDED PLANK SYSTEM

NOT USED

1.1 General:

A. Standards:
1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

B. Related work specified elsewhere:
1. Structural steel: Section 05100
2. Sheet joists: Section 05300 or 05400
3. Flashing and sheet metal: Section 07600

1.2 Quality Assurance:

A. Applicable standards:
1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
2. AISC "Steel Construction Manual" American Institute of Steel Construction
3. AISI: "Cold Form Steel Design Manual: American Iron and Steel Institute
4. ASTM A792-83-A250: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume)

B. Manufacturer's qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

1.3 Product Delivery, Storage and Handling

A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

2.1 Materials

A. Metal wall system panel:
1. Shadow Rib: 4 inch deep x 16 inch width with 1 1/2 inch deep x 5 1/4 inch wide fluting
B. Metal wall system style:
1. Fluted face
2. Concealed fasteners
C. Gauge: 24 gauge
D. Substrate: Per Plans
E. Texture: Smooth
F. Finish: Premium thermoset silicone polyester (20 year warranty)
G. Color: Polar White, to be painted per Exterior Elevations
H. Acceptable Manufacturer: MBCI Houston, Texas (281) 445-8555.

3.2 Surface Conditions

A. Examination:
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

3.2 Installation

A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
C. Provide concealed anchors at all panel attachment locations.
D. Install panels plumb, level and straight with seams parallel conforming to design as indicated.

3.3 Cleaning, Protection

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer's recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

3.4 Field Painting

A. Refer to section 09900 on G017
B. Follow manufacturer's technical bulletin for Precoated Signature 200 MBCI wall panels.

Section 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

A. Standards:Comply with ASTM C 920 requirements.

B. Application: Performed by skilled, experienced joint sealer applicators.

2.1 Materials:

A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
b. "Dymeric 240 FC" Multi Component, gun grade, chemically curing, tintable fast setting polyurethane sealant.
2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
a. Color pack for polyurethane multi component, gun grade chemically curing sealant.

B. Silicone Sealants:
1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
a. "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
c. "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
d. "GE Paintable Silicone" one component paintable silicone.
e. "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
a. "Dow 795" – one component, medium modulus, natural cure silicone.

C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3M.com/firstop
1. "3M Fire Barrier CP 25WB+ Caulk" or approved equal

D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backer rod compatible with joint sealants.

3.1 Installation:

A. Preparation: Clean and prepare joints prior to installing sealers:
1. Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ¼" in width.

B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
1. Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
2. Install joint sealants to a depth no more than ½ the width of the joint.
3. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
4. Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
5. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels
2. Base of FRP wall panels to T.O. specified base material.
3. Walk in cooler walls to FRP wall panels.
4. Stainless closure pieces at cooler walls to FRP wall panels.
5. FRP/stainless corner guards to FRP wall panels.
6. Ceiling tile pipe penetrations.
7. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
8. Mop sink stainless surround perimeter to walls.
9. FRP closure panel, at top of cooler, to cooler walls.
10. FRP wall panels to hollow metal door frames.
11. Coke line bundle to PVC cap.
12. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
13. Battery backup cover panel to FRP.
14. Faucet's to FRP wall panels.
15. FRP wall panels to quarry tile cove base.
16. FRP to aluminum plate at walk thru.
17. Menu board light bracket to ceiling.
18. Mop sink base at quarry tile.
19. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
20. Paper towel dispensers & soap dispensers to FRP/tile walls.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless closer pieces, at sides of cooler walls - to cooler walls.
2. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
3. Diamond plate panel seam joints.
4. Diamond plate perimeter to cooler walls.
5. Base of diamond plate to quarry tile cove base.
6. Stainless closure panel, at top of cooler walls, to cooler walls.
7. Top of quarry tile cove base to cooler walls at inside of cooler.
8. Cooler wall/diamond plate penetrations.
9. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
10. Stainless wrap at hollow metal door frame.
11. Stainless mop surround to stainless corners on mop sink.
12. Base of stainless corner pieces to schlutter strip at base.
13. Exit door threshold perimeters. To frame and floor, interior and exterior.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door jambs to quarry tile floor.

B. Managers Office:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels.
2. Perimeter of manager's desk to FRP wall panels.
3. Hollow metal door frame to FRP wall panels.
4. Top and ends of coat hanger bracket to FRP walls.
5. Base of FRP wall panels to quarry tile base.
6. Ceiling tile wire/pipe penetrations.
7. FRP inside corners to FRP wall panels. Both sides of corner piece.
8. Base of FRP wall panels to quarry tile.

- Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
1. Base of safe to floor.

C. Cooking Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of wall tile to sheetrock ceiling.
2. Ceiling diffusers perimeters to sheetrock ceiling.
3. Ceiling pipe penetrations.
4. Wall tile to aluminum walk thru surround.
5. Tile wall penetrations/escutcheons perimeters.
6. FRP wall panels to sheetrock ceilings.
7. FRP wall panels to aluminum end wall plates.
8. FRP inside corners to FRP wall panels. Both sides of corner piece.
9. Sink to white wall tile.
10. Paper towel dispenser/soap dispenser to white tile.
11. POS/Serving counter to wall tile.
12. Stainless shelf behind grill to wall tile.
13. Faucets to ceramic wall tile.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Joint between hood and closure skirt.
2. Joint between hood support and hood. Both sides.
3. Connection joint between stainless shelf behind grill.
4. Hood to tile walls & sheetrock ceiling.
5. Hood gusset to wall tile on both sides.
6. Sink to bronze wall tile.
7. Paper towl dispenser/soap dispenser to bronze tile.
8. DML counter to bronze tile.

- Provide a continuous bead of dark gray GE SCS2000 at the following locations:
1. Base of equipment to concrete curbs/quarry tile.

- Provide a continuous bead of bronze GE SCS2097 at the following locations:
1. Ceramic tile inside corners.
2. Ceramic tile to aluminum end wall plates.

D. Restrooms:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
2. Perimeter of toilets/urinals to floor or FRP.
3. Perimeter of mirror to FRP.
4. Sink to wall.
5. Perimeter of paper towel/garbage unit to wall.
6. Toilet paper/napkin disposals units to walls.
7. Stainless shelf to wall.
8. Wall penetrations under sink and or escutcheons to perimeters.
9. Hollow metal door frames to FRP.
10. Base of FRP wall panels to top of wall base.
11. FRP inside corners to FRP wall panels.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber wall base to floor.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door frames to floor.

E. Dining area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Wall tile to sheetrock walls.
2. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
3. Wainscot wall panels (Stonewood or other) to painted walls.
4. Diffuser/louvers perimeters to sheetrock walls.
5. Hollow metal door frames to painted walls - if needed.
6. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
7. Wall tile at serving line wall to POS counter.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
2. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
3. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
4. Stonewood panels at serve line.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Base of garbage surround to floor.

- Provide a continuous bead of Dow 795 silicone at the following locations:
1. Sill of aluminum storefronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).

F. Utensil Counter:
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless countertop to backsplash. Horizontal & vertical joints.
2. Base of Coke machine to countertop.
3. Perimeter of tea drain tray to countertop.
4. Stainless backsplash to white tile walls/painted walls.

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Coke line bundle to PVC cap.

G. Fire Rated Walls:
- Provide a continuous bead of 3M 25WB+ at the following locations:
1. Wall/ceiling penetrations in rated walls.

H. Exterior Joints:
- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
1. Sidewalk/concrete expansion joints.

- Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
1. Hollow metal door frames.
2. EIFS to abutting services.
3. Penetrations in EIFS.
4. Face brick or block control joints.
5. Perimeter of Aluminum Storefronts.
*Colors to be determined per store to match adjacent material colors. Verify with Chipotle Construction Manager and Architect.
- For "Fog" EIFS use Tremco - "Natural White"
- For "Knight's Armor" EIFS use Sonneborn - "Charcoal Gray" #276-U
- For white brick use Tremco - "China White"
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
1. CO2 fill port stainless box.
2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

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ARCHITECTURAL SPECIFICATIONS

G013

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1.1 General: Tenant to provide steel doors and frames as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
3. SDI 122-99 " Installation for Standard Steel doors and Frames.

B. Manufacturer: A member of the Steel Door Institute (SDI).

2.1 Materials:

A. Steel Doors:
1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.

2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.

B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

C. Door and frame fabrication:
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
2. Punch frames and factory install rubber door silencers.
3. Provide minimum three anchors of suitable design for each jamb.
4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.

D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.

3.1 Installation:

A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.

B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1 General: Provide aluminum entrances and storefronts as shown and specified.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

B. Standards: Materials and construction shall conform to the following:
1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

1.3 Summary:

A. Section Includes:
1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
a. Types of Kawneer Aluminum Storefront include:
(1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set
(2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Kawneer Aluminum Entrances, glass and glazing, and components
a. Types of Kawneer Aluminum Entrances include:
(1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.

3. Kawneer Tube for Feature Exterior Slat Wall

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
a. YKK
(1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
(2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
b. Oldcastle
(1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
(2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
c. US Aluminum
(1.) Series FT601 - 2" x 6" nominal dimension; Thermal
(2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
d. EFCO
(1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
e. Wausau
(1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4 Performance Requirements:

A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000
b. Importance Factor: (1.00)
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000

B. Storefront System Performance Requirements:
1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.
2. Air Infiltration:
a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.
b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no defection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:
a. Glass to Exterior - 0.47 (low-e)
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
a. Glass to Exterior - 70 frame and 69 glass (low-e)
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
a. Glass to Exterior - 38 (STC) and 31 (OITC)

1.5 Submittals:

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.

C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.

1.6 Quality Assurance

A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope

B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of rest reports, and calculations.

C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 Project Conditions:

A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1 Manufacturers:

A. Manufacturer: Kawneer Company Inc., Contact: Doug Hess, Phone: 317-771-9265; email:doug.hess@arconic.com

1. Basis-of-Design Product Storefront Framing:
a. Trifab 601T (thermal) Storefront System
i. 2" x 6" System Dimensions
ii. Glass: Exterior (Center-Set)
b. Trifab 451T (thermal) Storefront System
i. 2" x 4-1/2" System Dimensions
ii. Glass: Exterior (Front-Set)

2. Basis-of-Design Product Storefront Entrances:
a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"
b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.
c. Glazing gaskets shall be either EPDM elastometric extrusions or a thermoplastic elastomer.
d. Provide adjustable glass jacks to help center the glass in the door opening.

3. Basis-of-Design Product Feature Exterior Slat Wall:
a. Kawneer Tube #027881 (1" x 3"), capped at top and bottom
i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM.
1. Architechural Fabrication

B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
1. YKK
a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
2.. Oldcastle
a. Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
3.. US Aluminum
a. Series FT601 - 2" x 6" nominal dimension; Thermal
b. Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
4. EFCO
a. Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
5. Wausau
a. TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

2.2 Materials:

A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.

B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.

C. Aluminum Storefront Entrance Extrusions:Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.

D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.

E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.

2.3 Storefront Framing System:

A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.
1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.

C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.

D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems:

A. Glazing: As specified in Section 08800 - Glazing.

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.

D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:
1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.
a. Color: Black
2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
a. Color: Matching structural sealant.

2.5 Entrance Door Systems:

A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.

2.6 Accessory Materials:

A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.7 Storefront Framing Fabrication:

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fit joints; make joints flush, hairline and weatherproof.
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
4. Physical and thermal isolation of glazing from framing members.
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
6. Provisions for field replacement of glazing.
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.

E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Storefront Entrance Door Fabrication:

A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.

B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
3. Prepare components with internal reinforcement for door hardware.
4. Arrange fasteners and attachments to conceal from view.

C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.

2.9 Aluminum Finishes:

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Factory Finishing:
1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)
2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM
a. YKK "Charcoal" UC99477, Superior Painted Finishes
b. All others to be verified with samples and submittals to Arch PM

2.10 Brake Metal Trim:

A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.
1. Show actual field measurements on shop drawings.
2. Differentiate between shop and field fabrication.
3. Indicate substrates and adjacent work with which the fabrications must be coordinated.
4. Include large-scale details of anchorages and connecting elements.
5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11 Formed Metal Fabrications - General:

A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.

B. Coordinaton: Match dimensions and attachement of formed metal items to adjacent construction. Produce integrated assembles. Closely fit joints; align edges and flat surfaces unless indicated otherwise.

C. Forming: Profiles indicated. Maximize lenghts. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain seperation at bends.

D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.

E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.

F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.

G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition.
1. Ease exposed edges to small uniform radius.
2. Welded joints.
a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M
3. Brass/Bronze Brazed Joints:
a. Perform torch brazing in accordance with AWS C3.4M/C3.4
b. Perform induction brazing in accordance with AWS C3.5M/C3.5
c. Perform resistance brazing in accordance with AWS C3.9M/C3.9

H. Performance requirements;
1. Thermal Movements:
a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.
2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

2.12 Formed Metal Fabrications - Sheet Metal

A. Closures, Trim, and Fill Panels:
1. Form Closures from type and thickness of metal indicated.
2. Conceal fasteners when possible.
3. Drill and tap holes for securing to other surfaces.
4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.
5. Miter or cope at corners and reinforce with bent metal plate. Form tigh joints.

2.13 Materials

A. Genaral: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material.
C. Anchors, Clips, and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
3. Steel complying with ASTM A36/A36M and hot-dipped galvenized to ASTM A123/A123M Coating Grade 35
4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.
5. Exterior Locations or in contact with Stainless Steel:
a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)
b. Nuts: Stainless steel; ASTM F594.
6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.
a. Type: Provide chemical or torque controled expansion anchors.
b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.
7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.
D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.
E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14 Finishes

A. Finishes, General: Comply with NAAMM AMP 500-06
1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.
2. Protect mechanical finishes on exposed surfaces from damage.
3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.
4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
B. Galvanized Steel Finishes:
1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M
2. Color: As shown on the drawings.
3. Factory Prime: Apply shop primer to pepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1
4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1 Examination:

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.
1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Installation:

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.

B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.

D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.

E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.

3.3 Adjusting, Cleaning, and Protection:

A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 085619 - PASS-THRU WINDOW

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
7. ASTM C1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.
10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.

B. Quality Assurance:
1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

2.1 Materials:

A. Acceptable Manufacturers. Arch PM to verify required manufacturer per Tenant's assignment.
1. Quikserv; Toll Free: 1.800.388.8307; Email: sales@quikserv.com; Web: https://www.quikserv.com/
2. ReadyAccess; Toll Free: 1.800.621.5045; Email: ready@ready-access.com; Web: https://www.ready-access.com

B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

Consultant:
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158 W. MAIN ST.
LENA, IL 61048
815.369.9155
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Contents:
ARCHITECTURAL SPECIFICATIONS

G014

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. Standard Custom Side Sliding Windows – Arch PM to verify manufacturer with Tenant.

• Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 29-3/4"H
2. Finish: Dark Bronze Anodized
3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
4. 'CHIPOTLE' package includes pre-wired air curtain with relay to sync operation with window.
   a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air Curtain mounts to transom.
      i. Heated Air Curtain: Model: QSV1025EJ-040-BK
      ii. Ambient Air Curtain: Model: QSK1025AA-BK
5. Refer to interior elevations (A700s) for direction of opening for ordering.

• ReadyAccess Automatic Side Sliding Window: 47 -1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 35"H
2. Finish: Dark Bronze Anodized
3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
   a. Heated Air Curtain: Model: AA300 (replaces transom)
   b. Ambient Air Curtain: Model: AA100 (split transom)
5. Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

1. ReadyAccess: Window 47-1/2" W x 35-3/4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
   a. Service Opening:15-1/4"W x 28"H, limited to meet CA code.
   b. Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.

2. Quikserv Model: SS-4035-E-CHIPOTLE-CALI, same as above except as noted.
   a. Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
   b. 'CHIPOTLE' package includes pre-wired ambient air curtain with relay to sync operation with window Model: QSK1025AA-BK. Air curtain mounts to transom.

C. Alternate Impact-Resistant and Florida Product Approved Option, Miami Dade Horizontal Bi-Parting Impact Slider

1. Quikserv Model: BP-7241E-IP-CHIPOTLE, Complete Unit Size: 72"W x 41"H.
   a. Service Opening: 29-1/2"W x 27"H
   b. Rough Opening: 72-1/2"W x 41-1/2"H
   c. Glass: Impact Resistant Glass
   d. 'CHIPOTLE' package includes ambient air curtain
      i. Ambient Air Curtain: Model: QSK1025AA-BK, Part Number: 9345.
      ii. Do not mount directly to window, mount on wall above.
   e. Miami-Dade NOA #18-0814.02

2.3 Electrical Requirements

A. Quikserv Electrical Windows: 120V / 60 Hz, 20-amp branch circuit, single phase. Power supplied through base of window. Conforms to UL Standard 325 – Certified to CAN/CSA C22.2 NO. 247. Confirm with Electrical Drawings.

1. Heated Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE)
   a. Separate 230V circuit and Power Supply required for heated air curtain. Air curtain pre-wired through window frame with power supply routed to base of window. Confirm with Electrical Drawings.
2. Ambient Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE) and Alternate California Code Option: Model: SS-4035-E-CHIPOTLE-CALI
   a. Separate circuit not required. Window pre-wired to power and sync operation with air curtain.
3. Ambient Air Curtain for Alternate Impact-Resistant and Florida Product Approved Option (Model: BP-7241E-IP-CHIPOTLE):
   a. Connect to main control board on window to power and synchronize operation with opening and closing of window.

B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp dedicated circuit required. Run power to header on fixed panel side.

1. AA300 Heated Air Curtain
   a. Separate 208V /60 hz /40-amp single phase circuit required.
2. AA100 Ambient Air Curtain (Standard and CA window)
   a. Separate 120V / 60hz / 15-amp single phase circuit required. Run power to center of window above header.

3.1 Installation

A. Install in accordance with manufacturer's instructions.
B. Install pass-thru windows plumb, level, square, true to line, and without warp or rack. Maintain dimensional tolerances and alignment with adjacent Work.
C. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
D. Install pass-thru window components weathertight.
E. Anchor pass-thru windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
F. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
G. Coordinate installation of related sheet metal flashing as specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
H. Install perimeter joint sealants as specified in Section 07 91 23 - Backer Rods.

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
   2. ANSI/BHMA A156 Series Builders Hardware

B. Quality Assurance:
   1. Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
   2. Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
   3. Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
   4. After hardware schedule acceptance, provide necessary templates or physical hardware to required trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.

2.1 Materials:

A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.

B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.
   1. Top Butts: 5 inches; top of butt from head of frame.
   2. Middle Butts: 3'-2", centerline from finish floor.
   3. Bottom Butts: 5 inches; finish floor to bottom of butt.
   4. Locks: centerline from finish floor per hardware schedule.
   5. Knobs: 3'-2", centerline from finish floor.
   6. Pulls: centerline from finish floor per hardware schedule.
   7. Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

1.1 General: Provide glass and glazing as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. CPSC 16 CFR Part 1201 (1-91)"Safety Standard for Architectural Glazing Materials."
   2. GANA "Glazing Manual - 1990."

B. Quality Assurance:
   1. Codes and standards: Provide type of glass and glazing products that comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Comply with all applicable codes, standards and regulations that control safety glazing materials and installation.
   2. System Performance: Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal movement, wind loading and, where applicable, impact loading, without failure including loss or breakage of glass, failure of glazing sealants or gaskets to remain watertight and airtight, deterioration of glass and glazing materials and other defects in the work.
   3. Installation: Performed only by experienced glaziers.

C. Warranty:
   1. Insulating glass: Five years from date of installation against defects that materially obstruct vision through the glass or affect thermal and physical integrity.

2.1 Materials:

A. Glass:
   1. Float Glass (FG): 1/4" thick clear float glass.
   2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
   3. Insulating Glass (IGL): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
      a. Low-emissivity coating on #2 surface.
      b. Visible Light Transmittance: 64% - 70%
      c. Visible Light Reflectance - Outdoors: 9%-11%
      d. Solar Energy Transmittance: 32%-34%
      e. Solar Energy Reflactance-Outdoors: 30%-34%
      f. U-Value - Winter Night: 0.29
      g. U-value - Summer days: 0.28
      h. Solar Heat gain Coefficient: **Per Sheet G001**
      i. Shading Coefficient: **Per Sheet G001**
      j. Manufacturers/Products:
         i. AGC/Comfort Ti-AC40, or similar to meet code
         ii. Sun Guard/SN-68, or similar to meet code
         iii. PPG/Solarban 60, or similar to meet code
         iv. Viracon/VE1-2M, or similar to meet code
   4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
   5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

B. Glazing Materials:
   1. Glazing Sealants: Provide elastomeric glazing sealants suitable for applications indicated; compatible with one another and with other materials they will contact, complying with ASTM C920.
   2. Glazing Tape: Provide preformed, non-staining and non-migrating elastomeric tape, as recommended by tape and glass manufacturers for application indicated, complying with ASTM C 1281.
   3. Glazing gaskets: Provide manufacturer's standard snap-on aluminum stops and neoprene, vinyl or EPDM glazing gaskets.
   4. Provide setting blocks, spacers and edge blocks of material, size, and shape complying with referenced glazing standard, and compatible with surfaces contacted in installation.

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

A. Preparation:
   1. Field verify measurements and conditions of installation.
   2. Examine all details. Provide proper fitting to details indicated.
   3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.

B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
   1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).

C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.

D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.

E. Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1.1 General: Provide gypsum board systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. GA 214-90 "Levels of Gypsum Board Finish."
   2. GA-216 "Specifications for Application and Finishing of Gypsum Board."
   3. USG "SA923 Drywall/Steel Framed Systems."

2.1 Materials:

A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.

B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
   1. Partition metal framing:
      a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
      b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.

C. Ceiling and Soffit metal framing/suspension systems:
   1. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
   2. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
   3. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.

D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
   1. General use panels: Sheetrock Regular panels.
   2. Fire rated panels: Sheetrock Firecode Core panels.
   3. Water-resistant: panels: Sheetrock HUMITEK panels.

E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "W" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.

G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 200B casing bead metal trim, No. 093 Control Joint.

H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.

I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.

J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.

K. Sound attenuation insulation: USG Thermafiber unfaced 3-1/2" thick, mineral fiber insulating batts/blankets; standard lengths and widths required to coordinate with spaces insulated.

3.1 Installation

A. Install metal wall and partition framing and ceiling suspension/ support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.
   1. Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
   2. Wall and partition framing:
      a. Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
      b. Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace tops of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
      c. Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
      d. Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.

B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
   1. Screw fasten all gypsum board panels.
   2. Metal Trim: Install metal corner beads at external corners of gypsum board work and metal trim wherever edge of gypsum board would be exposed. Use longest practical lengths.
   3. Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

C. Acoustical Treatment:
   1. Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions.
   2. Install sound attenuation insulation at scheduled partitions and ceilings. Install insulation in single layer of required thickness. Extend full thickness over entire area to be insulated. Cut and fit tight around obstructions. Fill all voids.
   3. At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
   4. Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.

D. Finishing:
   1. Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
   2. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
   3. Interior Exposed Gypsum Board Finish: Level 5 Finish.
      a. Locations: Typical for all walls and ceilings, unless otherwise indicated
      b. Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
      c. Embedding and First Coat: Setting-type joint or taping compound.
      d. Fill (Second) Coat: Setting-type topping compound.
      e. Fill (Third) Coat: Setting-type topping compound.
      f. Finish (Fourth) Coat: Skim coat entire surface.
   4. Interior Concealed Gypsum Board: Level 3 Partial Finishing.
      a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.

E. Cement Board: Install cement board as a 16" high base at all kitchen and kitchen cook line wall types as indicated on drawings.

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide Fiberglass-mat faced, moisture resistant gypsum backer board as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
   2. ASTM C1002 Standard Specifiation for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
   3. ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
   4. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
   5. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
   6. ASTM E96 Standard Test Methods for Water Vapor Transmision of Materials
   7. Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.

2.1 Materials:

A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com

B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
   1. General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufactuer's recommendations:
   1. Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
   2. Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw

D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems

3.1 Installation

A. Install DenShield at all tile walls excluding hood area as indicated on drawings.

B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
   1. Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
      a. Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
      b. DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
      c. For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
      d. Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
      e. In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
      f. Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
      g. Do not use all purpose joint compound or tape in wet areas.
      h. Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
      i. DensShield Tile Backer should not be used for exterior installations.
      j. DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
      k. DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.

C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

1.1 General: Provide quarry tile flooring and base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com
   2. Waterproofing, Setting and Grouting Materials:
      a. Setting and Grouting Materials and Tile Base Membrane: Mapei
         i. For ordering purposes, email all orders to chipotle@daltile.com
         ii. For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com

B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" 0T03
   1. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
   2. Rest Rooms: Provide non-abrasive finish quarry tile.
   3. Outside Corner Cove Base (Kitchen): #QC-(L or R)-3565 5" x 6"
   4. Inside Corner Cove Base: #QB-3565 1" x 5"
   5. Bullnose Coveless Base: #Q-1665, 6" x 6"
   6. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"

C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
E. Grout: Mapei, Keraposy lEG CQ, Color: #9, "Gray", 1/4" grout joints.
F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Preparation: Clean substrate surfaces, scheduled to receive quarry tile, thoroughly and remove all coatings that may impair bond.
   1. Center tile fields both directions in each floor area. Adjust layout to minimize tile cutting. Avoid tile less than one-half size. Locate cuts to be least conspicuous.
   2. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.

B. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive quarry tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up vertical wall surfaces minimum 10" high.
   2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

C. Wet Areas: Install waterproofing membrane at all quarry tile wall base. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up all vertical wall surfaces receiving quarry tile base minimum 10" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces receiving quarry tile base.

D. Installation: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   1. Floors: Latex-portland cement mortar on concrete; TCA detail F113 and ANSI A108.5, grout ANSI A108.10.
   2. Base: Latex-portland cement mortar on cement board.

SECTION 09340 - CERAMIC TILE

1.1 General: Provide ceramic wall tile as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Ceramic Tile and Accent Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com

B. Ceramic Tile:
   1. Kitchen Tile, or as noted in plans, Series - Finish Line Glazed Ceramic Tile:
      a. Color - White FL90, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
   2. Accent Tile, Series - Color Wheel Glazed Ceramic
      a. Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
      b. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
         i. Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Stacked Bond
         ii. Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

C. Setting Adhesive: Thinset Mortar, Mapei, Ultraflex LFT - Gray

D. Grout:
   1. Kitchen Tile or as noted in plans
      a. Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
   2. Accent Tile
      a. Mapei, Series - Flexcolor CQ - Chocolate #07, 1/8" grout joints.

3.1 Installation

A. Preparation: Clean substrate surfaces scheduled to receive ceramic tile thoroughly and remove all coatings that may impair bond.
   1. Protect surrounding work from damage.
   2. Remove any curing compounds or other contaminates.
   3. Vacuum clean surfaces and damp clean.
   4. Install cementitious backer board or glass-mat faced gypsum backing board as indicated in drawings in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
   5. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

B. Kitchen:
   1. Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   2. Lay tile in horizontal stack bond, following detail drawings for layout considerations. Horizontal rows of tile shall be full-height courses, unless noted otherwise.
   3. Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of the wall is a tile-to-gypsum board transition. Do not interrupt tile pattern through openings.
   4. Use specified stainless steel corner guards at tile-to-tile and tile-to-FRP outside corners.
   5. Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile.
   6. Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board, tile meets FRP or tile meets aluminum.
   7. Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
   8. Sound tile after setting. Replace hollow sounding units.
   9. Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. Refer to section 07900 Joint Sealers.
   10. Clean tile and grout surfaces.

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Contents:

ARCHITECTURAL SPECIFICATIONS

G015

SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide acoustical ceiling systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. CISCA "Acoustical Ceilings - Use and Practice."
2. ASTM C635.
3. ASTM C636.

B. Related Sections:
1. 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

2.1 Materials:

A. Manufacturer:
1. USG Interiors, Inc., (800) 950-3839, www.usg.com
2. Pittcon Industries, (800) 637-7638, www.pittconindustries.com

B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".

C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
1. Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
2. Light pocket endcap should only be installed when the end of the cove is not against a wall.

D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
3. Hanger Wire: No. 12 SWG galvanized steel wire.
4. Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/DXL with 15/16" wide face tees, color: black

3.1 Installation

A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.

B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".

C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.

D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.

E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.

F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.

G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

1.1 General: Provide resilient rubber wall base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM D 2240 Rubber - 85 Shore A

2.1 Materials:

A. Manufacturer: Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com
1. Basis-of-Design Product Rubber Wall Base:
a. Resilient Rubber:
1. .125" (3.17 mm) Thickness
2. "Black" color
3. Straight (toeless) or coved as specified on finish plan
4. Inside and outside corners with 4" returns.

B. Alternate Wall Base only when approved by Arch PM and Chipotle DM.
1. Vinyl Wall Base
a. .125" (3.17 mm) Thickness
b. "Black" color
c. Straight (toeless) or coved as specified on finish plan
d. Inside and outside corners with 4" returns.

C. Setting Adhesive
1. For porous surface applications: Johnsonite 960 Acrylic Cove Base Adhesive
2. For non-porous surface applications: Johnsonite 946 Contact Bond Adhesive or polymer based alternative

3.1 Installation:

A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.

B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide Stonewood solid phenolic panels and accessories for interior walls and millwork as shown and specified.

1.2 Related Sections:

A. Section 05400 - Cold Formed Metal Framing

B. Section 06210 - Finish Carpentry and Millwork

C. Section 07900 - Joint Sealers

D. Section 09260 - Gypsum Board Systems

1.3 Standards: Materials and construction shall conform to the following:

A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.

B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.

D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.

B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

A. Manufacturer's Qualifications:
1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
2. Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.

B. Fabricator:
1. Fabricated by the manufacturer, and/or;
2. Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.

C. Installer
1. Proven professional installer with a minimum of 5 years of documented experience.
2. Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

A. Refer to Section 01400 Quality Requirements.

B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.

C. Storage:
1. Keep panels dry and stored indoors in original packaging until installation.
2. Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
3. Do not store directly on cold concrete floors as moisture may migrate.
4. Do not store under heating units or air conditioning units.
5. Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
6. Reseal plastic wrap if partial load is used.
7. Keep foam dividers in place.

D. Handling:
1. Handle materials in accordance with manufacturer's instructions.
2. Protect materials during handling to prevent damage.
3. When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

A. Limited Warranty: Fibbers warrants Stonewood for a period of 10 years. Refer to www.stonewoodpanels.com for details.

1.8 Project Conditions:

A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

A. Fiberesin Industries, Inc. PO Box 808, Oconomowoc, WI 53066. Phone: (262) 567-4427, Fax: (262) 567-4814,
Web Site: www.stonewoodpanels.com Email: info@fiberesin.com

B. Made in the United States from materials sourced in the USA.

2.2 Application:

A. Apply Solid Phenolic Laminate Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Wall Panels are architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings.

2.3 Interior Stonewood:

A. Material: Solid phenolic laminate panel w/o overlay.
B. Color: Black ND
C. Finish: Matte
D. Standard Size: 48"x96", fabricator to trim height to 47"
E. Panel Thickness: 5/16", 1/2"
F. Panel Core: HR Black

2.4 Minimum Material Properties

A. NEMA Requirements:

Description	NEMA Requirements	
Dimensional Change:	3.11	
Length (Machine Direction)	0.3% Maximum	0.25%
Width (Cross Direction)	0.7% Maximum	0.50%
Density (PCF)	82	

B. Mechanical Properties:

Property	NEMA Requirements	
Flexural Strength ASTM D-790		
MD (psi)	18,000	20,000
CD (psi)	12,000	16,000
Flexural Modulus ASTM D-790		
MD (psi)	1.6x10^6	2.0 x10^6
CD (psi)	1.4x10^6	1.5x10^6
Tensile Modulus ASTM D-638		
MD (psi)	18,000	18,000
CD (psi)	12,000	13,000

C. Fire Resistance:

	Class A (0.250")	Class B (0.250")
Flame Spread Index - ASTM E-84 (BLDG):	5	30
Smoke Developed Values - ASTM E-84 (BLDG):	5	105
Fire Rating (Standard Product is Class B):	A	B

D. Manufacturing Tolerance:

Thickness (.156 to .375)	+/- .020
Thickness (above .375 to 1.000)	+/- .030
CNC Shaped Size (Length - Width)	+/- .020
Drill Diameter	+/- .003
Drill Depth	+/- .020
CNC Hole to Hole	+/- .020
CNC Hole to Edge (1 Oper)	+/- .020
CNC Hole to Edge (2 Oper)	+/- .030
Routing - (Slots Width and Length)	+/- .015
Routing - (Slots Depth)	+/- .020

2.5 Accessories (Fasteners):

A. Panel Fasteners: #10 x 1-1/4" flat phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.
B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.
C. Fasteners shall by designed to withstand effects of dead load and accommodate hydrothermal expansion/contraction of panel.
D. Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of composite wall panels unless otherwise indicated.

3.1 Manufacturer's Execution Instructions:

A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2 Examination:

A. Verify correct panels received including dimension, tolerance, color/texture.
B. Verify correct attachment system received for the specific project/job.
C. Verify all the documents including shop drawing and installation guidelines.
D. Verify installation conditions are satisfactory to receive work of this section before the commencement
E. Verify substrate installation is complete, flat, and true to plane.
F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 Preparation:

A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
B. Protect surrounding areas and surfaces to preclude damage during work of this section.
C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations.
D. Verify locations of joints and panel lengths.

3.4 Installation:

A. Conform to manufacturer's instructions and provisions of shop drawings.
B. Install to allow hydro-thermal expansion/contraction.
C. Use appropriate techniques/tools to work with the panel.
D. Do not force to fit, do not bend, stretch/compress.
E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces.
F. Do not install damaged or questionable panels.
G. Install solid phenolic wall panels plumb and level and accurately spaced.
H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
I. Shim or otherwise plumb substrates receiving composite wall panels.
J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.

3.5 Erection Tolerances:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.6 Field Quality Control:

A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's /supplier's instructions and installation manual, shop drawings etc.

3.7 Adjusting:

A. Correct identified defects and irregularities.
B. Replace damaged soiled, and discolored work.

3.8 Cleaning:

A. Leave installation clean and free from residue and debris from work of this Section.
B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

SECTION 09900 - PAINTS AND COATINGS

1.1 General: Provide paints and coatings as shown and specified.

A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.

B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.3 Summary:

A. This section includes surface preparation and field painting of the following:
1. Exposed exterior items and surfaces.
2. Exposed interior items and surfaces.
3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

1.4 Quality Assurance:

A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.

1.5 Delivery, Storage and Handling:

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
1. Product name or tile of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

1.6 Project Conditions

A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.

B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).

C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces.
1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

2.1 Manufacturers:

A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.

B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
1. PPG Industries, Inc.
2. Materials - No substitutions allowed.

2.2 Paint Materials, General

A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

Colors: Color guided selected by owner and will be strictly adhered too, unless otherwise noted.

C. Exterior Coatings:

Exterior Ferrous Metals:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from steel surface. Uniformly roughen surface with 150-grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional or HVLP (high volume low pressure)

Exterior and Interior Gas Piping:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) Coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) Coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils
Application: Conventional or HVLP (high volume low pressure)

Exterior Patio Railing:

Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminates from steel surface. Remove all dust before solvent cleaning SSPC-SP1 by the use of stiff bristle brush. SSPC-SP3 may be required as a more aggressive preparation to remove loose mill scale, loose rust, loose paint and other loose detrimental foreign matter from the surface. Performance is better with more aggressive preparation.
Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Prefinished Metal Wall Panels:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603XI Alkali Resistant Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat XIM Primer Bond - Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Finish: (2) coats PPG; 90-1110 Series Pitt-Tech Satin DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Galvanized Metal:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-503 Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat PPG; 6-209 SpeedHide Galvanized Metal Primer (400 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

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Exterior CMU Primer:

CMU Preparation: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.

Field Preparation: Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding.

Prime: (2) Coats PPG; Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler

Application: Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils.
Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils.
Application: Airless spray with back roll using 3/4" nap roller.

Exterior Wood:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PP649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils.
Application: Brush, Roll or Spray

D. Interior Coatings:

Interior Metals: (Doors, door frames, where indicated)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.)
Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Metals: (Metal Deck if indicated on Finish Plan)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Primer only required on unpainted decking or to spot prime bare areas in decking.)
Finish: (2) coats PPG; 90-1110 Pitt-Tech Plus Satin Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Gyp. Bd.:
Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions. Fill hairline cracks, holes and other defects with filler compatible with finish coats. Sand smooth all areas filled and/or areas to make a smooth overall finish.
Prime: (1 coat PPG; 9-900 Pure Performance Acrylic Primer (0 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils. (Spot prime required only on repaint projects.)
Finish: (2) coats PPG; Pure Performance Zero VOC Eggshell 9-500 Series, sheen as shown on finish plan: Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:
(Plywood finishes shall be shop applied in a controlled environment)

Shop Preparation: Scuff sand between coats.

Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
Application: Spray

Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.

Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking.:
Preparation: All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion.

For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.
Owner Option 1:
Finish: (1) coat PPG; A-2886B Type II, White Zone Marking - Applied at a dry film thickness of not less than 8.6 mils.

Owner Option 2:
Finish: (1) coat PPG; A-2886B Type II, Yellow Zone Marking - Applied at a dry film thickness of not less than 8.6 mils

Application: Applying a test strip to determine dry to no- pickup time when the humidity is higher than 65%. Cone whenever necessary.
• Do not heat paint in striping system above 60 C.
• Do not apply when temperatures are below 3 C.
• Do not apply when rain is forecast.
• Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
• Do not thin more than 5% with acetone and then use immediately.
• Do not apply if temperature is expected to fall below freezing for 6 hours after application of paint.
Application Equipment: Apply with a high quality brush, roller, or by airless spray equipment.

Airless Spray: Pressure 2000 psi, tip 0.015" - 0.021"Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coating s into the skin by airless equipment may cause serious injury.
Brush: Polyester/Nylon Brush
Roller: All-purpose nap roller cover.

E. Color Guide: Refer to Finish Plan and drawings for exact location of all colors.

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V52-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-4110XI Flat	PPG 1041-1 "Moonlit Snow"	Flat	C3
Restroom, Cooking, Kitchen and Serving Area Soffit Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-500 Series	PPG 1041-1 "Moonlit Snow"	Eggshell	C3
Interior Metal Roof Deck and Metal Columns	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1013-5 "Victorian Pewter"	Satin	C1
Patio Railing	Durethane DTM Urethane 95-3300 Series	PPG 1001-6 "Knight's Armor"	Gloss	N/A

3.1 Installation:

A. Examination:
1. Verify that site environmental conditions are appropriate for application of coatings specified.
2. Immediately prior to coating application, ensure that surfaces to receive coatings are dry.
3. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.
4. Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.
5. Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.

B. Preparation:
1. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.
2. Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.
3. Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.
4. Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.
5. For specific substrate preparation, see individual specifications.
6. Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.

C. Application:
1. General: Mix, prepare and apply paint according to manufacturer's written instructions.
   a. Use applicators and techniques best suited for substrate and type of material being applied.
   b. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
   c. Coating surface treatments, and finishes are indicated in the coating system descriptions.
   d. Provide finish coats compatible with primers used.
   e. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
   a. The number of coats and film thickness required is the same regardless of application method.
   b. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements as directed by Tenant. Paints and coatings work is subject to acceptance by the Tenant.
   c. Keep brushes and rollers clean, free from contamination and suitable for the finish required.
   d. Unless otherwise indicated, allow exterior paints to dry for 48 hours and interior paints to dry for 24 hours between coats.
   e. Sand lightly and remove dust between coats to achieve required finish.
   f. Finished surfaces shall be uniform in finish and color and free of brush marks, sagging, holidays, corduroy and other imperfections. Coverage and hide shall be complete.
   g. Edges of paint or finish adjoining other materials or colors shall be sharp and clean without overlapping. Cut paint in neatly around glass or other edges.
   h. Paints and coatings work is subject to acceptance by the Tenant. Correct unsatisfactory work not complying with these specifications as directed by the Tenant.

D. Cleaning:
1. After completing painting, clean glass and paint spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

E. Protection:
1. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect / Tenant.

2. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.

3. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

F. Maintenance: Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Tenant.
1. Provide one gallon of paint and wood stain of each type and color required for maintenance purposes. Provide original, unopened, labeled containers with color samples and a list of project use.

DIVISION 10 - SPECIALTIES

SECTION 10522 - PORTABLE FIRE EXTINGUISHES

1.1 General: Provide portable fire extinguishers as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. NFPA 10 "Standard for Portable Fire Extinguishers.

2.1 Materials:

A. Provide minimum 10 lb. capacity fire extinguishers in quantity and type complying with local code and fire regulations requirements.
1. Provide new fire extinguishers fully loaded, tested, UL and FM labeled and listed and ready for use.
2. Provide manufacturer's recommended mounting brackets and hardware.

3.1 Installation:

A. Install fire extinguishers in accordance with manufacturer's installation instructions, at heights and locations acceptable to the local fire regulations enforcement authority

SECTION 10700 - EXTRUDED ALUMINUM CANOPY

1.1 General: Provide canopies as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. AWS, D1.1 - Structural Welding Code - Steel
2. AMMA, Aluminum Finishes AAMA 2604 (FGIA 2604) - Powder Coat

B. Quality Assurance
1. Shop Drawings: To be created under the guidance of a professional engineer. Site Specific stamped drawing may be required by the manufacturer based on location. Drawings must indicate size, material and finish. Include plan, elevations and sections to clearly outline the canopy locations. Include installation procedures, details of joints, attachments and clearances.
   a. Submit within 15 days after contract award.
2. Color charts showing manufacturer's full range of colors from standard line including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. – Manufacturer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. P: (800) 962-8027. E: chipotle@arch-fab.com, W: www.arch-fab.com
B. Substitutions are acceptable assuming they comply with this specification, are submitted based on Quality Assurance and Division1 - Section 01100 requirements and have minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.
1. Awnex, Contact: Katie Dicks, P: 770-704-7140 x151, E: katie@awnexinc.com
2. Uni-Structures, Contact: Dana Fredericks, P: 678-974-1773
3. API, Contact: Jade Moore-Esposito, P: 813-925-0144, E: jesposito@americanproducts.com

2.2 Materials:

A. Specifications are based on Architectural Fabrication, Inc. - Helios Canopy Patent #9,976,310
1. Framing: Gutter fascia, tube, angles: 6063-T6 alloy extruded aluminum. Gutter to be notched in the back to allow steel support arms to pass through.
2. Decking: Extruded aluminum 8" wide deck pan in 6063-T6 or 6063-T5 alloy (Roll form is not acceptable)
3. Steel Support Arms: 3" x 3" x .250" Steel tube support arms w/ 8" w x 5"h x 1/2" thick steel plate welded to the back. Must manufacture steel arm in manner to leave room for LED enclosure at back of canopy.
4. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit application and per pre-engineered canopy load requirements. Typical wall anchors are minimum ½" diameter. Touch up paint must be provided for each canopy to allow for potential repairs in the field.
5. Flashing: Shall be minimum 0.040-inch aluminum, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in custom color match. Another equivalent sealant is acceptable.
6. LED Enclosure: Each canopy is to have a preformed aluminum LED enclosure along the back edge of the canopy finished in the same powder coat as the canopy. 1" nominal inside width, and a minimum aluminum sheet thickness of .063".
7. Scuppers: Drainage for canopy is (2) aluminum scuppers located at the front of the canopy per drawings. See finish below for details.
8. Finish: All aluminum shall be powder coat finish per FGIA 2604 (aka AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the top coat of super polyester powder (2604 compliant) applied.

3.1 Installation:

1. Install canopies per manufacturer's written instructions and videos, and as indicated on architectural drawings
2. Locate and place canopies level, plumb and at indicated alignment with adjacent work.
3. Use concealed anchors where possible.
4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.
5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

DIVISION 11- NOT APPLICABLE

DIVISION 12- FURNISHINGS

SECTION 12495 - WINDOW SHADES

1.1 General: Provide window shades as shown and specified.

A. Standards: Shade fabric material shall meet the requirements of the following:
1. NFPA 701 Flame Test and California US Title 19 for flame retardant materials.

B. Field measure window openings and verify installation conditions prior to window shade fabrication

C. Warranty:
1. 5 years against defects in materials and workmanship.
2. 1 year for service call repairs and adjustments.

2.1 Materials:

A. Manufacturer: Insolroll Window Shading Systems, Inc. (800) 447-5534, internet www.insolroll.com

B. Window Shades: Insolroll 2000 Solar Screen Shades, manual operation.
1. Solar Screen Shade Fabric: Insolroll woven fiberglass yarn, 5% openness, Charcoal/Bronze color.
2. Provide manufacturer's recommended mounting brackets and hardware.

C. Fabrication: Unless otherwise indicated, fabricate window shade units to completely fill existing window openings from jamb to jamb and from head to 42" AFF or the nearest horizontal mullion from 40"-44" AFF.
1. Adjustment system controlled by plastic bead chain on polyester cord. Multi-banded steel spring clutches keep shade in desired position.
2. Roller tube 2" extruded aluminum, sized to minimize deflection.
3. Fabric attached to roller tube using two-sided adhesive tape.
4. Fabric bottom hem RF heat sealed pocket with enclosed hem bar.

3.1 Installation:

A. Install window shades level and plumb in accordance with manufacturer's installation instructions and drawing details. Provide units securely anchored in place with recommended hardware and accessories to provide smooth operation without binding.

DIVISIONS 13 - 14 - NOT APPLICABLE

Consultant:

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
303.974.5873
WWW.LINGLEDESIGN.COM



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DENVER CO 80238

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Revisions:

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Project No.
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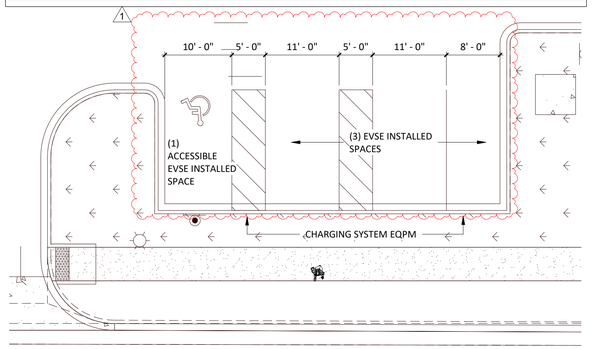
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ARCHITECTURAL SPECIFICATIONS

G017

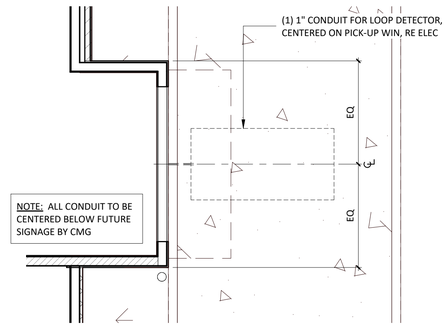
ELECTRIC VEHICLE (EV) CHARGING SPACE TERMS & DEFINITIONS

The below definitions are abbreviated. See DEC and DCBC sections for the full definitions of defined terms.

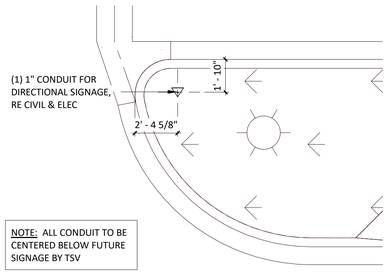
- **EVSE** – Electric Vehicle Supply Equipment for plug-in power transfer between a premises wiring and an electric vehicle.
- **EVSE Installed Space** – Parking space that is provided with an EVSE connection.
- **DCFC EVSE Installed Space** – Parking space that is provided with a Direct Current Fast Charging EVSE.
- **EV Ready Space** – Parking space provided a branch circuit to an outlet, junction box or receptacle for future EVSE.
- **EV Capable Space** – Parking space provided with electrical infrastructure for future EVSE, such as conduit. No electrical service or panel capacity is required.
- **Electrical Vehicle Charging Station** – Vehicle spaces served by an electrical vehicle charging system (i.e., EVSE Installed space or DCFC EVSE Installed space).
- **Accessible EVSE Installed Space** – Parking space provided for an electric vehicle charging station that is designed to be accessible to and usable by people with physical disabilities and complies with Section 1107 of the DCBC and ICC A117.1.
- **Universal Vehicle Charging Station** – Parking space provided for an electric vehicle charging station that can be utilized for all users and complies with Section 1107 of the DCBC and certain sections of ICC A117.1.



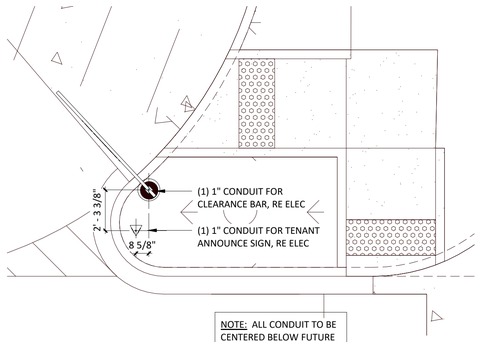
5 SP100 **EV Parking Plan**
3/32" = 1'-0"



4 SP100 **ENLARGED SITE PLAN @LOOP DETECTOR**
1/4" = 1'-0"



3 SP100 **SITE PLAN AT DIRECTIONAL SIGN**
1/4" = 1'-0"



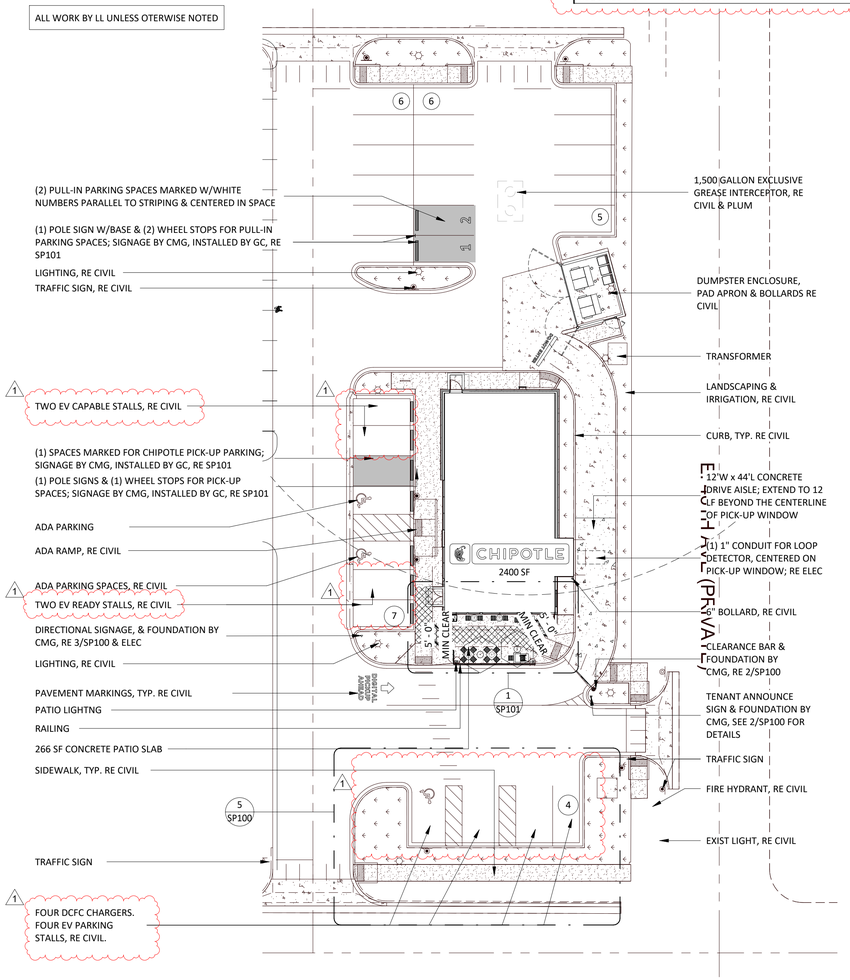
2 SP100 **SITE PLAN AT ANNOUNCE SIGN & CLEARANCE BAR**
1/4" = 1'-0"

GENERAL NOTES

1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.
3. ELECTRIC VEHICLE CHARGIN SERVICE IS SEPERATED FROM THE BUILDING ELECTRICAL SERVICE. THE EV ELECTRICAL SERVICE AND CHARGING IN UNDER A SEPARATE SUBMITTAL. THE REFERANCE NUMBER WILL BE PROVIDED ONCE THAT SUBMITTAL HAS BEEN MADE.

EVSE INSTALLED SPACES
REQUIRED = 3 PROVIDED = 4
EV READY SPACES
REQUIRED = 2 PROVIDED = 2
EV CAPABLE SPACES
REQUIRED = 3 PROVIDED = 2

ALL WORK BY LL UNLESS OTERWISE NOTED



1 SP100 **ARCHITECTURAL SITE PLAN**
3/64" = 1'-0"

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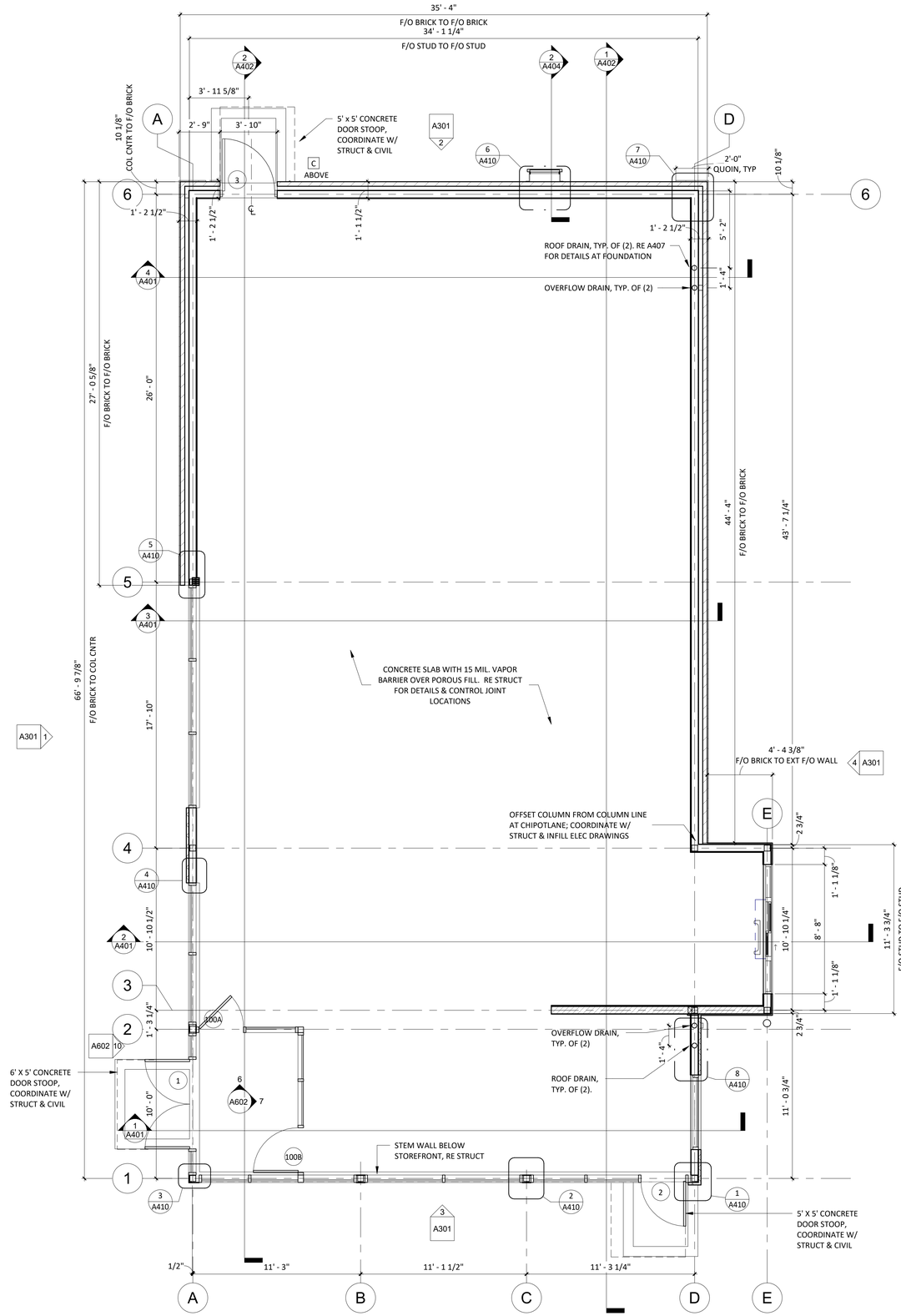
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1 08/07/2024 PERMIT COMMENTS
2 09/09/2024 Revision 2

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Checked: CL

Project No.
05-5119

Contents:
ARCHITECTURAL SITE PLAN

SP100



ARCHITECTURAL SHELL PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

1. REFER TO A601 FOR DOOR INFORMATION & A602 FOR STOREFRONT DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF FRAMING (STUD WALL) OR CENTERLINE OF STRUCTURE UNLESS NOTES OTHERWISE.
3. SEE STRUCTURAL SHEETS FOR ALL STUD FRAMING CONFIGURATIONS, SIZES, SPACING AND GAUGES.
4. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.)
5. TAPE SEALANT AT ALL ANCHOR LOCATIONS.
6. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.
7. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.
8. EXTEND ALL THRU-WALL FLASHING TO 1/4 INCH PAST THE EXTERIOR FACE OF WALL.
9. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.
10. EXTEND FLASHING VERTICALLY A MINIMUM OF 8 INCHES ABOVE THE BASE OF THE FLASHING.
11. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.
12. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS AND JAMBS.

Consultant:

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Issue Record:

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05-5119

Contents:
ARCHITECTURAL SHELL PLAN

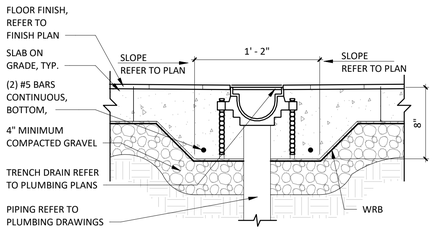
A100

PLUMBING LEGEND

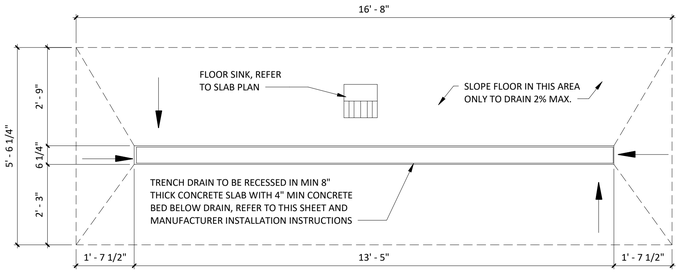
	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

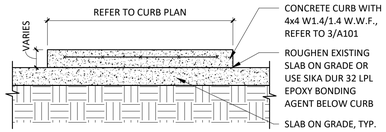
1.	VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.	ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3.	ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS OTHERWISE NOTED.
4.	GC TO REVIEW ELECTRICAL PLANS FOR LIGHTING OR POWER STUB LOCATIONS PRIOR TO POURING SLAB.
5.	REFER TO "03300 - CAST-IN-PLACE CONCRETE" IN SPECIFICATIONS FOR CONCRETE PATCHING OR INSTALLATION INFORMATION.
6.	VERIFY PERIMETER FOUNDATION INSULATION IS EXISTING IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7.	ALL TILED FLOOR TO MAINTAIN POSITIVE SLOPE TO ALL FLOOR DRAINS OF NOT GREATER THAN 2% SLOPE FOR A 4'X4' AREA U.N.O.



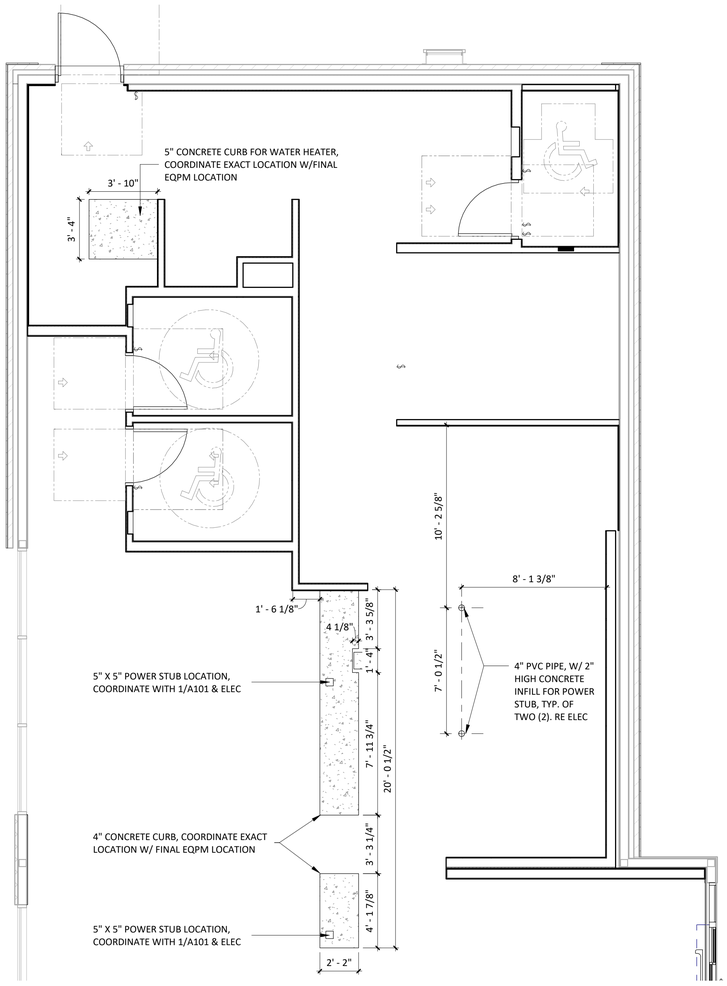
6 A101 **TRENCH DRAIN DETAIL**
1 1/2" = 1'-0"



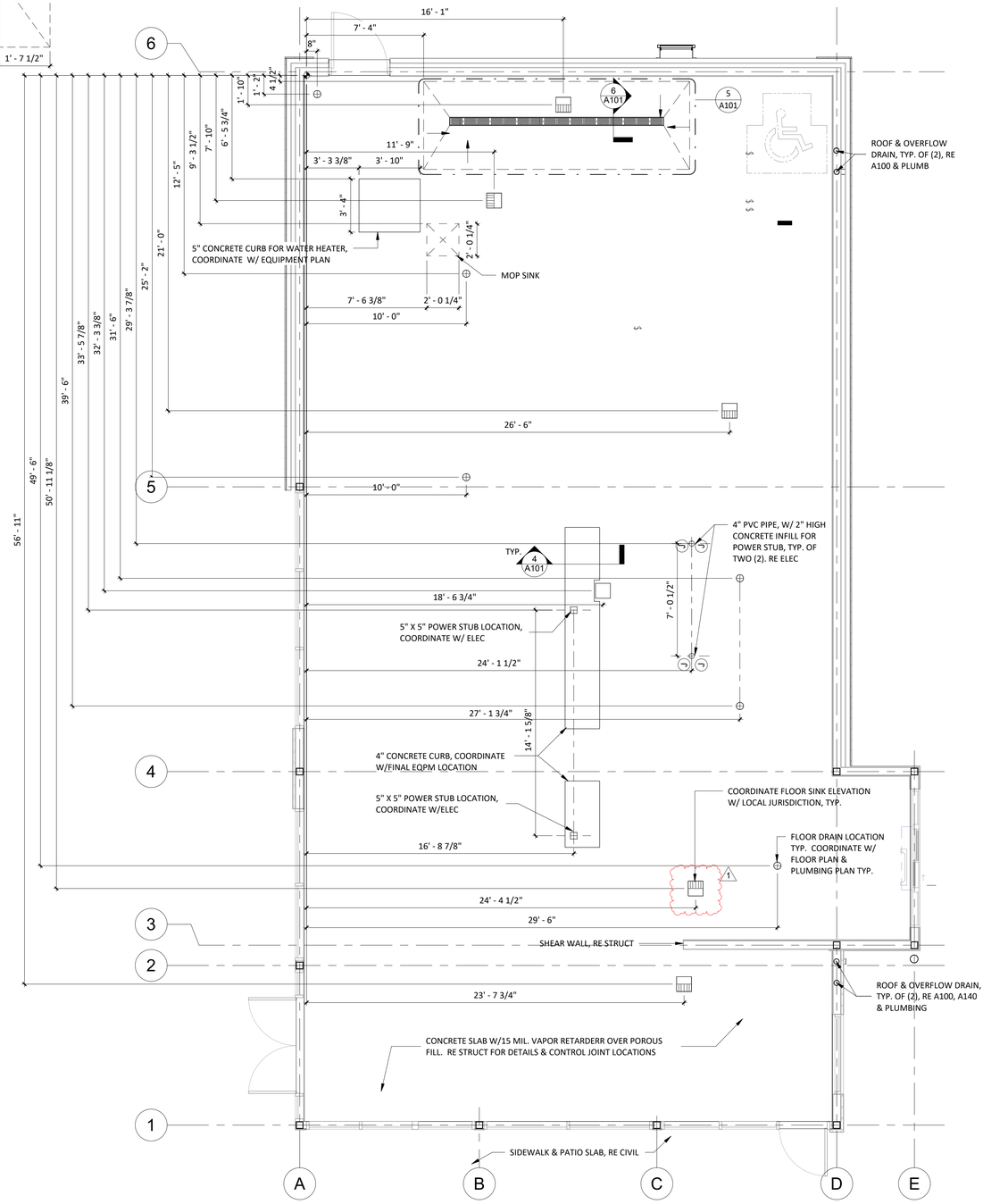
5 A101 **TRENCH DRAIN PLAN DETAIL**
1/2" = 1'-0"



4 A101 **CONCRETE CURB DETAIL**
3/4" = 1'-0"



3 A101 **CURB PLAN**
1/4" = 1'-0"



1 A101 **SLAB WORK PLAN**
1/4" = 1'-0"

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Contents:

SLAB WORK PLAN

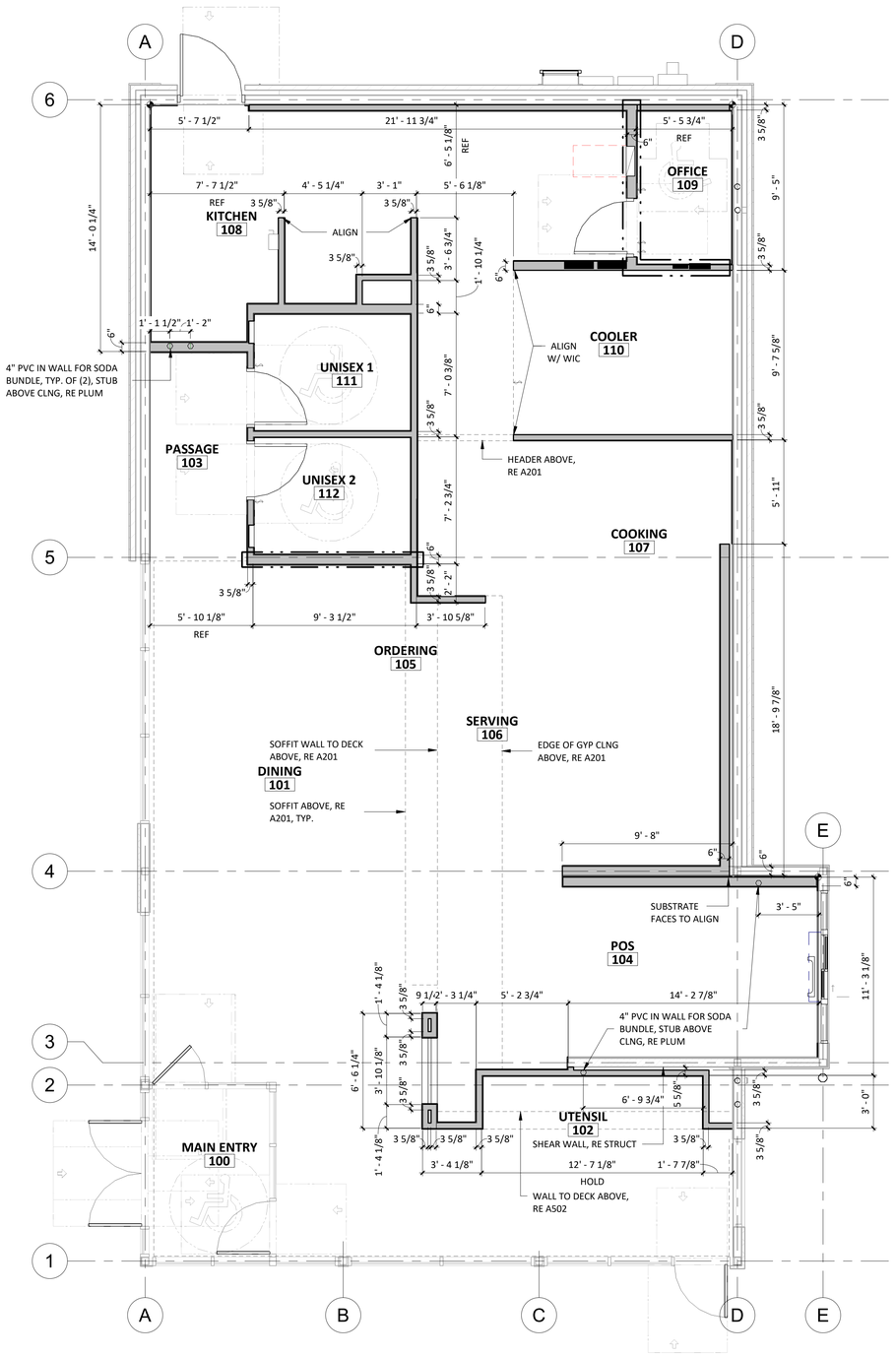
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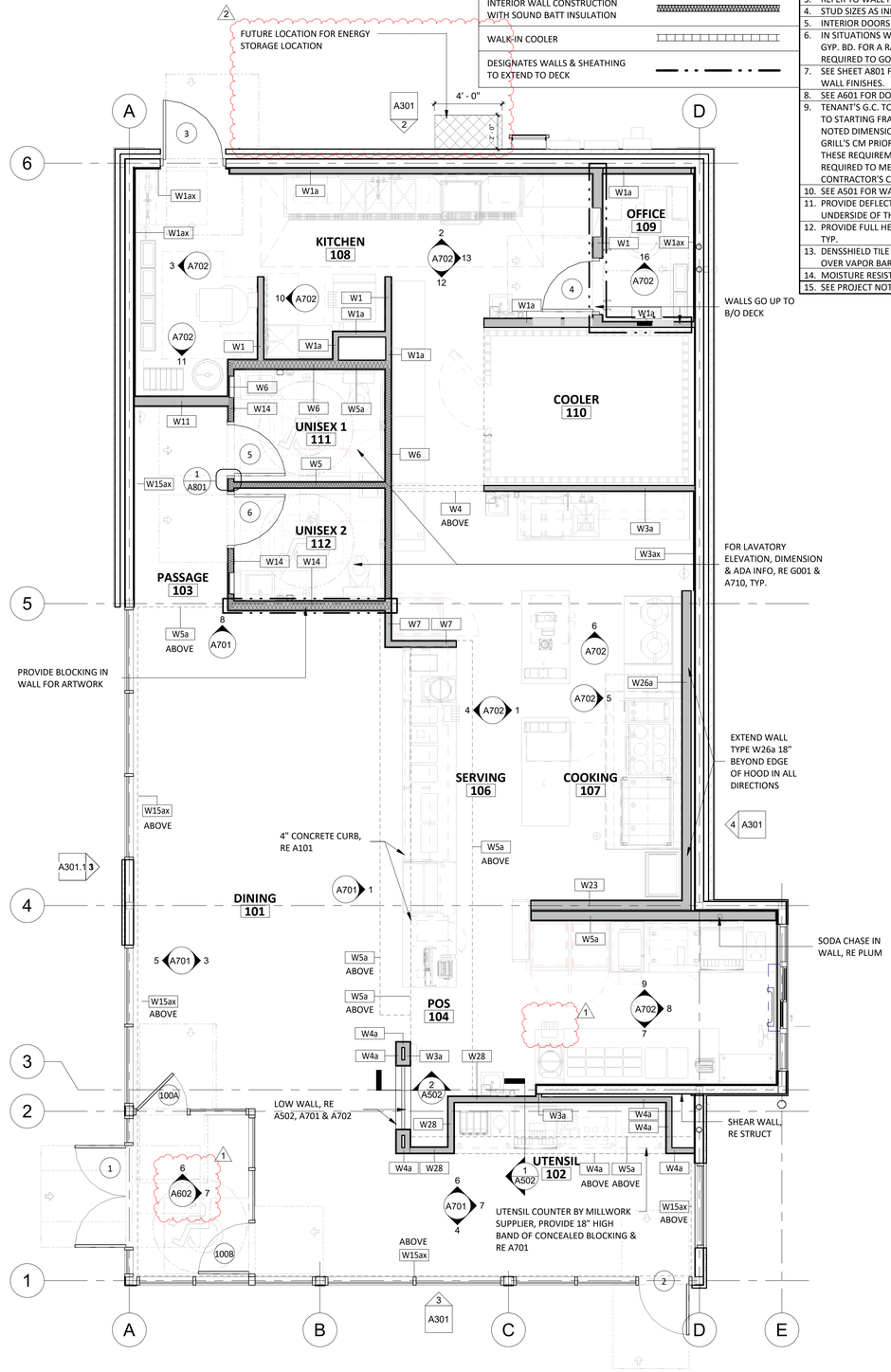
WALL TYPE LEGEND

INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.
2. DASHED CIRCLE IN RESTROOM INDICATES 5'-0" TURNING DIAMETER REQUIRED BY ADA.
3. REFER TO WALL FINISH SCHEDULE ON A120.
4. STUD SIZES AS INDICATED ON PLAN.
5. INTERIOR DOORS ARE 4" OFF OF PERPENDICULAR WALL U.N.O.
6. IN SITUATIONS WHERE TENANT'S G.C. IS TO PROVIDE TYPE 'X' GYP. BD. FOR A RATED ASSEMBLY, THE TYPE 'X' GYP. BD. IS REQUIRED TO GO BENEATH THE SHEATHING AND FINISHES.
7. SEE SHEET A801 FOR ADDITIONAL SHEATHING BEHIND CERTAIN WALL FINISHES.
8. SEE A601 FOR DOOR TYPES.
9. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DESCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL'S CM PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
10. SEE A501 FOR WALL TYPES.
11. PROVIDE DEFLECTION TRACKS AT WALLS WHICH GO TO THE UNDERSIDE OF THE DECKING, REFER TO DETAIL 3/A501
12. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
13. DENSSHIELD TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.
15. SEE PROJECT NOTES ON COVER SHEET.





ARCHITECTURAL FLOOR PLAN - DIMENSIONS

2 / A110 — 1/4" = 1'-0"

ARCHITECTURAL FLOOR PLAN

1 / A110 — 1/4" = 1'-0"

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Contents:

ARCHITECTURAL FLOOR PLAN

A110

CODED NOTES

1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802 & 11/A801.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RIM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT, REFER TO 17/A801.
5	AT LOCATIONS WHERE THE 4-COMP SINK IS AGAINST A SIDE WALL, PROVIDE STAINLESS STEEL ON WALL TO 4" ABOVE TOP OF 4-COMP SINK. FLASH BOTTOM EDGE OVER 4-COMP SINK BACKSPLASH EDGE, BEND STAINLESS AT INSIDE CORNER SO THERE IS NO JOINT
6	COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
7	G.C. TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT THE ICE MAKER.
8	PROVIDE WATERPROOFING MEMBRANE, REFER TO 4&5/A802. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO 18/A801.
9	PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE, REFER TO SHEET 1/802. G.C. TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10	FRP CLOSURE AT COOLER AIR GAP, REFER TO 14/A801
11	NOT USED
12	OUTSIDE CORNER GUARD BY TMS, REFER TO 13/A801
13	ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH
14	NOT USED
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 9/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	EXTENT OF RESINOUS FLOORING FROM RESTROOM

GENERAL NOTES

1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).
4. SEE PROJECT NOTES ON COVER SHEET.

PLUMBING LEGEND

	FLOOR SINK [FS]
⊕	FLOOR DRAIN
	TRENCH DRAIN

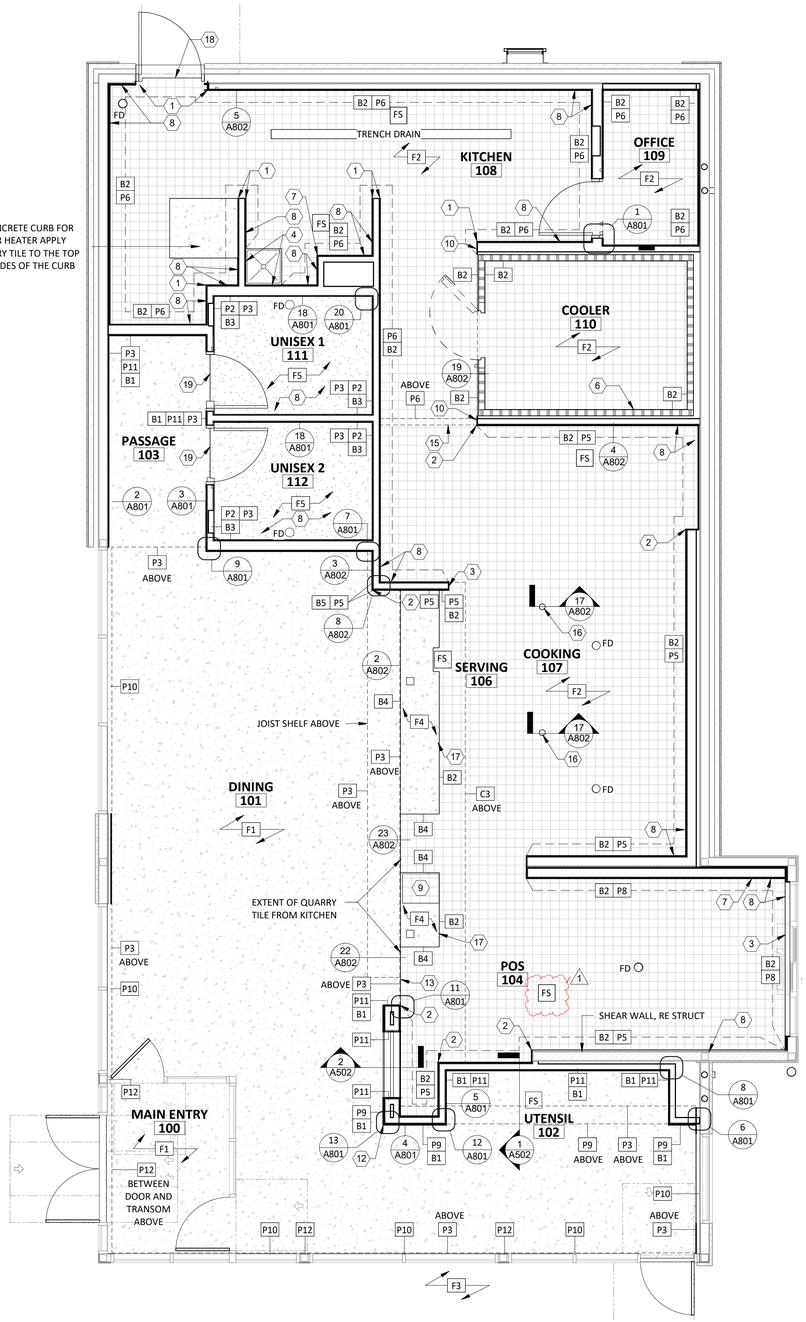
INTERIOR FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE				
				P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)				
				P7	NOT USED				
				P8	CERAMIC TILE - BRONZE ACCENT 3" x 12"				
				P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN				
				P10	STOREFRONT				
				P11	STONEWOOD WALL PANEL				
				P12	PREFINISHED BRAKE METAL				

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	MAIN ENTRY	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F1	B1		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	B1		C3	10'-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
104	POS	F2	B2/B4	REFER TO PLAN FOR WALL FINISHES	C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
105	ORDERING	F1	B1/B4/B5		C1/C3	STR / ±9-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	±9'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	10'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
109	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	F2	B2		STR	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
111	UNISEX 1	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	UNISEX 2	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
113	PATIO						

5" CONCRETE CURB FOR WATER HEATER APPLY QUARRY TILE TO THE TOP AND SIDES OF THE CURB



FINISH PLAN

1/4" = 1'-0"

Consultant:

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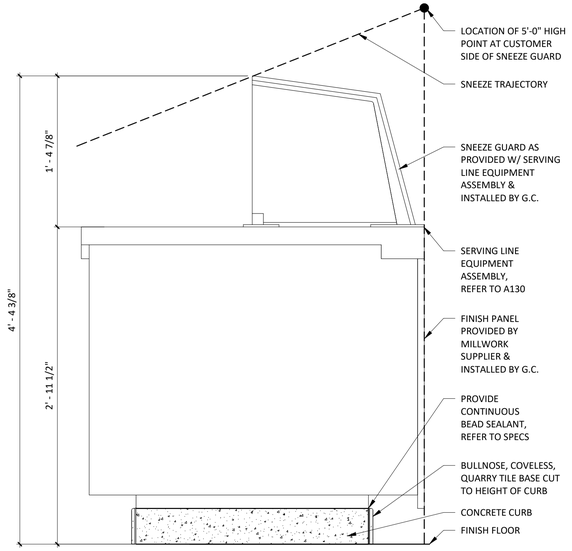
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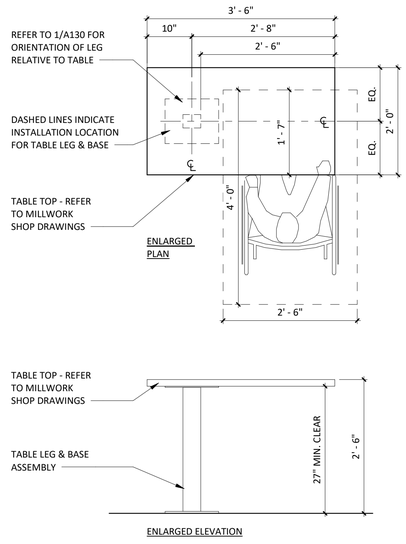
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GENERAL NOTES

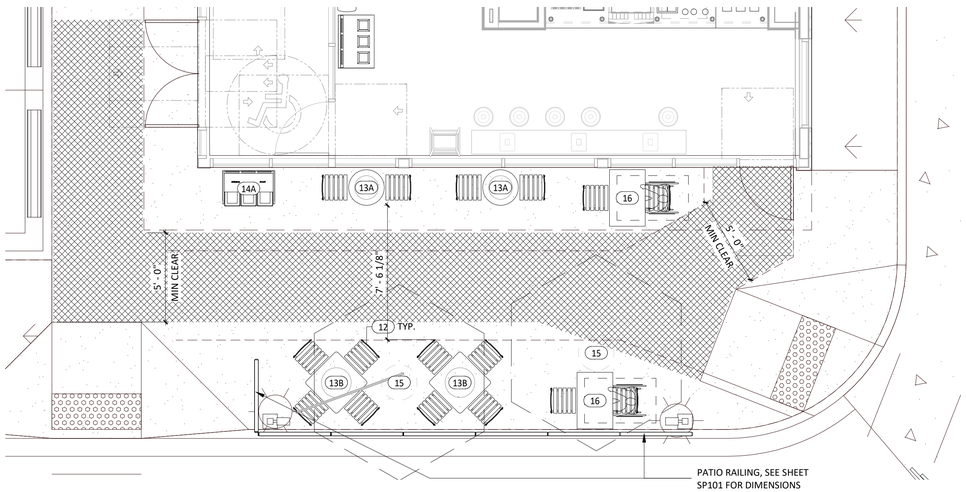
1.	ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
2.	ALL FURNITURE TO BE SQUARE/PARALLEL TO TENANT SPACE/WALLS AS SHOWN ON PLANS
3.	SEE PROJECT NOTES ON COVER SHEET.



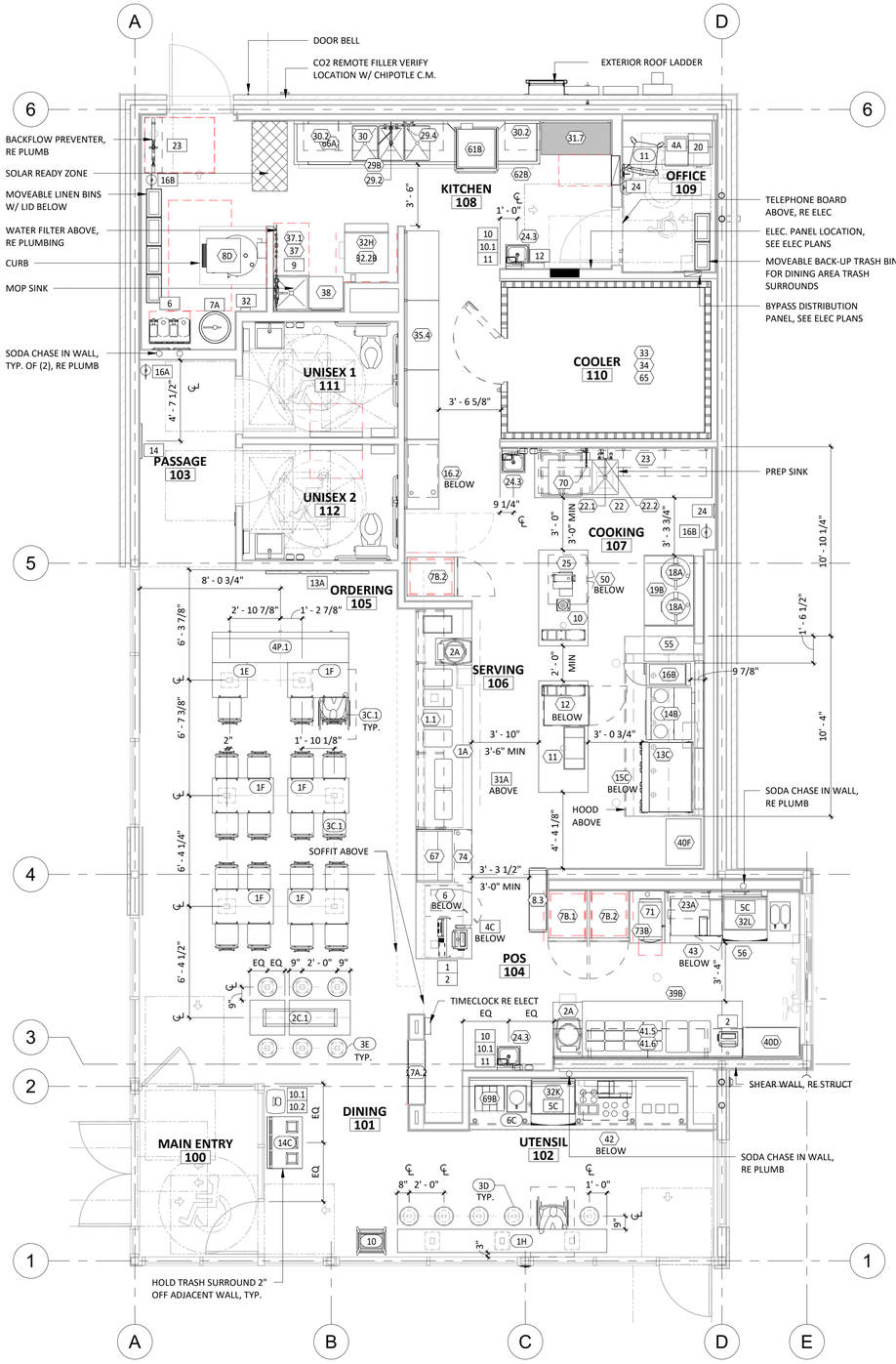
4 A130 **DETAIL @ SERVE LINE SNEEZE GUARD**
1 1/2" = 1'-0"



3 A130 **DETAIL @ ACCESSIBLE TABLE**
3/4" = 1'-0"



2 A130 **FURNITURE, FIXTURE & EQUIPMENT PATIO PLAN**
1/4" = 1'-0"



1 A130 **FURNITURE, FIXTURE & EQUIPMENT PLAN**
1/4" = 1'-0"

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Contents: FF&E PLAN

A130

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.1	Upright Beverage Cooler, Single Door, Hinge Left	Varies	Varies - Solid Door	1	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	2	KES	KES	●				
8.3	M4.5 Chip Shelf	1 W West Equipment & Furn Co.	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Right	Delfield	77x34in Carving Station-RT	1	KES	KES	●				
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
13C	Garland Grill - 48in - Electric	Garland	ECG-48R	1	KES	KES	●				
14B	Range 6 Burner - Electric	Imperial	IR-6-E	1	KES	KES	●				
15C	Garland Grill Stand 48x31in	Garland	SCG-48SC	1	KES	KES					
16.2	Grease Caddy	Varies	Chipotle Grease Caddy - LH	1	KES	KES					
16B	Fryer - Electric	Imperial	IFS-40-E	1	KES	KES	●				Mounted On Legs, G.C. To Pin Front Legs To Floor
17B	Cook Line Stand Off - 60x6	Nationwide Fab; Marlo Mfg	CHP-5WS-6	2	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location
17C	Retherm Line Stand Off - 42x6	Nationwide Fab; Marlo Mfg	CHP-42WS-6	1	KES	KES					Mount Top of Flat Surface at 32" AFF, Install Screws at Each Stud Location
18A	Electric Rice Cooker	Tiger	JIW-A540	2	KES	KES	●				Final Connection by GC. RE: Electrical Drawings
19B	Rice Cooker Stand - Electric	Nationwide Fab; Marlo Mfg	34x48x30	1	KES	KES					
22	Prep Sink - Corner - Left	1 W West Equipment & Furn Co.	S1-122x34-US-FF-L	1	KES	GC				●	
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
23A	2 Shelves - 30in	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	3	KES	GC				●	Provided with B-0199-06-F10, 1.0 GPM Aerator, Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	3	KES	GC			●		
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-1220-8-8-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1D	Ice Maker - Remote Condenser	Scotsman	ERC311-32	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.1E	Ice Maker - Remote Condenser	Scotsman	ERC111-1	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2B	Ice Maker - Storage Bin	Scotsman	B530S	1	KES	KES				●	
32.3	Icemaker- Filter	Cuno	Bev 190	3	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	3	KES	KES			●		
32H	Ice Maker For B.O.H. Ice Bin	Scotsman	CO830MR	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32K	Ice Maker Mounted On Soda Machine - Air Cooled	Scotsman	CO530MA	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32L	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Scotsman	CO530MR	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9ft 6in - Standard	1 Thermalrite by Everidge	CHP912SR-RS	1	WCS	GC	●			●	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x9	Cambro (Camshelving)	CHP912ER	1	KES	KES					
35.4	Dry Storage Racks 23x192x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
40D	Holding Shelf	1 W West Equipment & Furn Co.	TGS-39X20X80-B	1	KES	KES	●				
40F	M4.5 - Filler Stand At Range	Select Stainless	24x32x36	1	KES	KES					
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
43	Beverage Cooler Backbar 36in	Glasstender	LP36X-SS(X)	1	KES	KES	●				
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	1 W West Equipment & Furn Co.	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Chipotlane	W West Equipment & Furn Co.	TS-36x92.5x36	1	KES	GC	●			●	
61B	Dish Machine (w/Pump)	Hobart	AM16SCB	1	KES	KES	●		●	●	
62B	Dish Table 30x30	1 W West Equipment & Furn Co.	CDT-30X30X36.5-B	1	KES	GC					
65	Utility Cart (Not Shown)	Select Stainless	30SU-22-14-C4-TUBS-CUSTOM	1	KES	GC					Provided As Part Of The WIC Shelving
66A	Drop-Off Table - 29x30in	1 W West Equipment & Furn Co.	TS-29x30x31-US-C	1	KES	KES					
67	Refrigerated Counter Case, Self-Serve	Structural Concepts	CO3324R-UC	1	KES	KES					
69B	M4.0 - Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16	1	KES	GC	●			●	
70	Speed Fill Faucet	T&S	B-0432 MOD	1	KES	GC			●		
71	Quesadilla Press	Turbochef	Sota Touch	1	KES	KES	●				
73B	24" TurboChef Table	1 W West Equipment & Furn Co.	24X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

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Contents:
EQUIPMENT SCHEDULE

A131

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	1	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	5	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2C.1	M4.0 - Bar Height Table 6-Top	1	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	19	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	5	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	6	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4P.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				●	Bins and Sign Hooks Provided by Tundra in Smallwares Package, Install Hooks on Back of Doors
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	16	KES	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13A	24in Round Bistro Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
14A	3 Bin Trash/Recycling Surround - Exterior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
15	Patio Umbrella	2	KES	GC					
16	Accessible Patio Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Installed in Office
4C	Smart Safe	1	TSS	TSS	●				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5C		2	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf	1	SPS	SPS	●		●		
7A	Bulk CO2 Tank	1	CO2	CO2	●				GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye
8D	Water Heater (Electric Heat Pump Tank)	1	T	GC	●		●		Refer To MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	3	WA	GC					
10.1	Hand Sanitizer Dispenser	4	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	3	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
13A	M4.0 - Artwork Panel - Plaster 2Hx, Start Pattern At Column 1	1	TAS	GC					Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	2	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	14	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
23	Backflow Preventer	1					●	●	See MEP Sheets for Details
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

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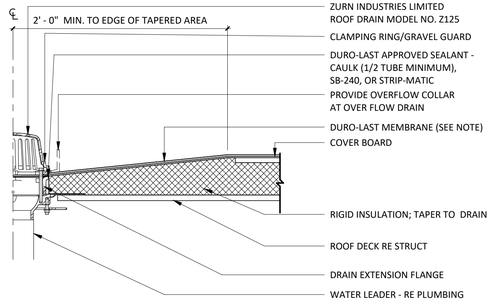
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Project No.: 05-5119

Contents:

EQUIP. & FURNITURE SCHEDULE

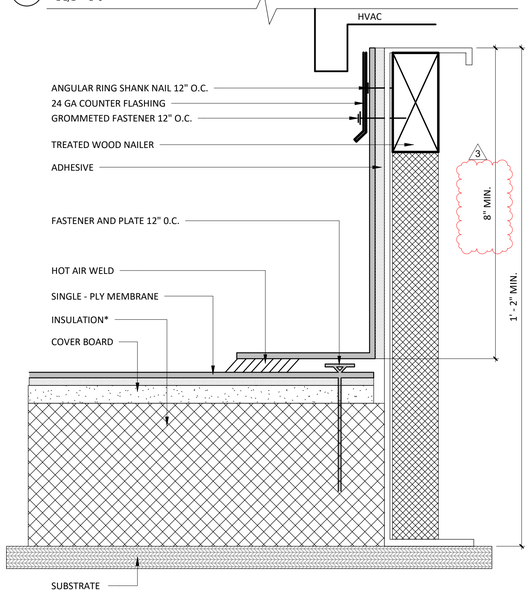
A132



NOTE:
DURO-LAST MEMBRANE MUST EXTEND BEYOND THE INSIDE OF CLAMPING RING. VERIFY OPENING WHERE WATER PASSES THROUGH THE MEMBRANE IS NOT SMALLER THAN THE OPENING OF THE DRAIN.

ROOF DRAIN DETAIL

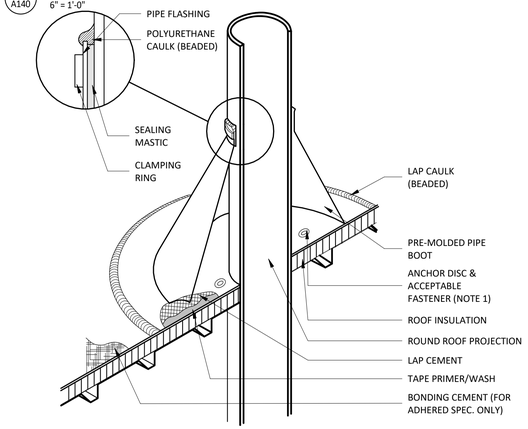
4 / A140 — 1 1/2" = 1'-0"



NOTES:
1. USE PREFABRICATED OUTSIDE CORNERS.
2. *GLASS - FACED POLYISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

CURB FLASHING

3 / A140 — 6" = 1'-0"



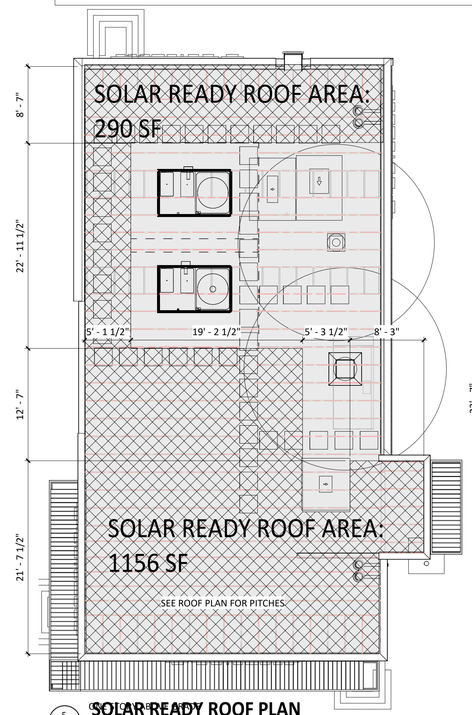
NOTE:
1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING LAP CEMENT.

BOOT DETAIL

2 / A140 — 1/2" = 1'-0"

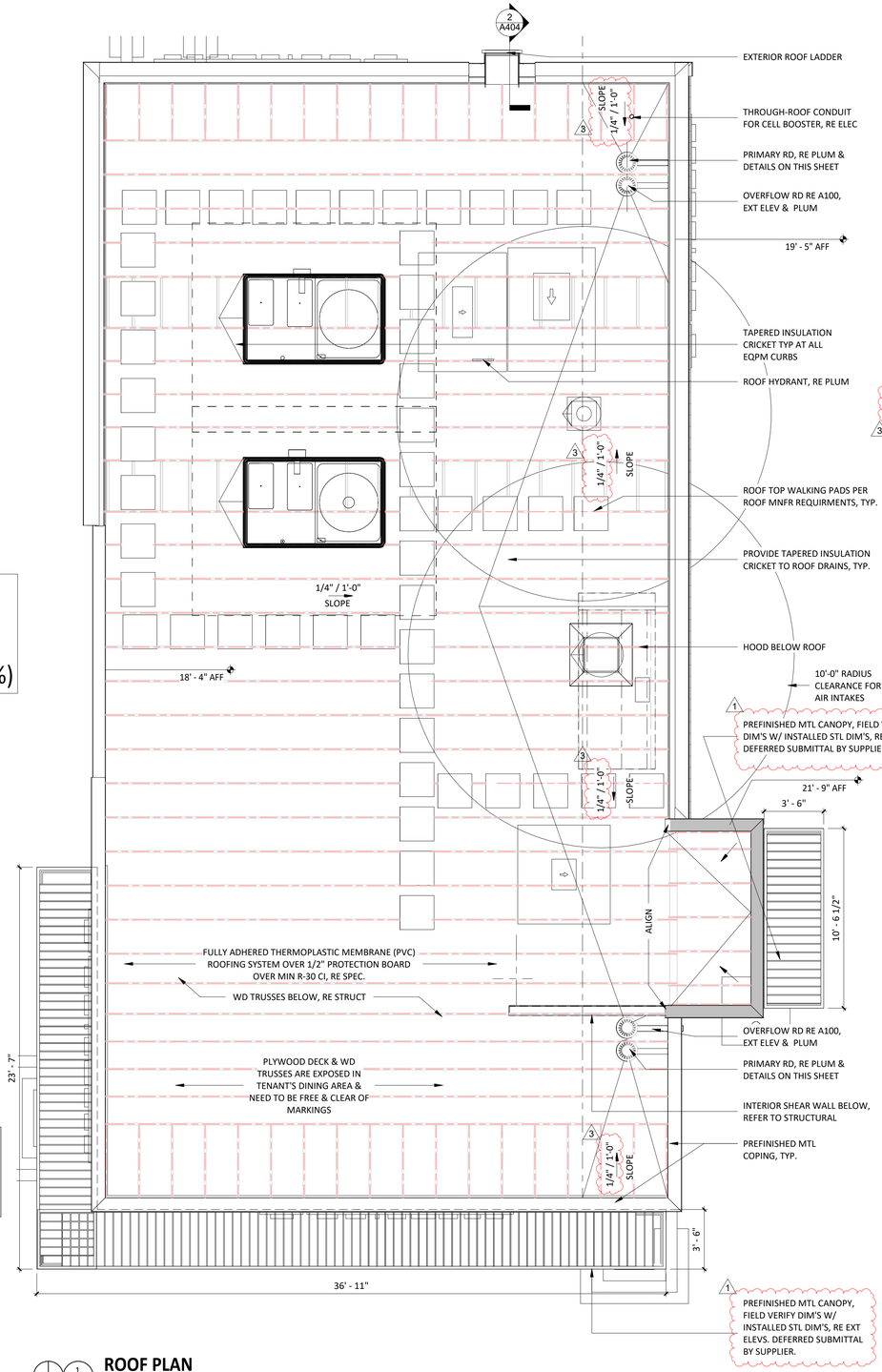
TOTAL ROOF AREA: 2245 SF

SOLAR READY ROOF AREA:
1446 SF (MIN REQ'D 1347 SF (60%)



SOLAR READY ROOF PLAN

5 / A140 — 1/8" = 1'-0"



ROOF PLAN

1 / A140 — 1/4" = 1'-0"

HVAC EQUIPMENT

DESCRIPTION	SUPPLIED BY	INSTALLED BY	REMARKS
EXHAUST FANS & CURBS	HS	GC	
MAKE UP AIR UNIT & CURBS	HS	GC	
ROOF TOP UNITS & CURBS	HES	GC	
TEST & BALANCE SYSTEM	TAB	-	FURNISH HVAC TEST & BALANCE PER TENANT'S NATIONAL ACCOUNT PROGRAM.

GENERAL NOTES

1.	SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
2.	SEE MECHANICAL PLANS FOR ROOFTOP EQUIPMENT.
3.	COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
4.	DIMENSIONS FOR ROOF TOP EQUIPMENT WITH CURBS IS TO THE OUTSIDE FACE OF THE CURB. DIMENSIONS FOR EQUIPMENT WITHOUT CURBS ARE TO THE CENTER OF THE UNIT. ALL DIMENSIONS ARE FOR REFERENCE ONLY. ROOFING CONTRACTOR TO ADJUST AS NECESSARY IN FIELD. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT.
5.	JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED. IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.
6.	SEE M700 FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
7.	PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8.	PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
9.	LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.
10.	SEE PROJECT NOTES ON COVER SHEET.
11.	GC. TO SEAL ALL PERIMETERS, PENETRATIONS, AND JOINTS IN THE DECK AIRTIGHT.

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Contents:

ARCHITECTURAL ROOF PLAN

A140

GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
11.	ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/ OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
12.	ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TIGHT TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PVC SHALL BE INSTALLED IN TRUSS SPACE AND PAINTED VICTORIAN PEWTER.
14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN
18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 4/A210 AND PLUMBING DRAWINGS FOR DETAILS.
21.	REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
22.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
23.	ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C.
24.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C.
25.	SECURITY CAMERA LOCATIONS ARE ONLY APPROXIMATE LOCATIONS. FOR GUIDANCE ON THE SPECIFIC LOCATION/ORIENTATION OF THESE CAMERAS, REFER TO THE ENVYSION INSTALLATION GUIDE
26.	RE A120 FOR FINISH SCHEDULE.
27.	SEE COVER SHEET FOR PROJECT NOTES.

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	6	SSS	SSS	●				

CONDUIT GUIDELINES

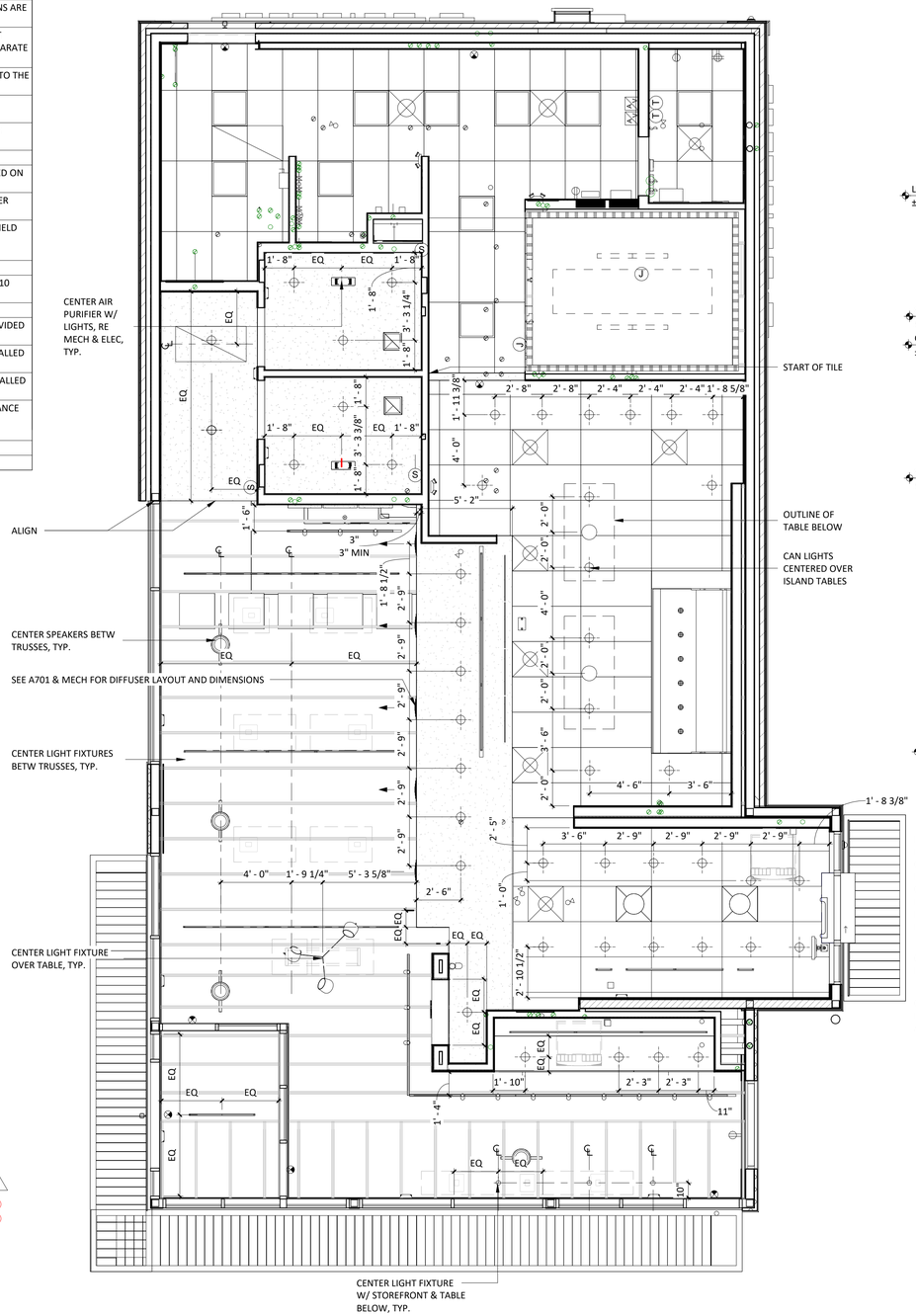
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

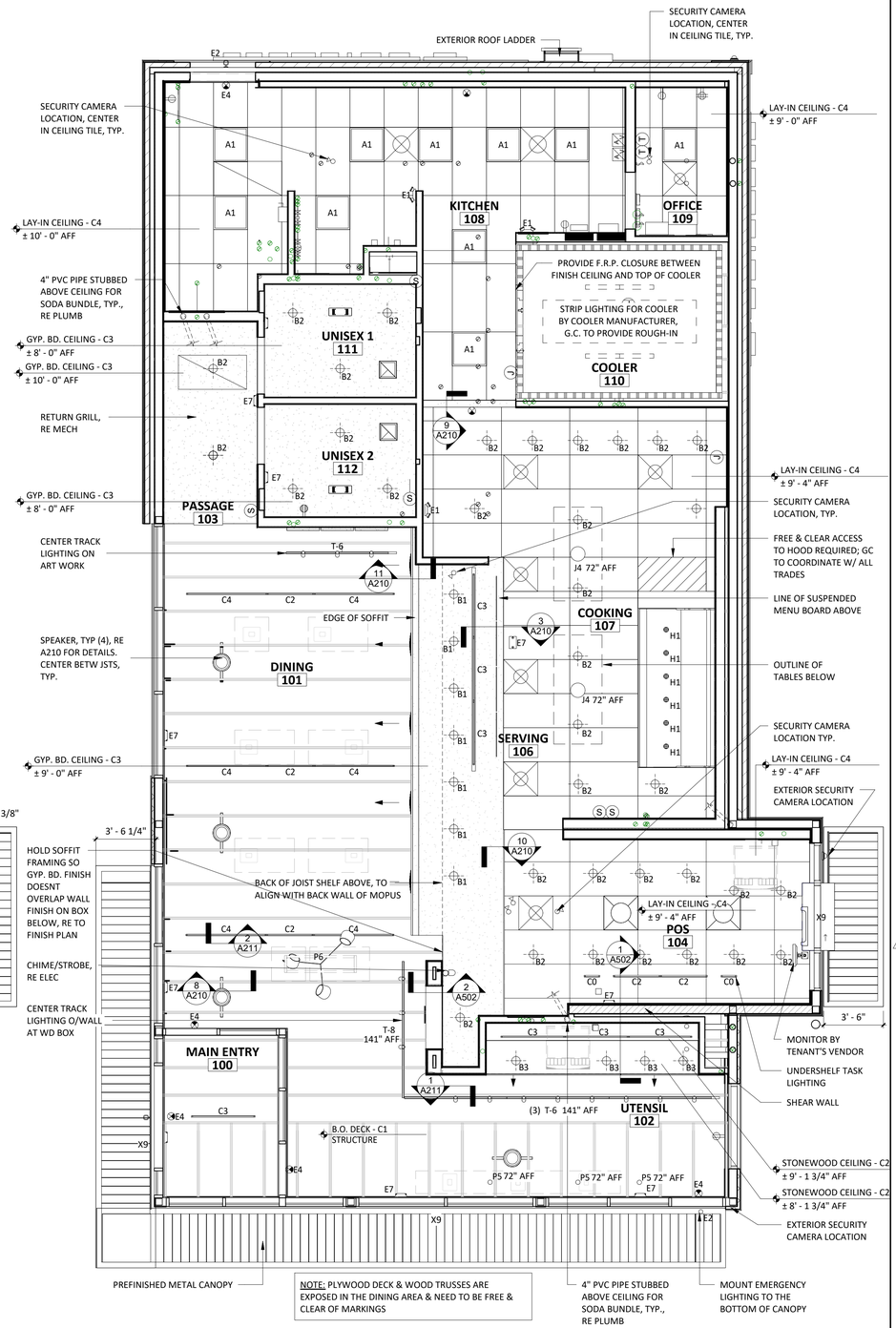
ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
	2	SUSPENDED		SEE SHEET E100
A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	37	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	4	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	5	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	16	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
C4	6	SURFACE	LOW PROFILE LED 5FT	SEE SHEET E100
E1	3	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	4	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	7	VARIOUS	WHITE EXIT LIGHT - STANDARD GREEN LETTERS	SEE SHEET E100
E7	10	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
G4	4	FLOOR	PATIO LIGHT POLE	SEE SHEET E100
H1	24	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	3	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	1	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	14	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-6	4	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
T-8	1	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100
X9	4	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100



3 A201 **DIMENSIONED REFLECTED CEILING PLAN**
1/4" = 1'-0"



1 A201 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
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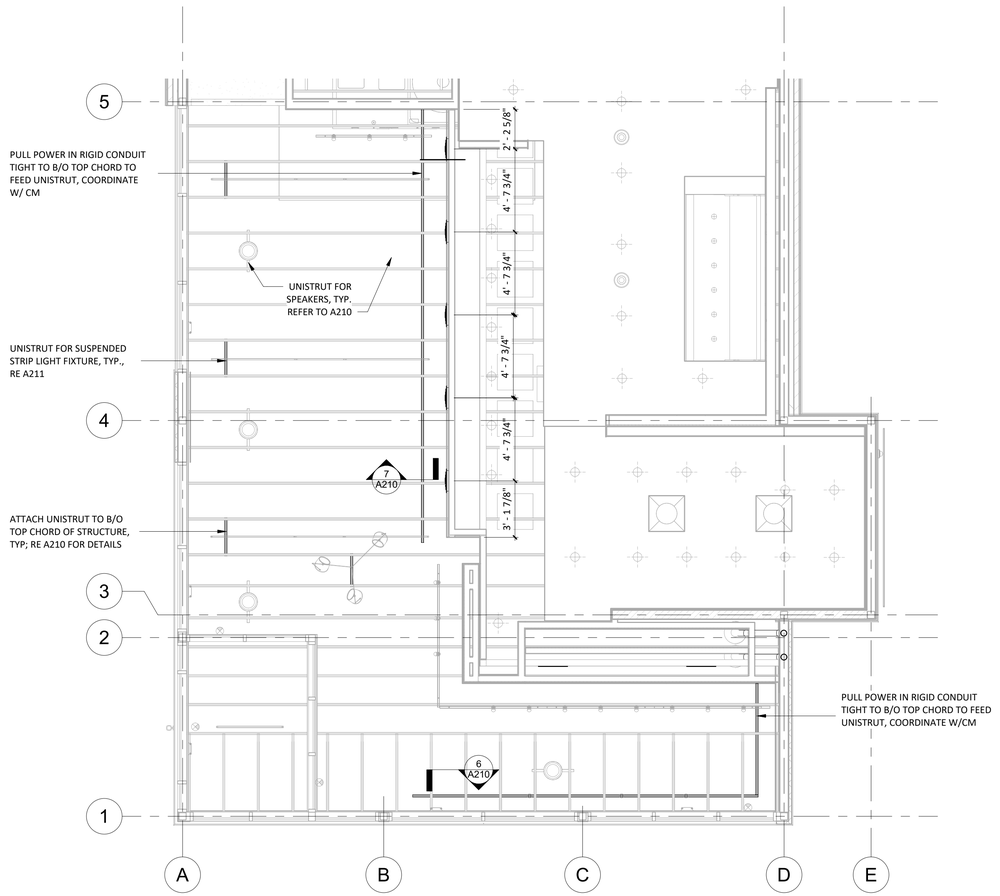
05/09/2024	PERMIT SET

Revisions:

#		
1	08/07/2024	PERMIT COMMENTS

Drawn: EYW
Checked: CL
Project No. 05-5119
Contents: REFLECTED CEILING PLAN

A201



1 A202 **UNISTRUT AND DUCTWORK LAYOUT**

1/4" = 1'-0"

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Revisions:

Drawn: EYW

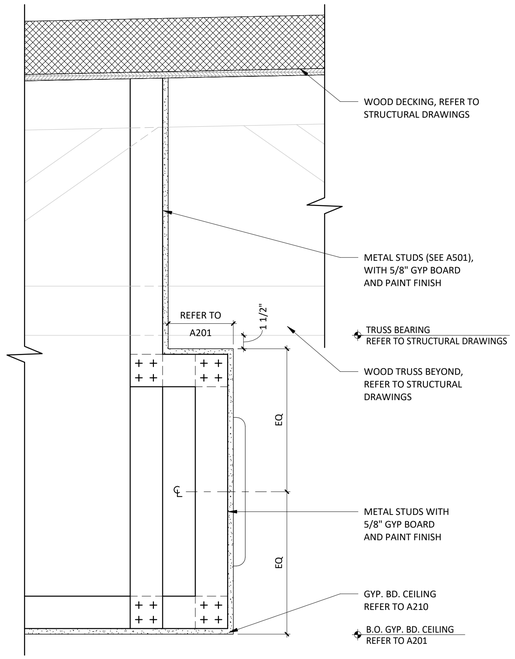
Checked: CL

Project No.: 05-5119

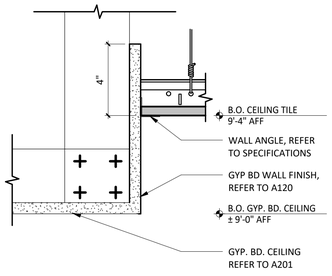
Contents:

REFLECTED CEILING & UNISTRUT PLAN

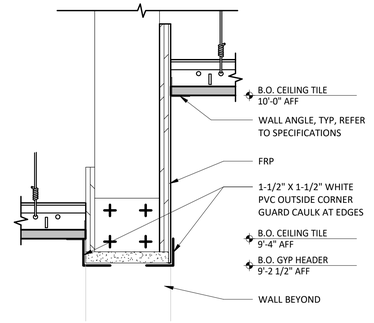
A202



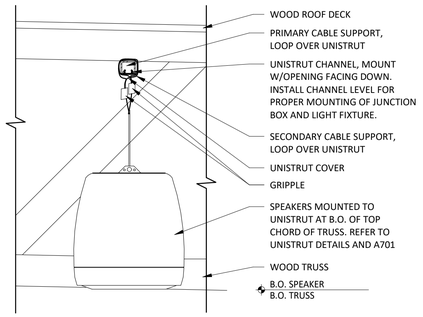
11 / A210 **JOIST SHELF DETAIL**
1 1/2" = 1'-0"



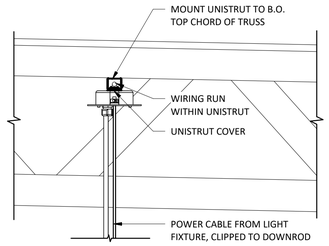
10 / A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



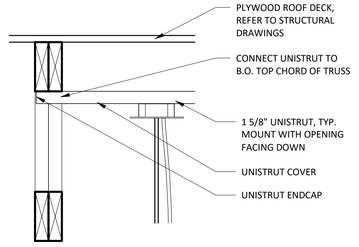
9 / A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



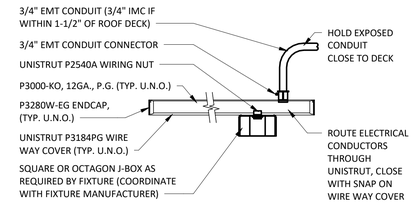
8 / A210 **SPEAKER INSTALLATION**
1 1/2" = 1'-0"



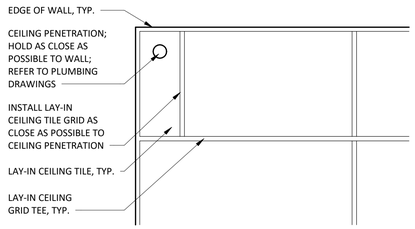
7 / A210 **UNISTRUT DETAIL**
1 1/2" = 1'-0"



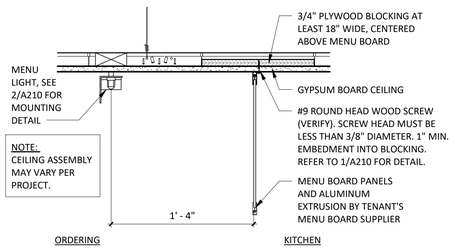
6 / A210 **TYP. UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



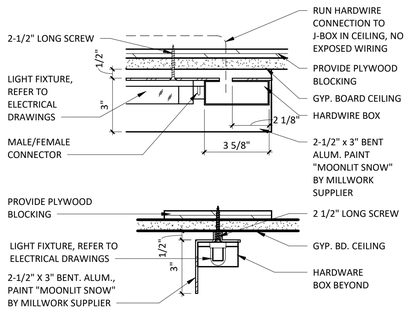
5 / A210 **UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



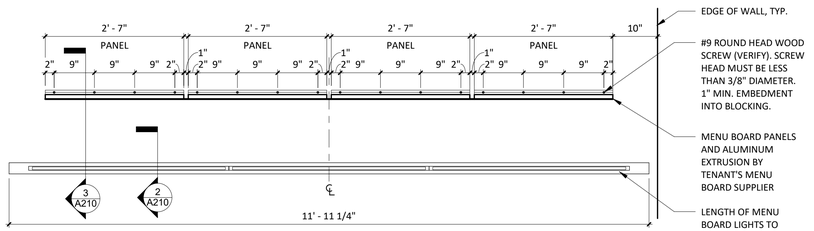
4 / A210 **LAY-IN CEILING PENETRATION - PLAN DETAIL**
3/4" = 1'-0"



3 / A210 **MENU BOARD DETAIL**
1 1/2" = 1'-0"



2 / A210 **MENU BOARD / ACCENT LIGHT DETAILS**
3" = 1'-0"



1 / A210 **MENU - SCREW PATTERN PLAN**
3/4" = 1'-0"

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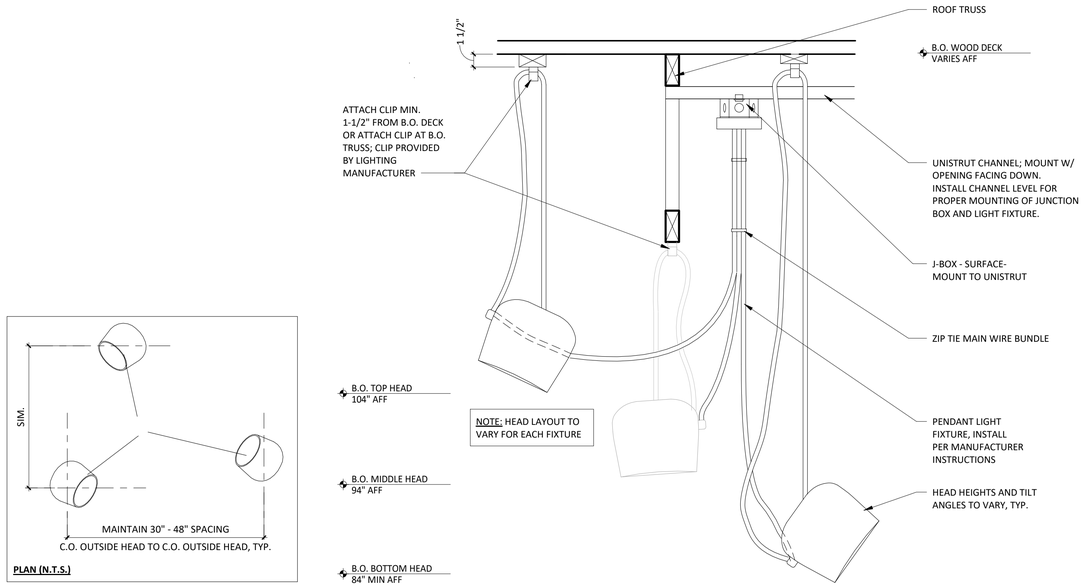
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Drawn: JM
Checked: CL

Project No.: 05-5119

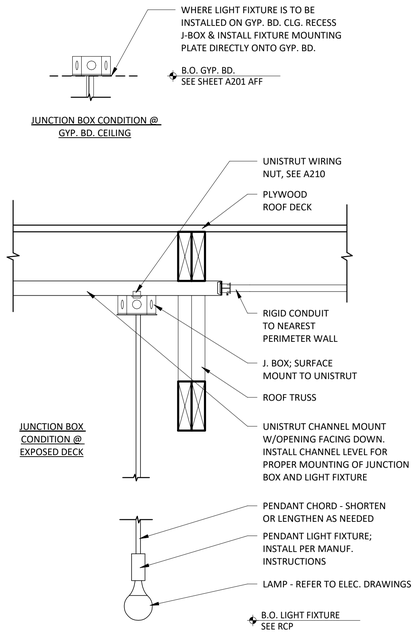
Contents:
CEILING DETAILS

A210



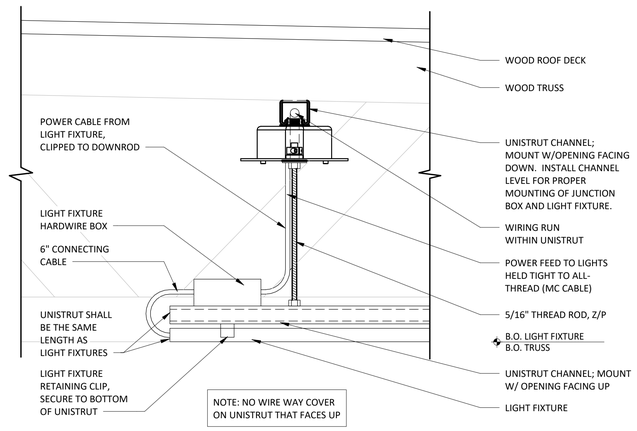
4 A211 SUSPENDED LIGHT FIXTURE

1 1/2" = 1'-0"



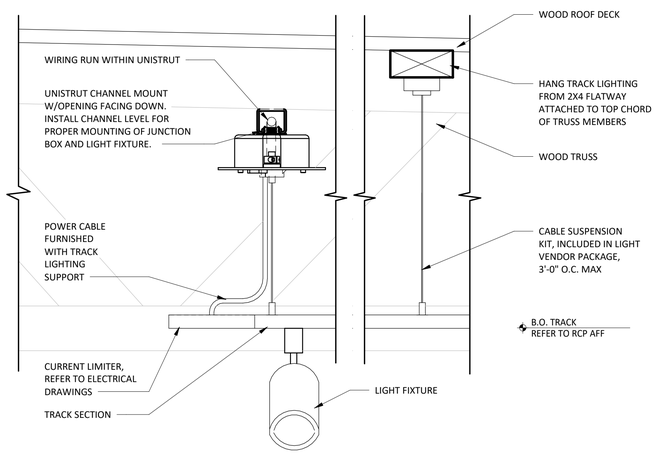
3 A211 PENDANT LIGHT FIXTURE

1 1/2" = 1'-0"



2 A211 SUSPENDED STRIP LIGHT CONNECTION DETAIL

3" = 1'-0"



1 A211 SUSPENDED TRACK LIGHT CONNECTION DETAIL

3" = 1'-0"

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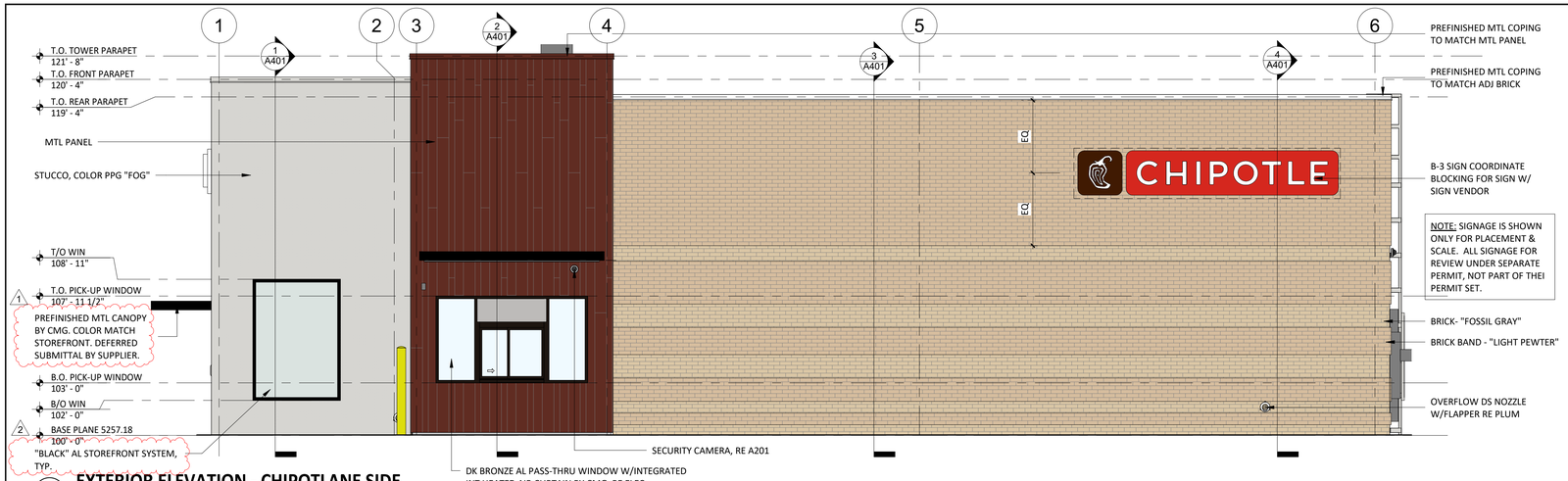
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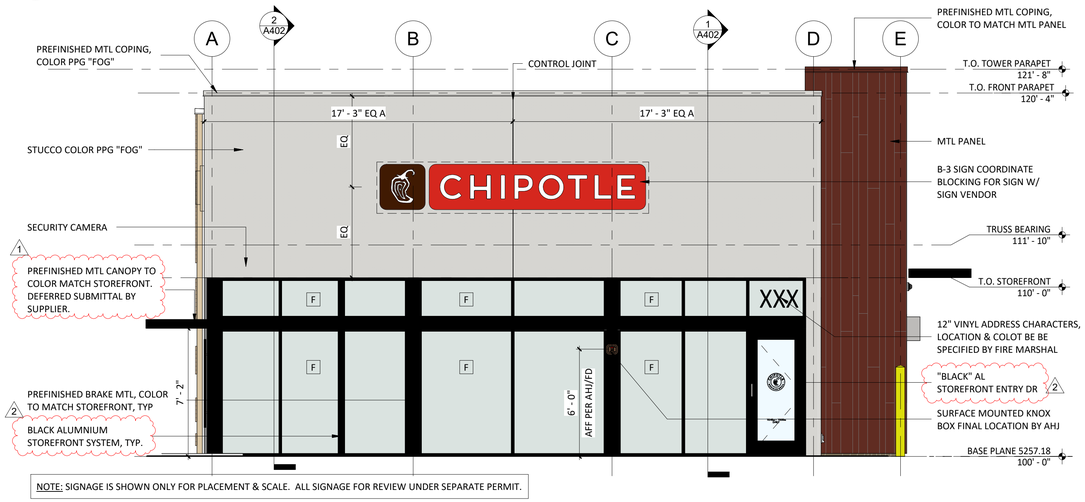
Contents:

LIGHTING DETAILS

A211

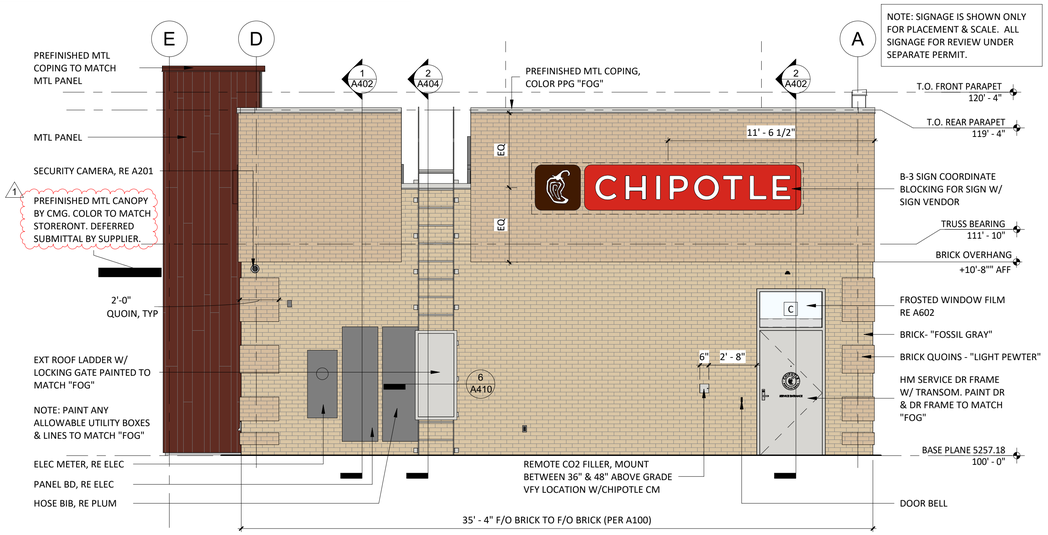


4 A301 **EXTERIOR ELEVATION - CHIPOTLANE SIDE**
1/4" = 1'-0"



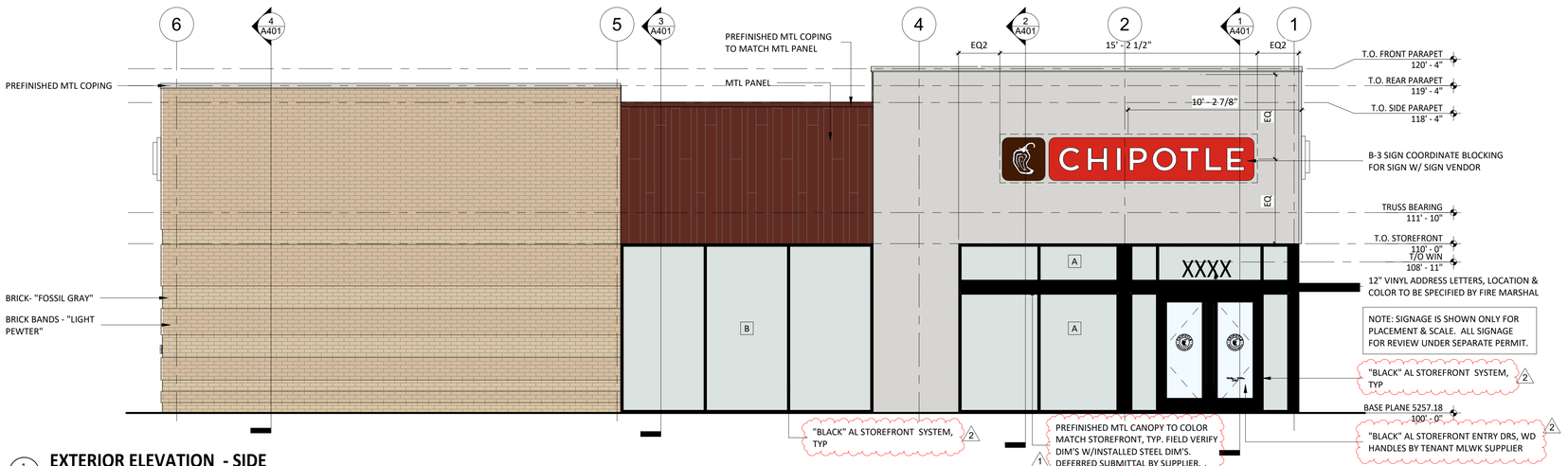
NOTE: SIGNAGE IS SHOWN ONLY FOR PLACEMENT & SCALE. ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT.

3 A301 **EXTERIOR ELEVATION - FRONT**
1/4" = 1'-0"



NOTE: SIGNAGE IS SHOWN ONLY FOR PLACEMENT & SCALE. ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT.

2 A301 **EXTERIOR ELEVATION - REAR**
1/4" = 1'-0"



1 A301 **EXTERIOR ELEVATION - SIDE**
1/4" = 1'-0"

GENERAL NOTES

1. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.

FINISH LEGEND

	FACE BRICK MANUFACTURER: SUMMIT BRICK COMPANY COLOR: LIGHT PEWTER MORTAR: GREY
	FACE BRICK MANUFACTURER: SUMMIT BRICK COMPANY COLOR: LIGHT PEWTER MORTAR: GREY
	PAINT COLOR STUCCO, REAR DOOR, LADDER MANUFACTURER: PPG COLOR: LIGHT PEWTER
	STOREFRONT MANUFACTURER: ARCADIA COLOR: BLACK
	DRIVE-THRU TOWER MANUFACTURER: ARCH FAB EXTRUDED ALUMINUM PANEL SYSTEM COLOR: FAUX CORTEN
	STOREFRONT GLAZING SOLARBAN 60 SOLAR CONTROL LOW-E GLASS
	CONTROL JOINT COLOR: CLEAR ANODIZED

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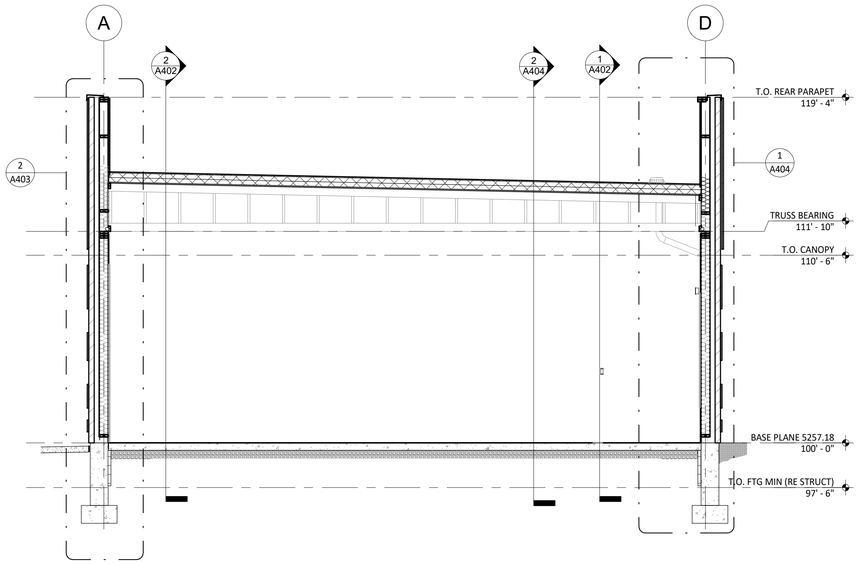
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2	09/09/2024	Revision 2

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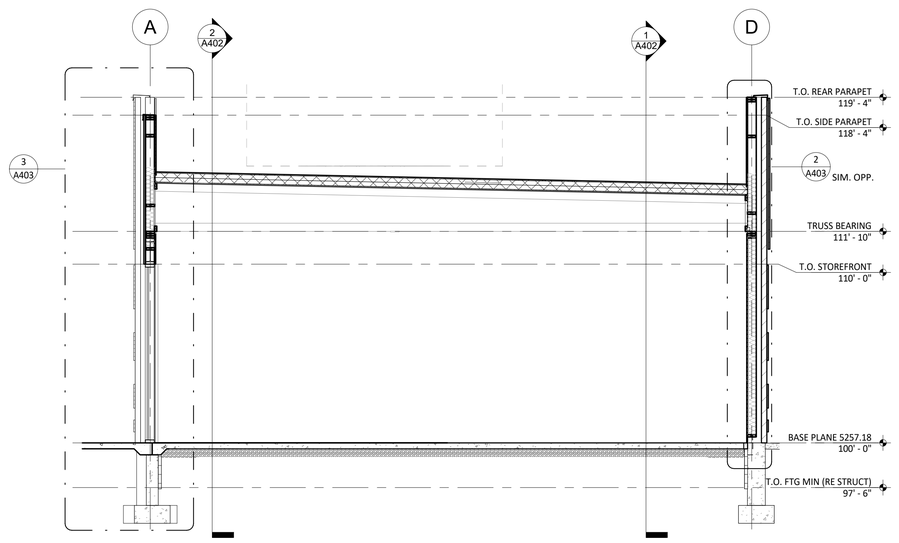
Contents:
EXTERIOR ELEVATIONS

A301



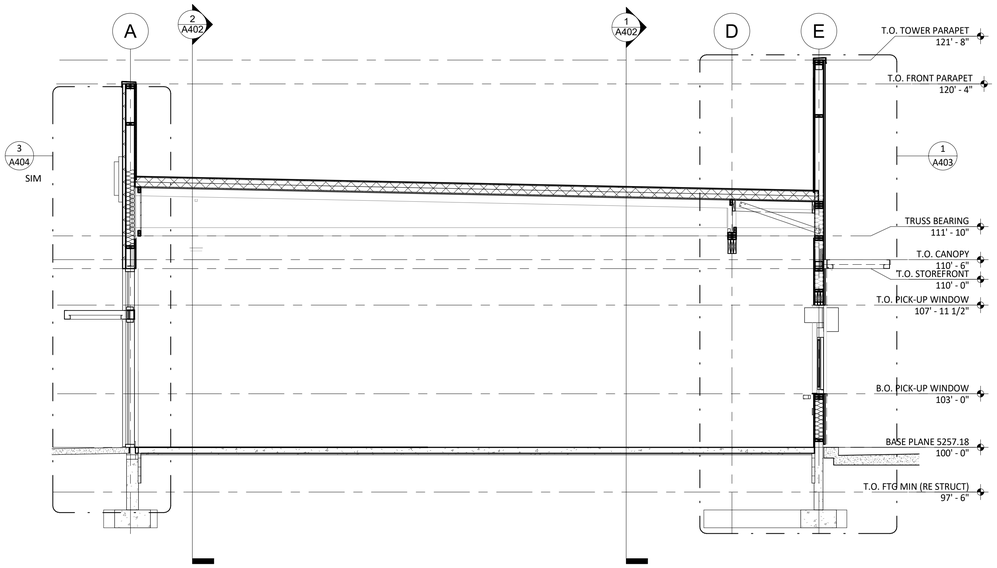
4 A401 **BUILDING SECTION**

1/4" = 1'-0"



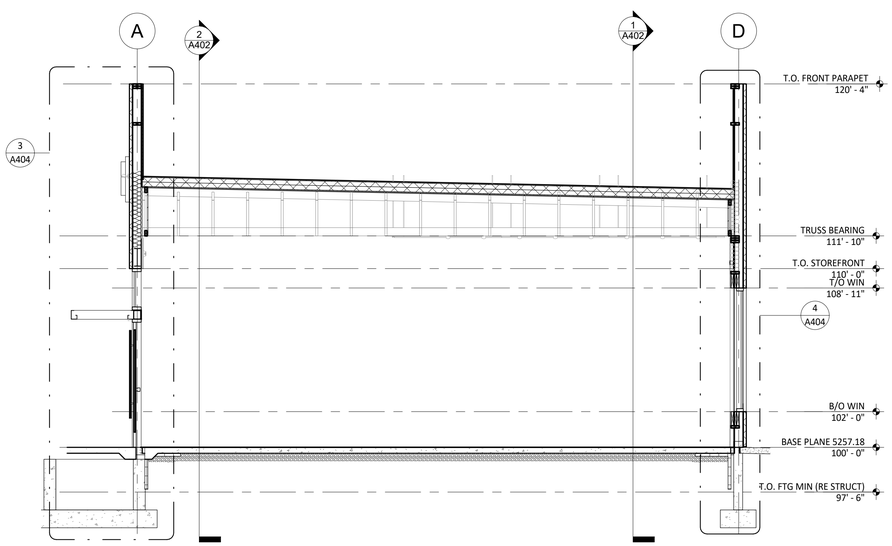
3 A401 **BUILDING SECTION**

1/4" = 1'-0"



2 A401 **BUILDING SECTION**

1/4" = 1'-0"



1 A401 **BUILDING SECTIONS**

1/4" = 1'-0"

Consultant:

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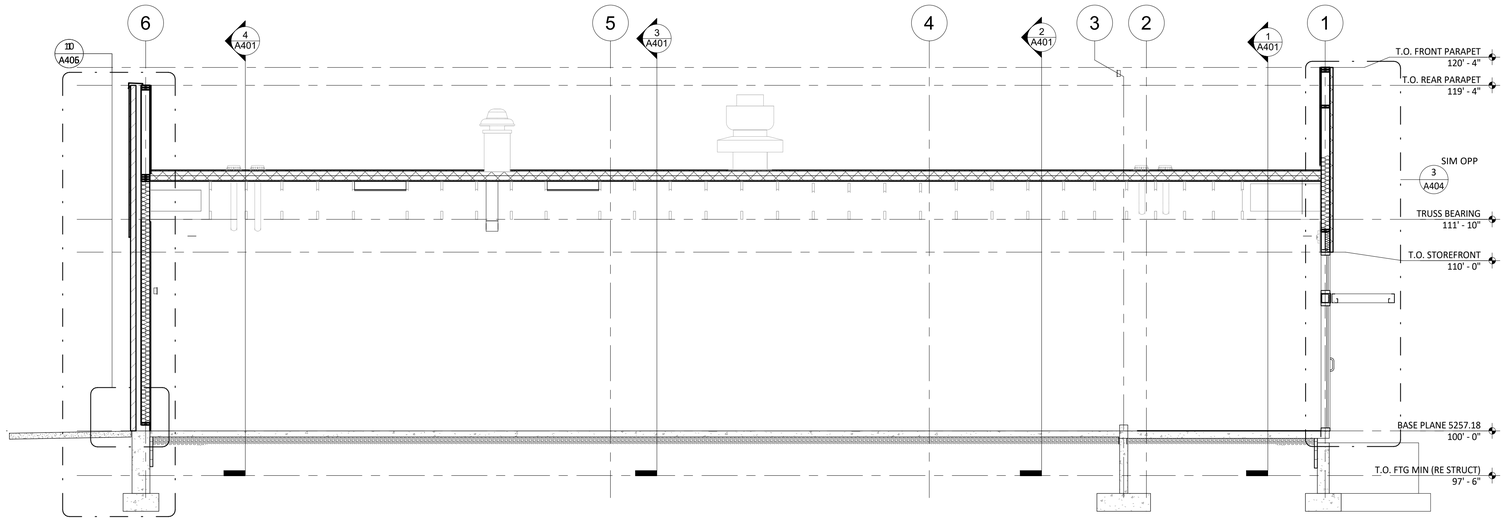
Drawn: JM

Checked: CL

Project No.: 05-5119

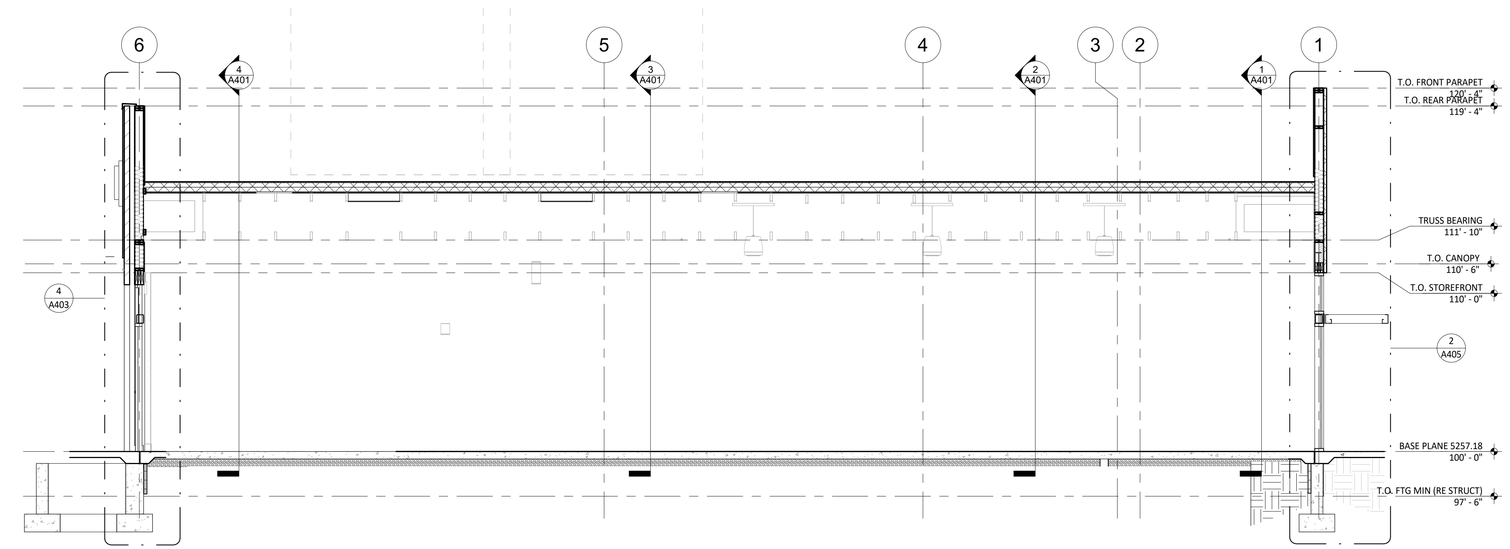
Contents: BUILDING SECTIONS

A401



1 A402 **BUILDING SECTION**

1/4" = 1'-0"



2 A402 **BUILDING SECTION**

1/4" = 1'-0"

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Revisions:

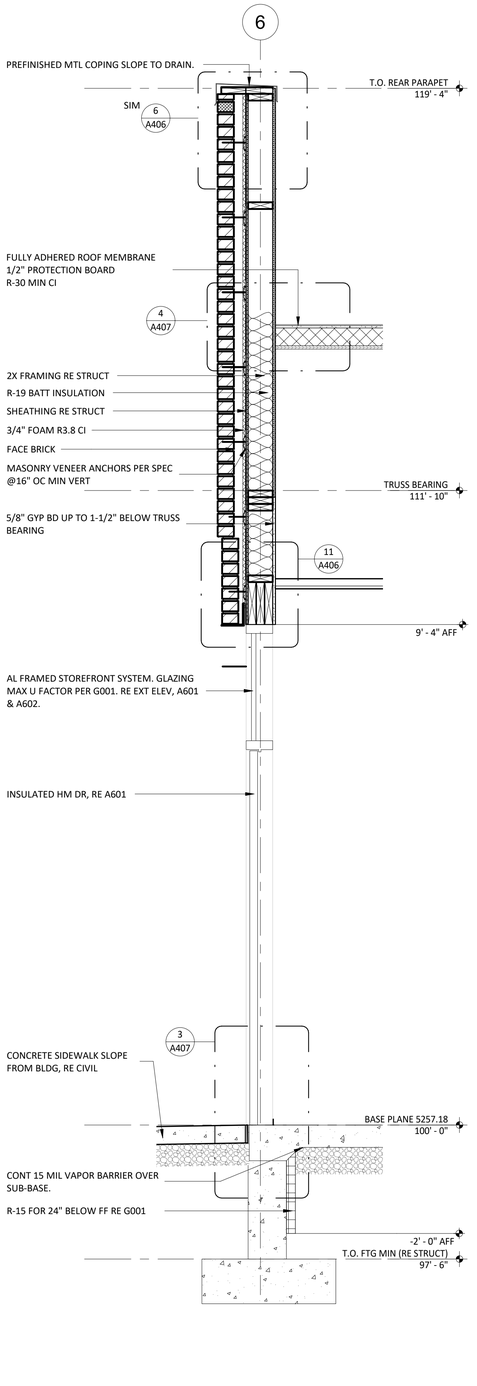
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Checked: CL

Project No.
05-5119

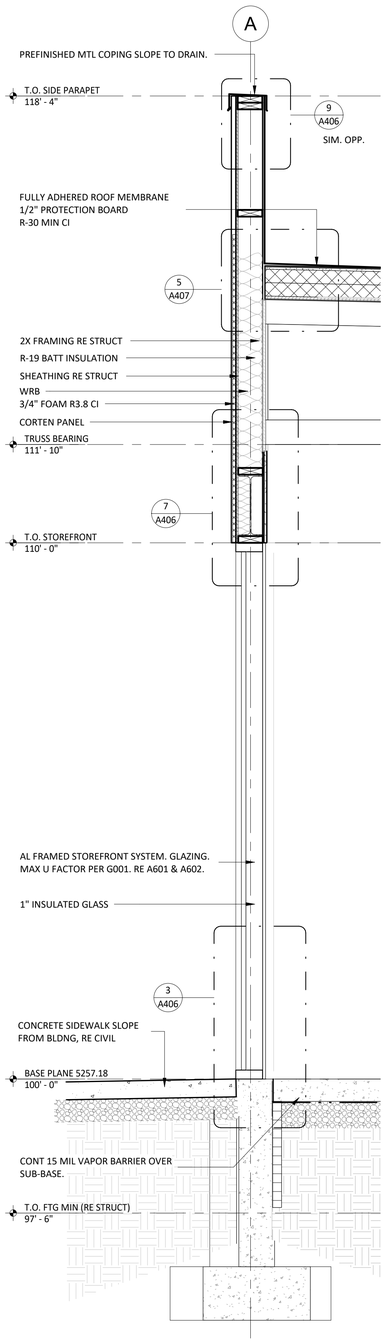
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A402



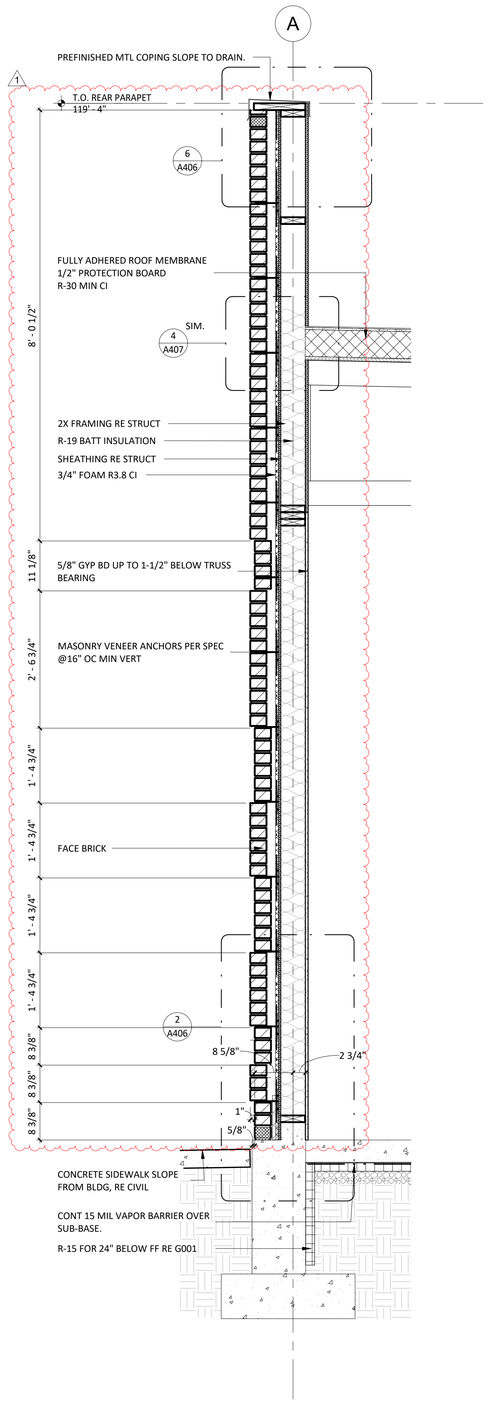
4 A403 WALL SECTION @ SERVICE DOOR

3/4" = 1'-0"



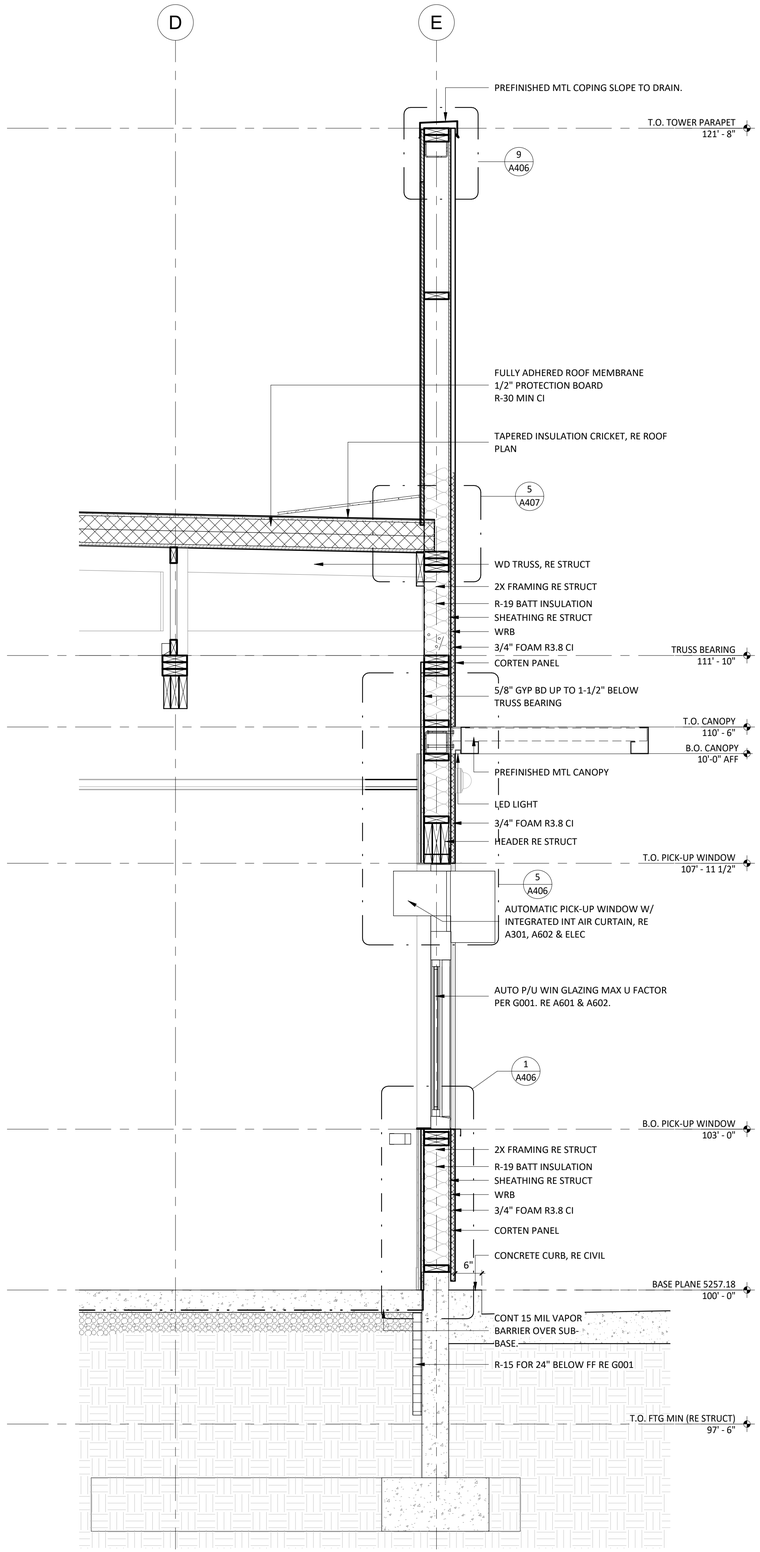
3 A403 WALL SECTION @ CORTEN STOREFRONT

3/4" = 1'-0"



2 A403 WALL SECTION @ BRICK REVEALS

3/4" = 1'-0"



1 A403 WALL SECTION @ PICK-UP WINDOW

3/4" = 1'-0"

Consultant:
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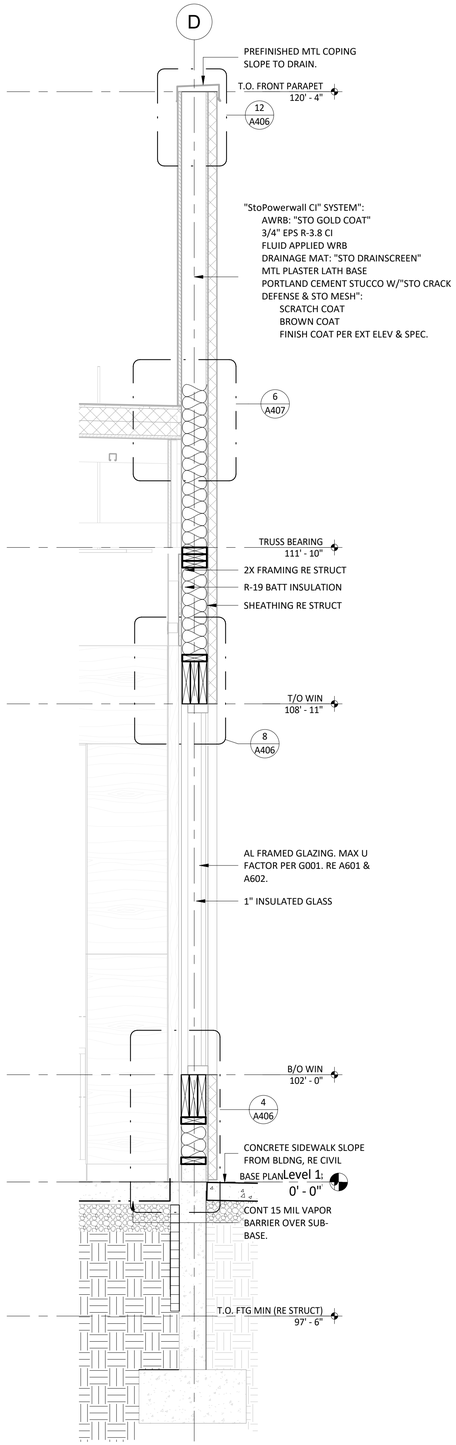
1	08/07/2024	PERMIT COMMENTS

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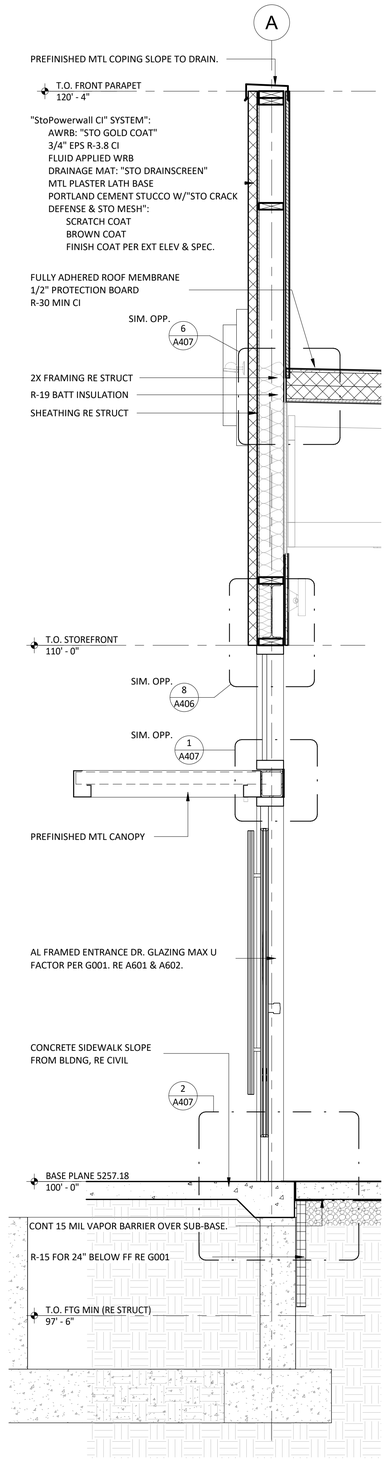
Project No.: 05-5119

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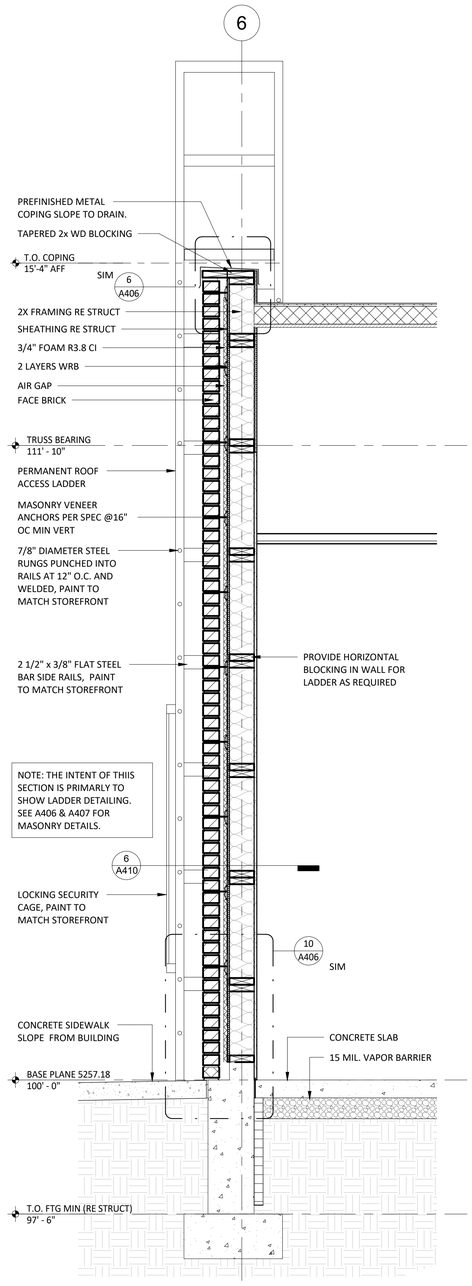
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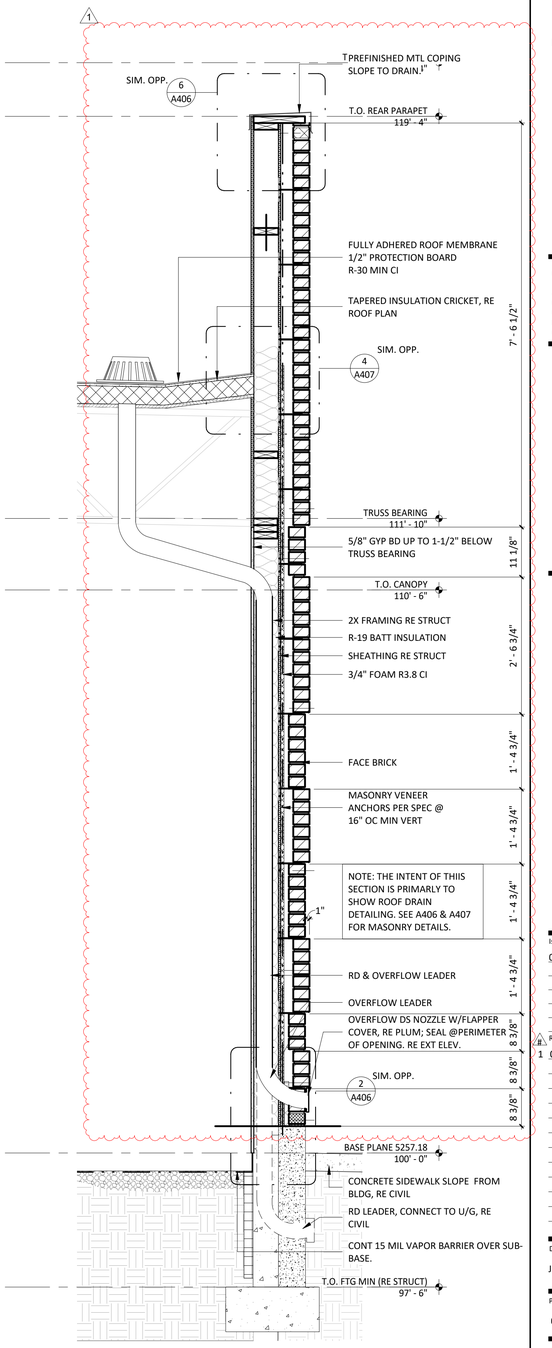
4 A404 **WALL SECTION @ PUNCH WINDOW**
3/4" = 1'-0"



3 A404 **WALL SECTION @ MAIN ENTRY**
3/4" = 1'-0"



2 A404 **WALL SECTION @ ROOF LADDER**
3/4" = 1'-0"



1 A404 **WALL SECTION @ ROOF DRAIN**
3/4" = 1'-0"

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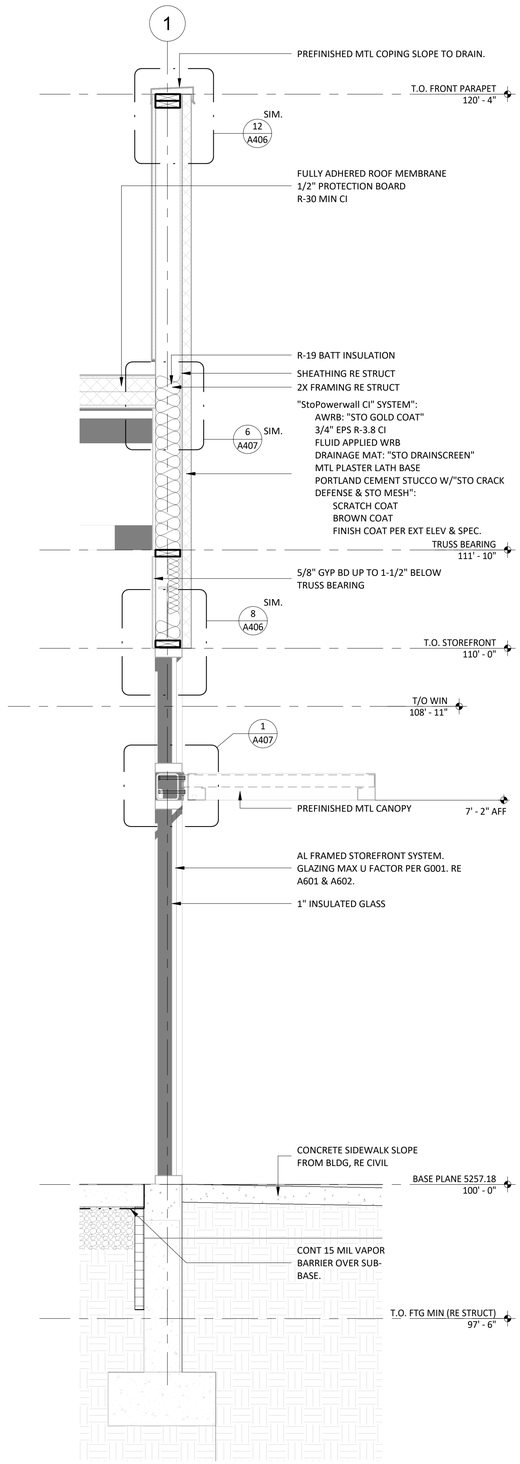
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Checked: CL

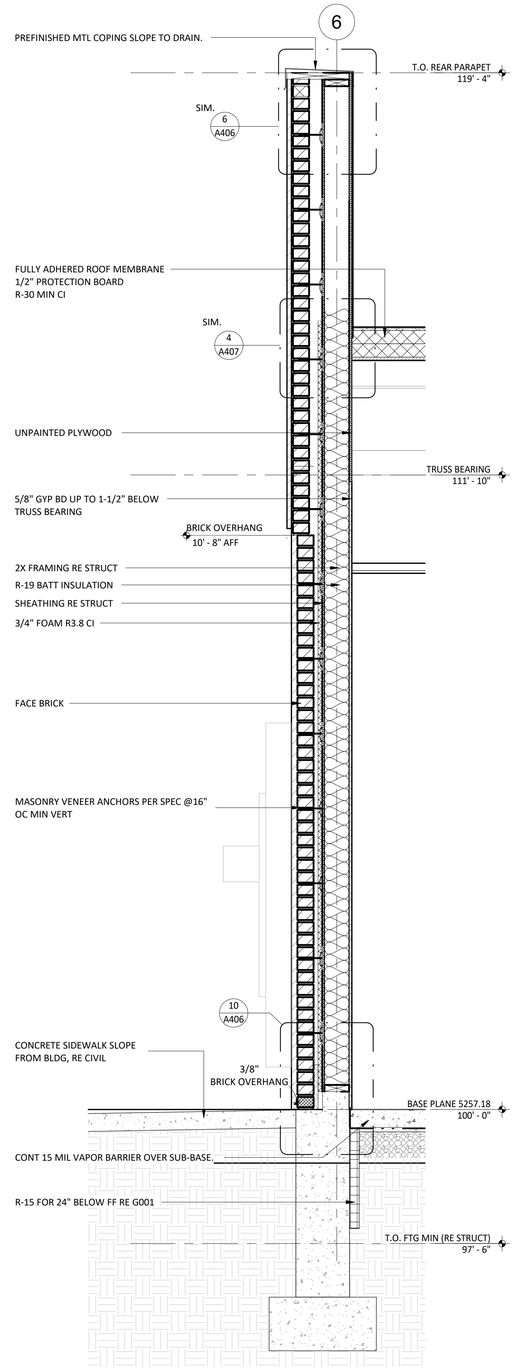
Project No.
05-5119

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WALL SECTIONS

A404



2 A405 **WALL SECTION @ STUCCO STOREFRONT**
3/4" = 1'-0"



1 A405 **WALL SECTION @ BRICK STUD**
3/4" = 1'-0"

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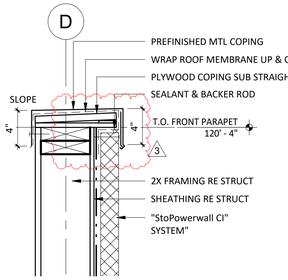
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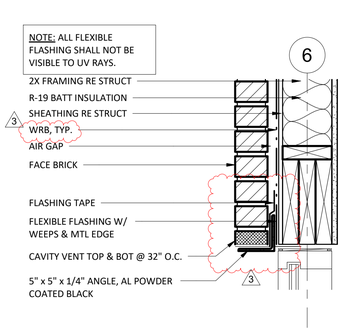
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05-5119

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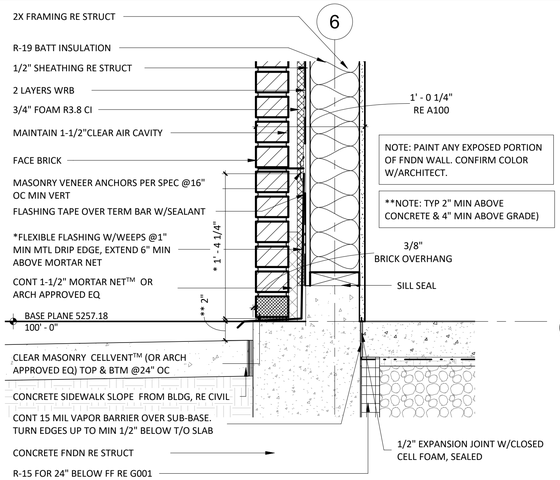
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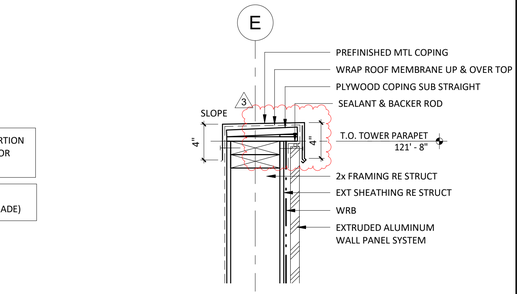
12 A406 **WALL SECTION @ STUCCO COPING**
1 1/2" = 1'-0"



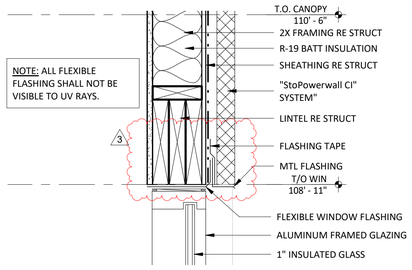
11 A406 **WALL SECTION @ SERVICE DOOR**
1 1/2" = 1'-0"



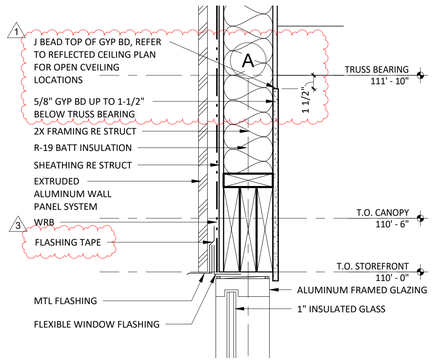
10 A406 **WALL SECTION @ BRICK FNDN**
1 1/2" = 1'-0"



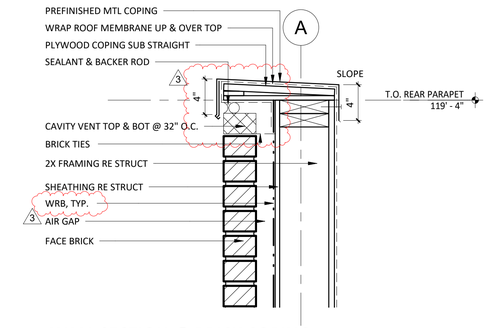
9 A406 **WALL SECTION @ PICK-UP WINDOW COPING**
1 1/2" = 1'-0"



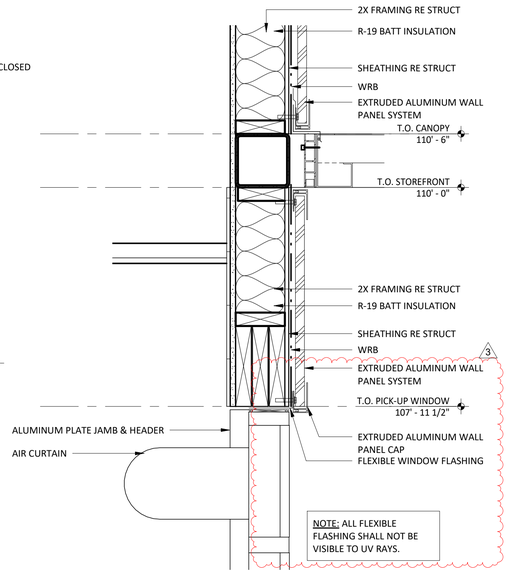
8 A406 **WALL SECTION @ STUCCO HEADER**
1 1/2" = 1'-0"



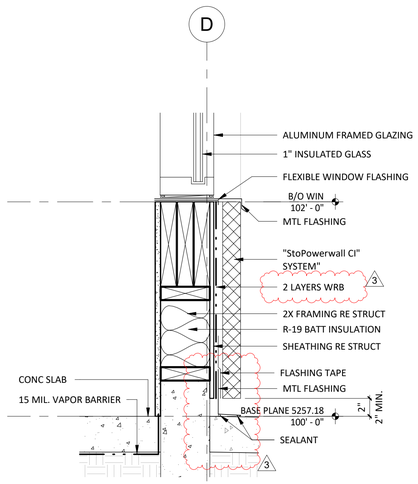
7 A406 **WALL SECTION @ CORTEN STOREFRONT HEADER**
1 1/2" = 1'-0"



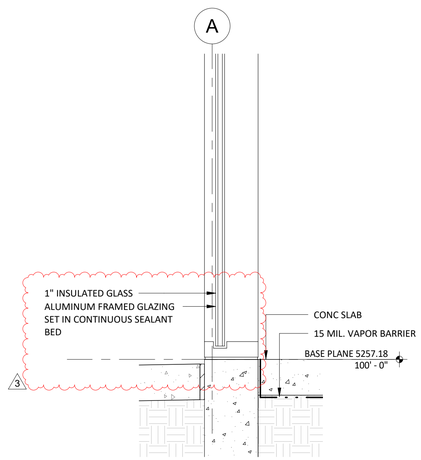
6 A406 **WALL SECTION @ BRICK COPING**
1 1/2" = 1'-0"



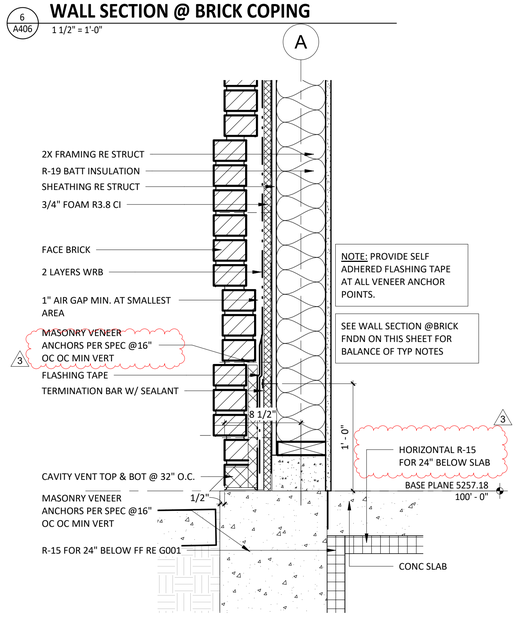
5 A406 **WALL SECTION @ PICK-UP WINDOW HEADER**
1 1/2" = 1'-0"



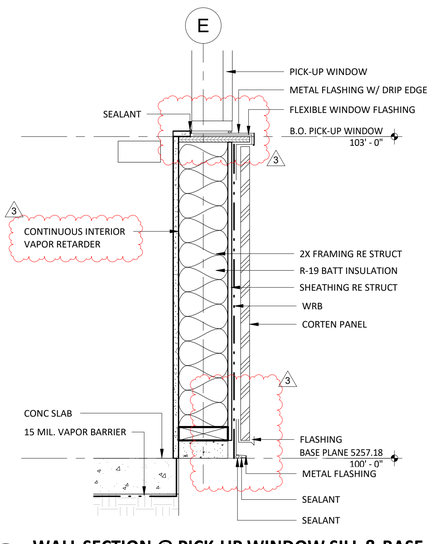
4 A406 **WALL SECTION @ STUCCO BASE**
1 1/2" = 1'-0"



3 A406 **WALL SECTION @ STOREFRONT BASE**
1 1/2" = 1'-0"



2 A406 **WALL SECTION @ STAGGERED BRICK BASE**
1 1/2" = 1'-0"



1 A406 **WALL SECTION @ PICK-UP WINDOW SILL & BASE**
1 1/2" = 1'-0"

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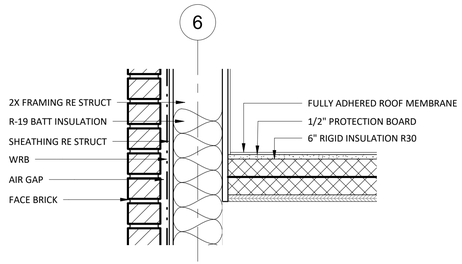
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3	10/01/2024	Revision 3

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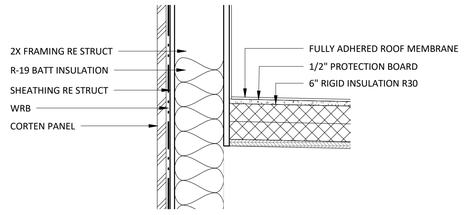
Project No.
05-5119

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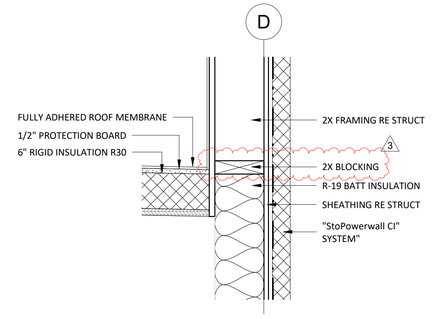
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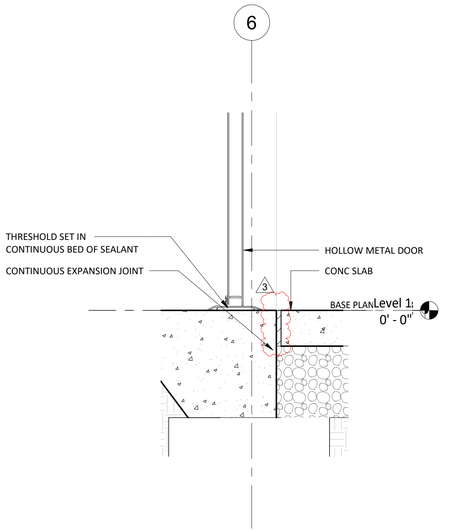
4 A407 **ROOF MEMBRANE @ BRICK**
1 1/2" = 1'-0"



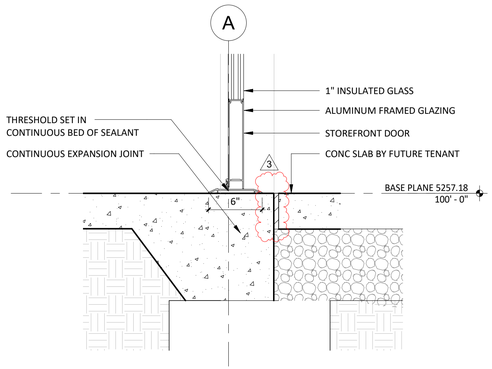
5 A407 **ROOF MEMBRANE @ CORTEN PANEL**
1 1/2" = 1'-0"



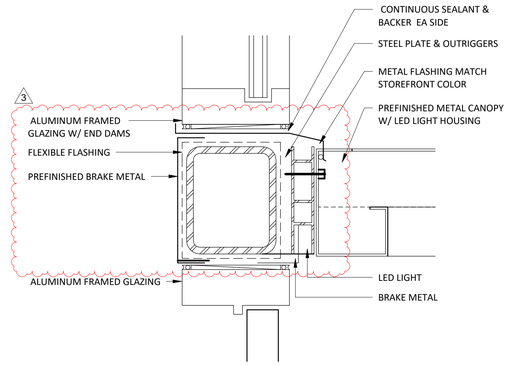
6 A407 **ROOF MEMBRANE @ STUCCO**
1 1/2" = 1'-0"



3 A407 **FOUNDATION DETAIL @ REAR SERVICE DOOR**
1 1/2" = 1'-0"



2 A407 **FOUNDATION DETAIL @ STOREFRONT DOOR**
1 1/2" = 1'-0"



1 A407 **CANOPY DETAIL @ STOREFRONT**
3" = 1'-0"

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3	10/01/2024	Revision 3

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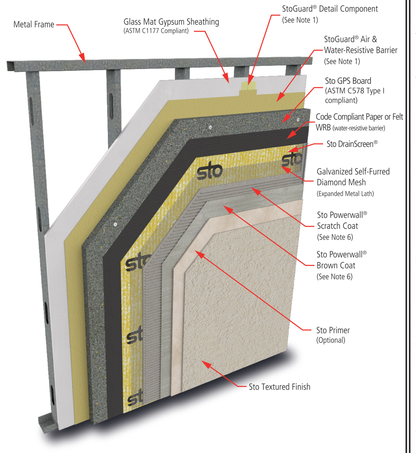
Project No.
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SECTION DETAILS

A407

StoPowerwall®ci
System Components

Detail No.: 63s.00
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation Board in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

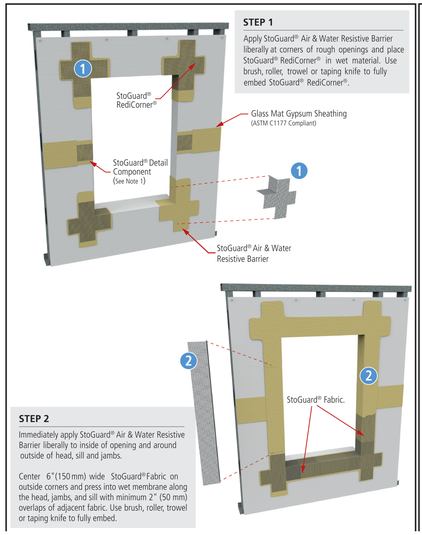
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

1 A408 **STUCCO SYSTEM COMPONENTS**
1/4" = 1'-0"

StoPowerwall®ci
Rough Opening Protection with StoGuard®Fabric

Detail No.: 63s.04F
Date: August 2023
Page 1 of 2



STEP 1
Apply StoGuard® Air & Water Resistive Barrier liberally at corners of rough openings and place StoGuard® RediCorner® in wet material. Use brush, roller, trowel or taping knife to fully embed StoGuard® RediCorner®.

STEP 2
Immediately apply StoGuard® Air & Water Resistive Barrier liberally to inside of opening and around outside of head, sill and jambs.

Center 6"(150 mm) wide StoGuard® Fabric on outside corners and press into wet membrane along the head, jambs, and sill with minimum 2" (50 mm) overlaps of adjacent fabric. Use brush, roller, trowel or taping knife to fully embed.

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

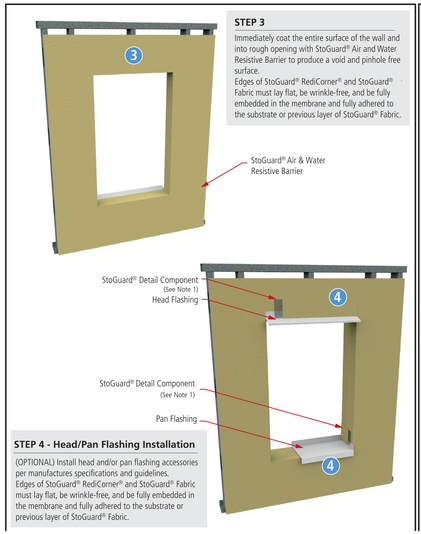
3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

4. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

2 A408 **STUCCO ROUGH OPENING PROTECTION**
1/4" = 1'-0"

StoPowerwall®ci
Rough Opening Protection with StoGuard®Fabric

Detail No.: 63s.04F
Date: August 2023
Page 2 of 2



STEP 3
Immediately coat the entire surface of the wall and into rough opening with StoGuard® Air and Water Resistive Barrier to produce a void and pinhole free surface.
Edges of StoGuard® RediCorner® and StoGuard® Fabric must lay flat, be wrinkle-free, and be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard® Fabric.

STEP 4 - Head/Pan Flashing Installation
(OPTIONAL) Install head and/or pan flashing accessories per manufactures specifications and guidelines.
Edges of StoGuard® RediCorner® and StoGuard® Fabric must lay flat, be wrinkle-free, and be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard® Fabric.

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

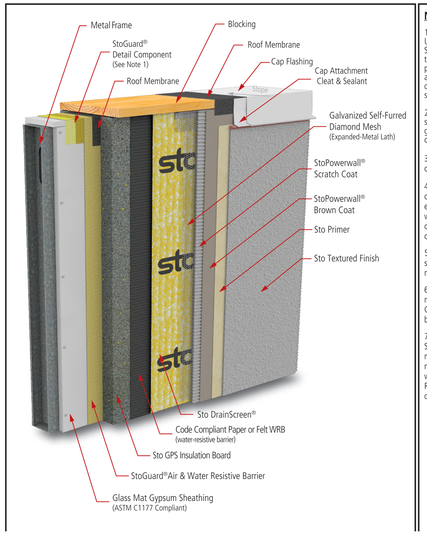
2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

4. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

StoPowerwall®ci
Termination at Parapet

Detail No.: 63s.15
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

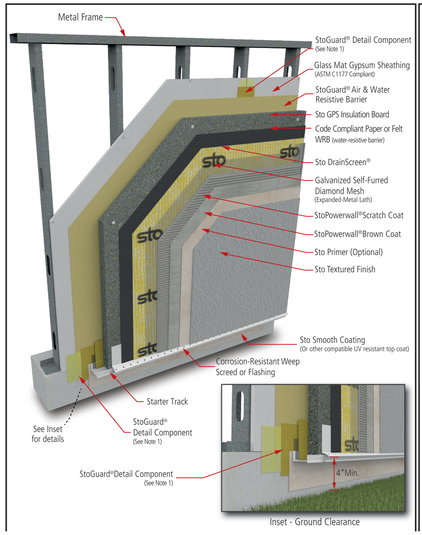
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

3 A408 **STUCCO TERMINATION AT PARAPET**
1/4" = 1'-0"

StoPowerwall®ci
Termination at Grade: Sheathing Flush with Foundation

Detail No.: 63s.02
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

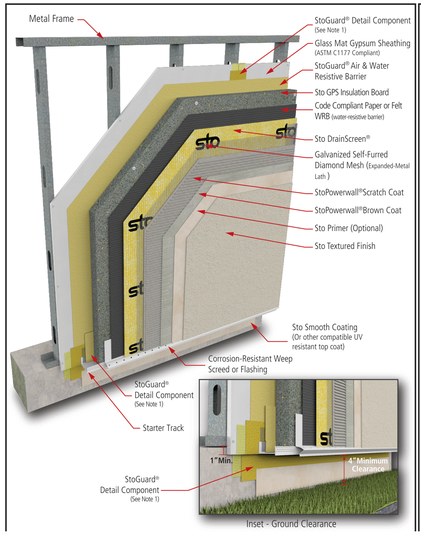
7. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51mm) above paved surfaces.

8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

4 A408 **STUCCO TERMINATION AT GRADE SHEATHING FLUSH**
1/4" = 1'-0"

StoPowerwall®ci
Termination at Grade: Sheathing over Foundation

Detail No.: 63s.03
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51mm) above paved surfaces.

8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

5 A408 **STUCCO TERMINATION AT GRADE OVER FOUNDATION**
1/4" = 1'-0"

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Issue Record:

05/09/2024	PERMIT SET

Revisions:

Drawn: JM
Checked: CL

Project No.: 05-5119

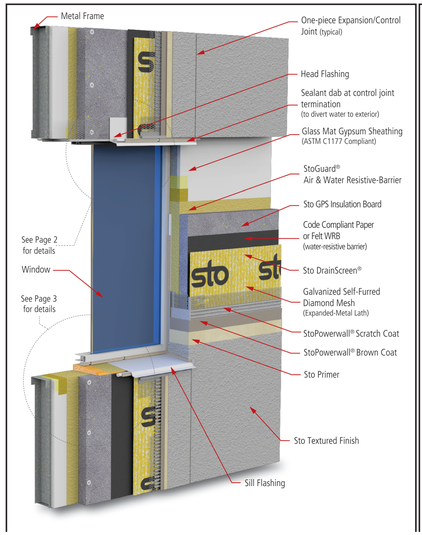
Contents:

STUCCO DETAILS

A408

StoPowerwall®ci
Box Window at Sill, Jamb, and Head

Detail No.: 63s.05
Date: August 2023
Page 1 of 3



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

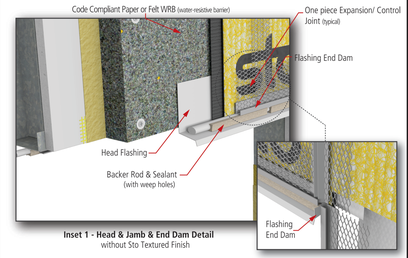
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

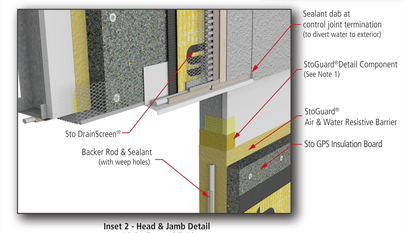
8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

StoPowerwall®ci
Box Window at Head/Jamb

Detail No.: 63s.05
Date: August 2023
Page 2 of 3



Inset 1 - Head & Jamb & End Dam Detail
without Sto Textured Finish



Inset 2 - Head & Jamb Detail
with Sto Textured Finish

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

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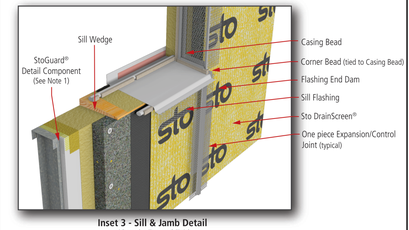
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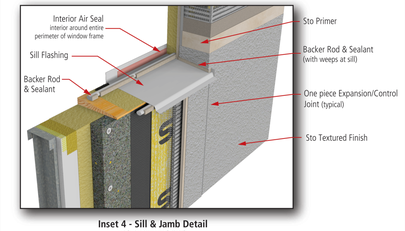
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StoPowerwall®ci
Box Window at Sill/Jamb

Detail No.: 63s.05
Date: August 2023
Page 3 of 3



Inset 3 - Sill & Jamb Detail
without Sto Textured Finish



Inset 4 - Sill & Jamb Detail
with Sto Textured Finish

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

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1 A409 STUCCO BOX WINDOW SILL JAMB HEAD
1/4" = 1'-0"

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05/09/2024	PERMIT SET

Revisions:

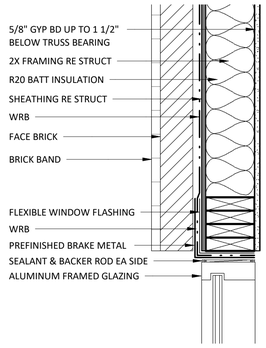
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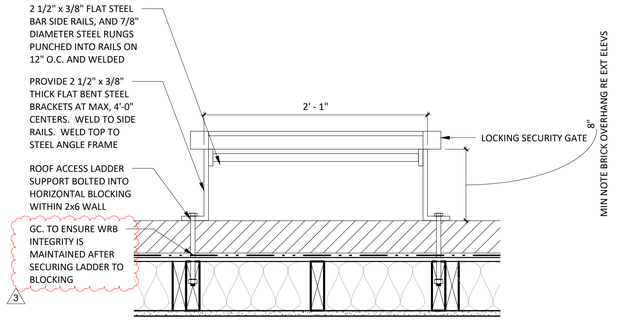
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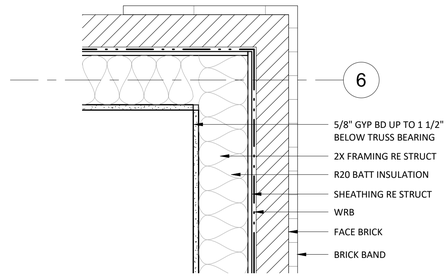
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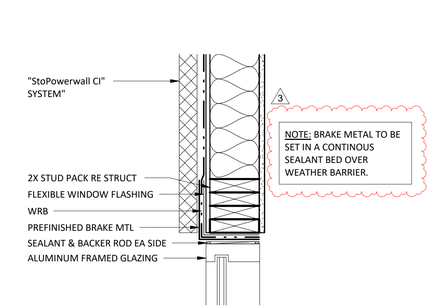
5 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



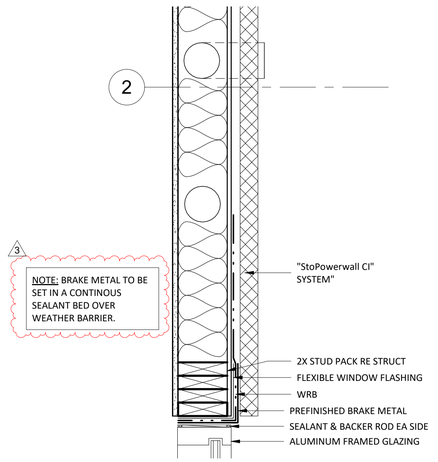
6 A410 **PLAN DETAIL - EXTERIOR ROOF LADDER**
1 1/2" = 1'-0"



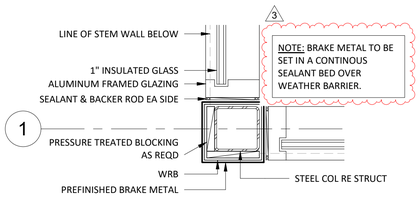
7 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



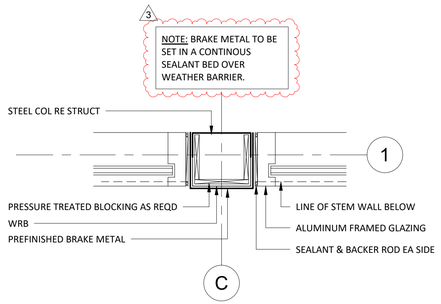
4 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



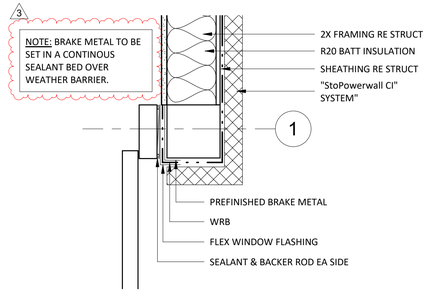
8 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



3 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



2 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



1 A410 **PLAN DETAIL**
1 1/2" = 1'-0"

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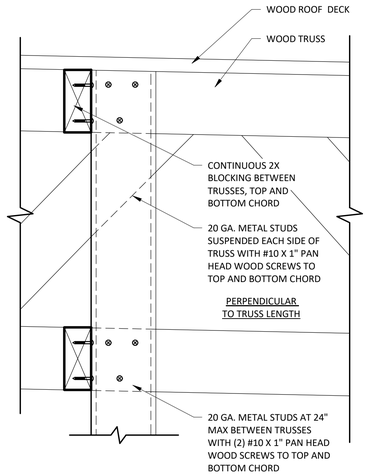
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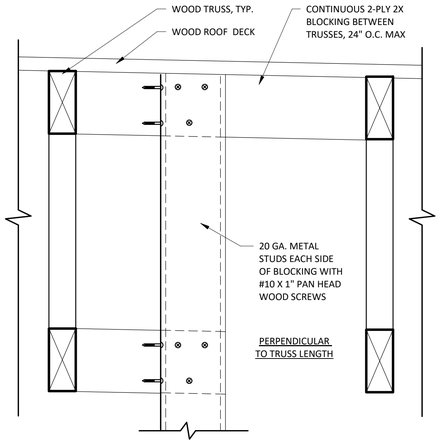
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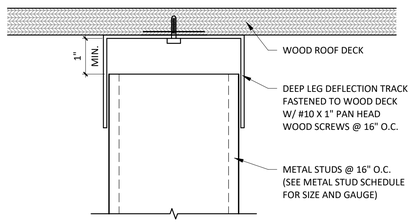
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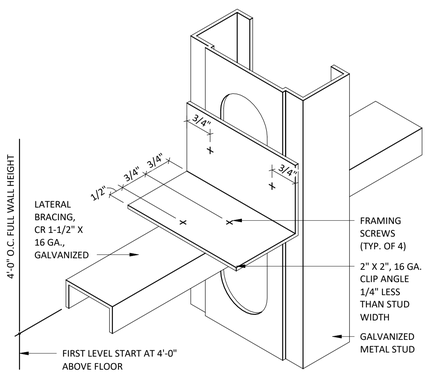






3 A501 **DEFLECTION TRACK DETAIL @ PARTITION**
6" = 1'-0"

2 A501 **SOFFIT HANGING DETAIL**
3" = 1'-0"

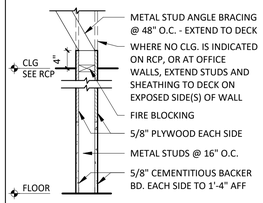


1 A501 **LATERAL BRACING DETAIL @ PARTITION**
NOT TO SCALE

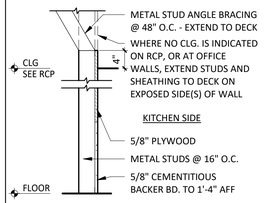
WALL TYPES

1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES

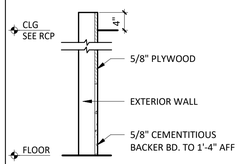
NOTE: ALL CONCEALED
WOOD TO BE FRT RATED



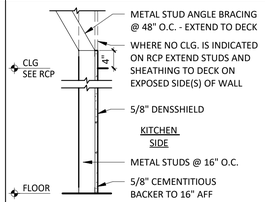
W1 INTERIOR PARTITION



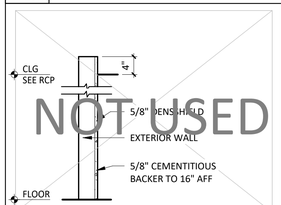
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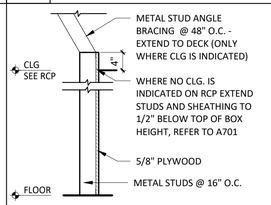
W1ax INTERIOR PARTITION



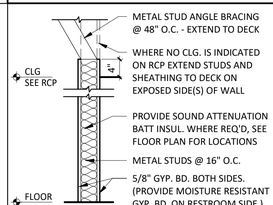
W3a INTERIOR PARTITION



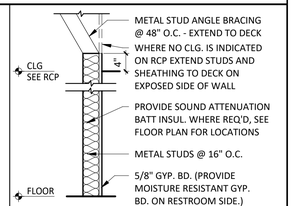
W3ax INTERIOR PARTITION



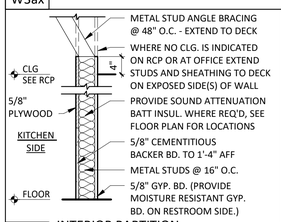
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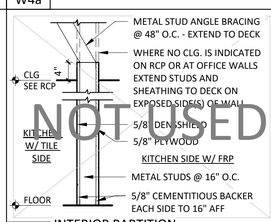
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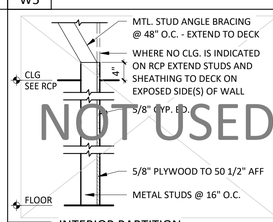
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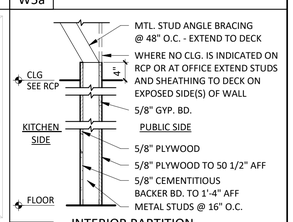
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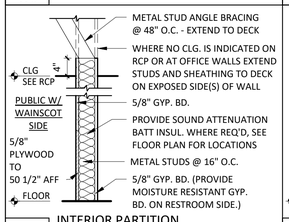
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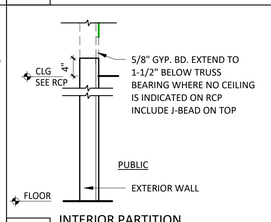
W10a INTERIOR PARTITION



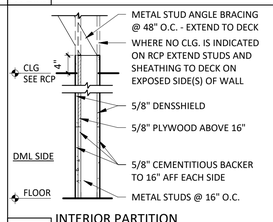
W11 INTERIOR PARTITION



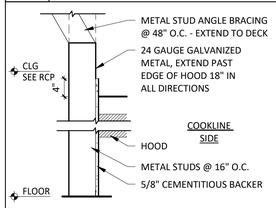
W14 INTERIOR PARTITION



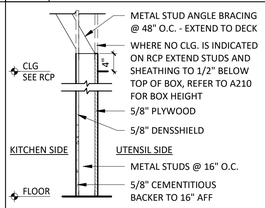
W15ax INTERIOR PARTITION



W23 INTERIOR PARTITION



W26a INTERIOR PARTITION



W28 INTERIOR PARTITION

GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.

STUD SCHEDULE & NOTES

SIZE/TYPE	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
3. BOTTOM TRACK TO BE SAME GAUGE AS STUD.
4. TOP TRACK TO BE ONE GAUGE HIGHER.

PARTITION NOTES

1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
2. ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE.
3. ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
4. FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE ARCHITECT.
5. ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET.
6. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
7. THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
8. TYPICAL FASTENER:

A. STEEL STUDS TO STEEL STUDS OR TRACKS:
- 20 GAUGE - #8 - 18 X 1/2" TEKS WITH PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
- 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION

B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
- #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
- 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

D. PLYWOOD TO STEEL STUDS:
- #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

E. GYPSUM BOARD TO STEEL STUDS:
- #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GAUGE OR 20 GAUGE STUDS
- #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
- FIELD - 12" O.C. CEILINGS, 24" O.C. WALLS
- BUTT JOINTS 12" O.C.

F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
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CARL L LINGLE
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STATE OF COLORADO

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Issue Record:
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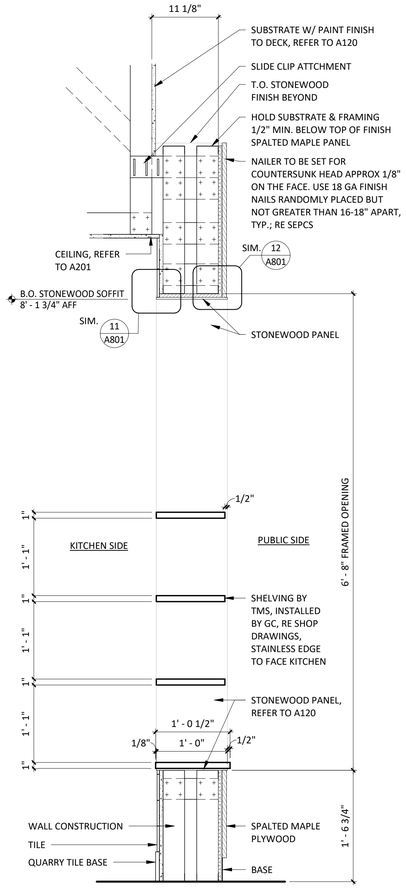
Revisions:

Drawn: JM
Checked: CL

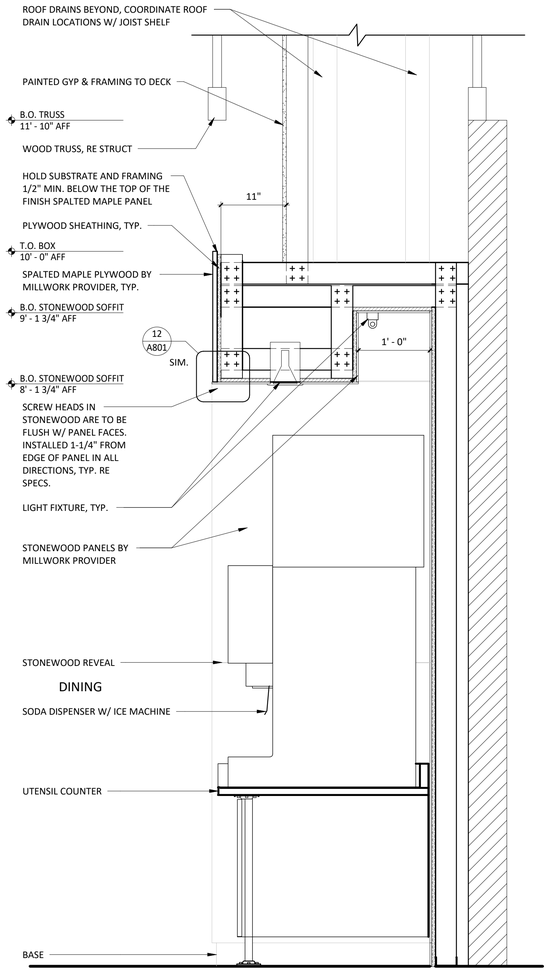
Project No.
05-5119

Contents:
ARCHITECTURAL WALL TYPES

A501



2 A502 **MOPUS SECTION - PASS THRU**
1" = 1'-0"



1 A502 **UTENSIL SECTION**
1" = 1'-0"

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Checked: CL

Project No.
05-5119

Contents:
INTERIOR SECTIONS

A502

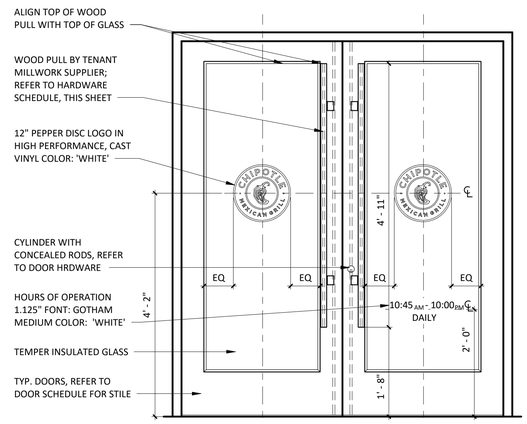
DOOR SCHEDULE

TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	NEW		DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1	NEW		1,2,4,5
2	DINING	NEW		SINGLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2A	NEW		1,3,4,5
3	KITCHEN	NEW	NEW	HM REAR KITCHEN (STANDARD)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3	NEW		1,4,6
4	OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4	NEW		
5	UNISEX 1	NEW	NEW	UNISEX 1 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6	NEW		
6	UNISEX 2	NEW	NEW	UNISEX 2 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5	NEW		
100A	MAIN ENTRY	NEW		SINGLE STOREFRONT - VESTIBULE (WIDE STILE, NON-OFFSET)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D	NEW		1,2,5
100B	MAIN ENTRY	NEW	NEW	SINGLE STOREFRONT - VESTIBULE (WIDE STILE, NON-OFFSET)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D	NEW		1,2,5

REMARK NOTES

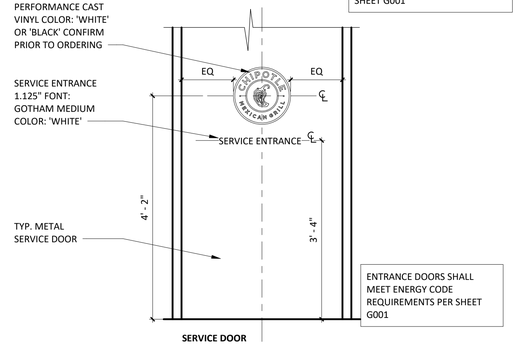
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS.
3. THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER
4. USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5. BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT
6. REAR KITCHEN DOOR TO BE PAINTED 'BLACK' ON INTERIOR AND 'KNIGHT'S ARMOR' ON EXTERIOR U.N.O.

TYPICAL EXTERIOR DOOR TYPES



MAIN/SINGLE ENTRY DOOR

ENTRANCE DOORS SHALL MEET ENERGY CODE REQUIREMENTS PER SHEET G001



SERVICE DOOR

ENTRANCE DOORS SHALL MEET ENERGY CODE REQUIREMENTS PER SHEET G001

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-18
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 2A - ENTRY - SINGLE - NON-OFFSET - PANIC HARDWARE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE	HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-US32D (ALUMINUM)
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

SET 2D - ENTRY - SINGLE - VESTIBULE (1)

(1)	HINGE	HAGER, MODEL 780-224HD-84"-CLR
(1)	PUSH HARDWARE	HAGER, MODEL 30S, 4"X16" US32D STAINLESS STEEL
(1)	PULL HARDWARE	HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 3 - REAR EXIT - SINGLE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL UG98B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 4 - MANAGER'S OFFICE

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL L9453L-06A-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	DOOR STOP	DON-JO, MODEL 1407-630, STAINLESS STEEL
(3)	DOOR SILENCERS	IVES, MODEL SR64
(1)	SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPPAK SLIMLINE 12" X 12" X 1/4" LITE KIT (10" X 10" GLASS VISIBLE)

SET 5 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 6 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

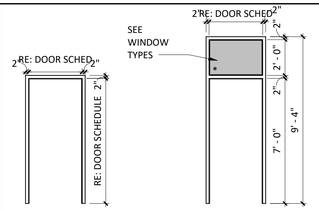
GENERAL NOTES

1. RE A602 FOR STOREFRONT DETAILS, TYPES AMD WINDOW TYPES.
2. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.
3. SEE G001 FOR SPECIFIC PROJECT ENERGY CODE REQUIREMENTS AND VALUES THAY SHALL BE MET.
4. SEE A602 FOR GLAZING NOTES.

DOOR NOTES

1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
4. ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5. SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.
6. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7. ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY TENANT HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CALL PETE KLIMEK WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY. STOREFRONT DOORS ARE TO BE PROVIDED BY G.C., STOREFRONT HARDWARE PROVIDED BY TENANT HARDWARE SUPPLIER.
8. THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. ALL SUPPORT SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER.
10. ALL SUPPORT SIGNAGE INSTALLED BY G.C.
11. ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING

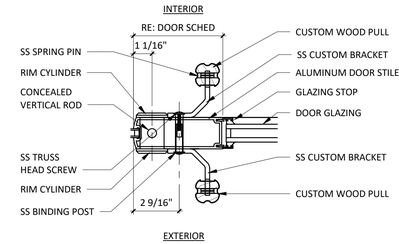
DOOR FRAMES



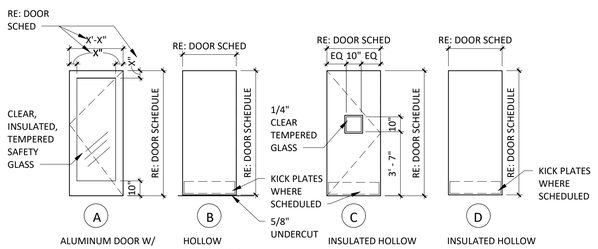
1 NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

2 NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

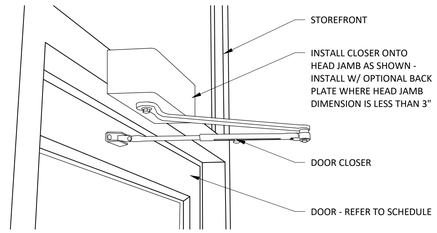
CUSTOM WOOD PULL



DOOR TYPES



DOOR CLOSER



TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

Consultant:

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
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306135
STATE OF COLORADO

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STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

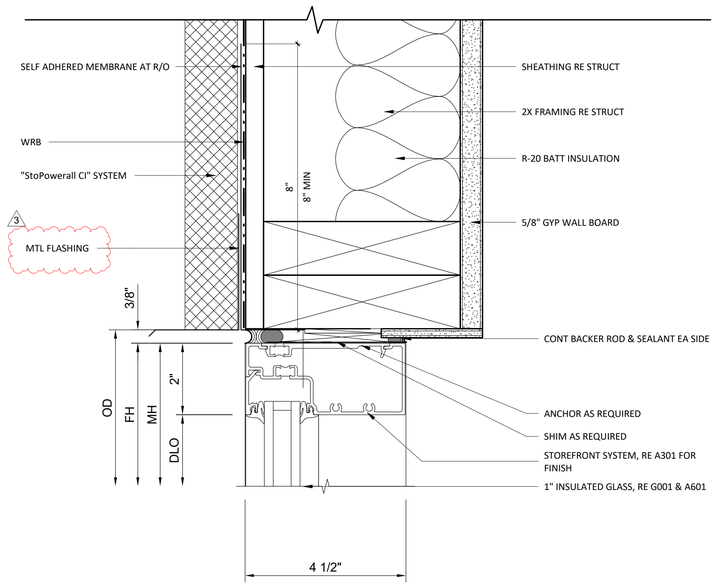
1	08/07/2024	PERMIT COMMENTS

Drawn: JM
Checked: CL

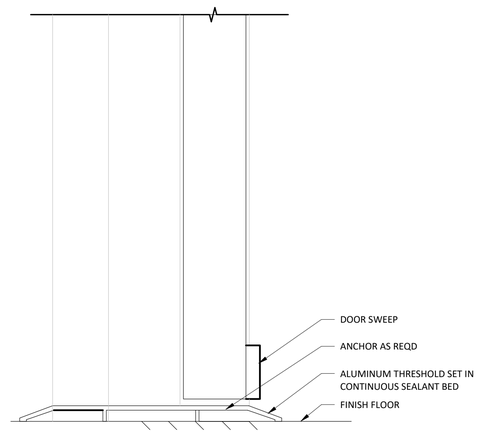
Project No.: 05-5119

Contents: DOOR & HARDWARE SCHEDULE

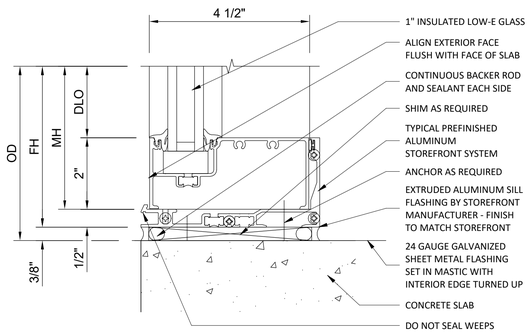
A601



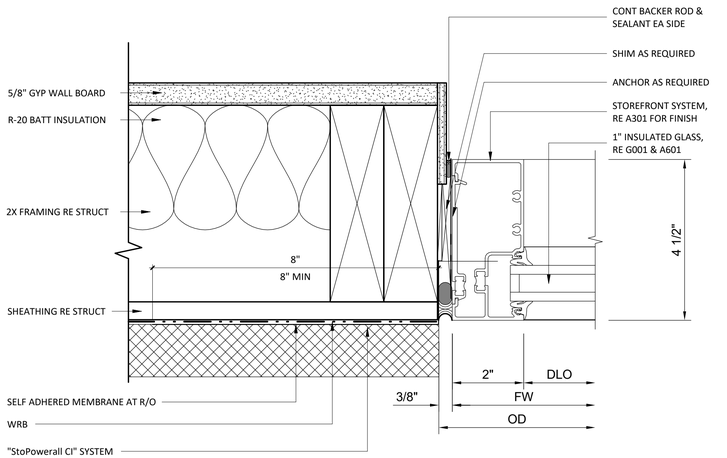
5 A602 **STOREFRONT HEAD DETAIL**
6" = 1'-0"



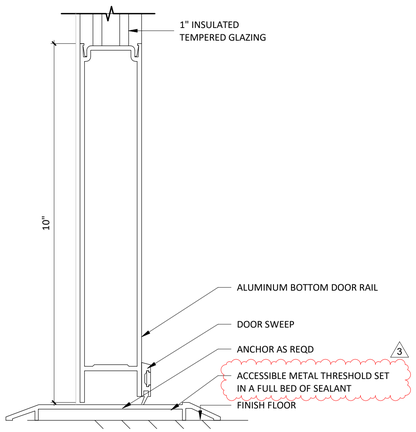
4 A602 **HOLLOW METAL THRESHOLD**
6" = 1'-0"



3 A602 **STOREFRONT SILL DETAIL**
6" = 1'-0"



2 A602 **STOREFRONT JAMB DETAIL**
6" = 1'-0"

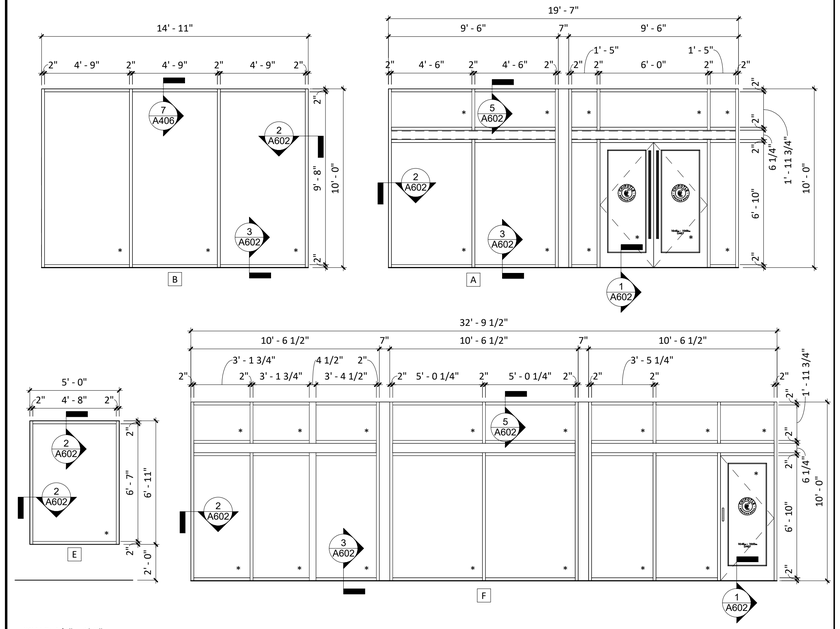


1 A602 **STOREFRONT THRESHOLD**
6" = 1'-0"

GENERAL NOTES

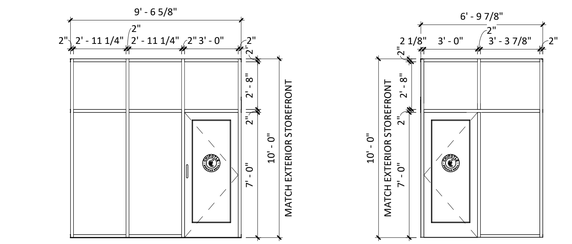
1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "*".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR CHIPOTLE CONSTRUCTION MANAGER PRIOR TO FABRICATION.
4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER PREFINISHED ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, REFER TO SPECIFICATIONS.
5. STOREFRONT SYSTEM IS 2" x 6" NOMINAL DIMENSION; CENTER SET, U.N.O.
6. SEE G001 FOR SPECIFIC PROJECT ENERGY CODE REQUIREMENTS AND VALUES THAT SHALL BE MET.

STOREFRONT TYPES



SCALE: 1/4" = 1'-0"

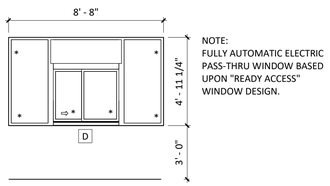
VESTIBULE ELEVATIONS



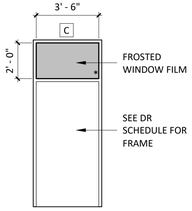
7 A602 **INT ELEV - DINING**
1/4" = 1'-0"

6 A602 **INT ELEV - VESTIBULE**
1/4" = 1'-0"

WINDOW TYPES



NOTE:
FULLY AUTOMATIC ELECTRIC PASS-THRU WINDOW BASED UPON "READY ACCESS" WINDOW DESIGN.



SCALE: 1/4" = 1'-0"

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3	10/01/2024	Revision 3

Drawn: JM
Checked: CL

Project No.
05-5119

Contents:
STOREFRONT DETAILS

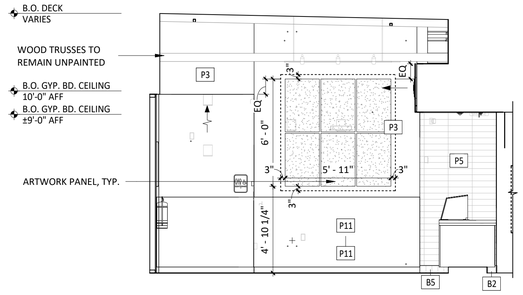
A602

LEGEND

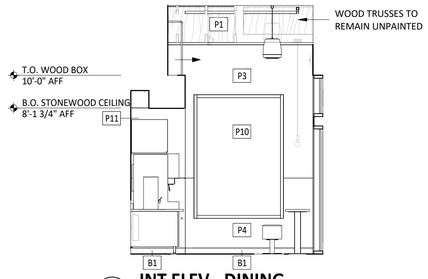
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

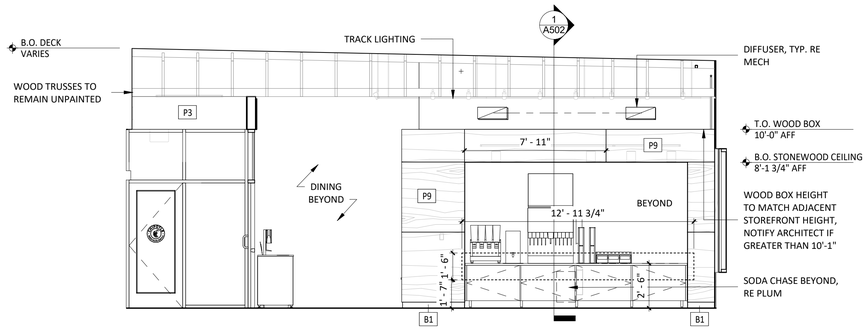
1. REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. REFER TO A120 FOR FINISH SCHEDULE.
3. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



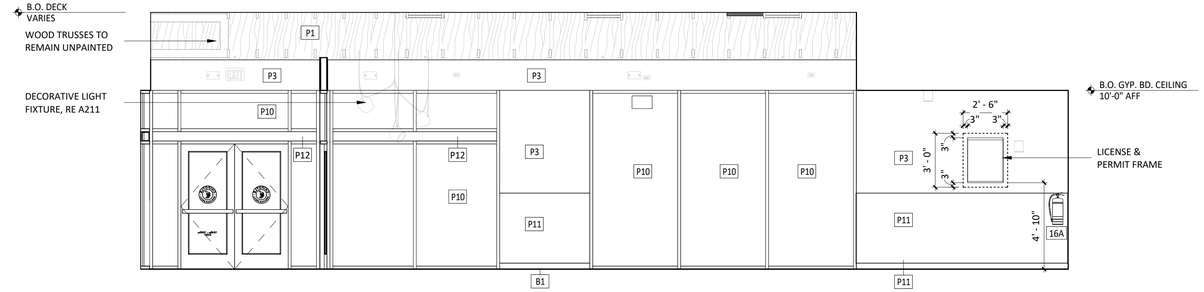
8 A701 **INT ELEV - DINING**
1/4" = 1'-0"



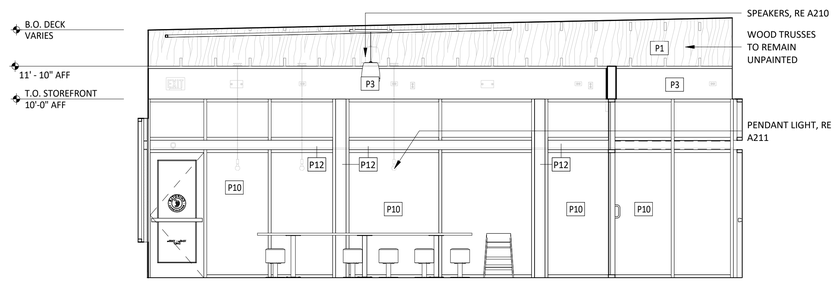
7 A701 **INT ELEV - DINING**
1/4" = 1'-0"



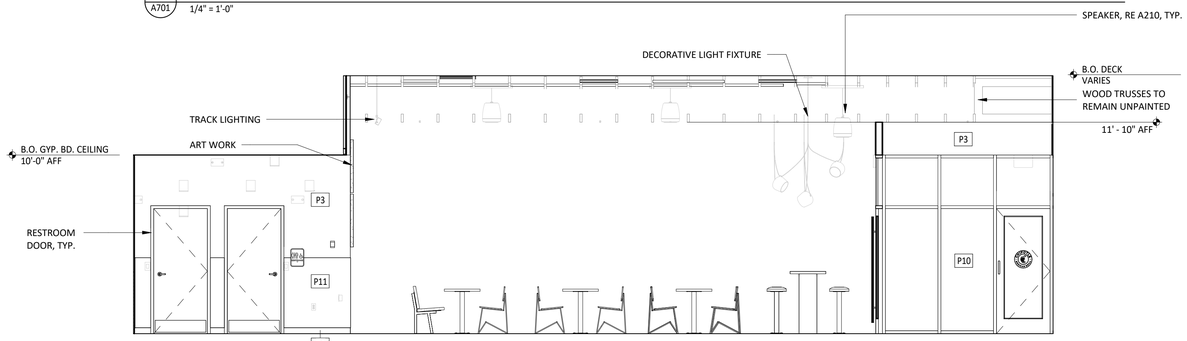
6 A701 **INT ELEV - DINING**
1/4" = 1'-0"



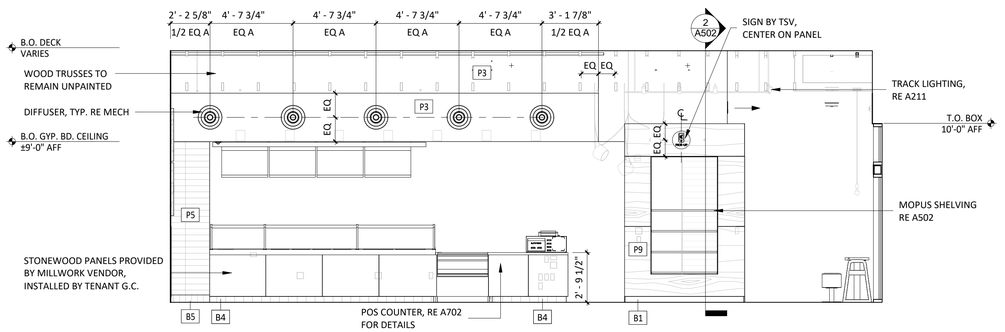
5 A701 **INT ELEV - DINING**
1/4" = 1'-0"



4 A701 **INT ELEV - DINING**
1/4" = 1'-0"



3 A701 **INT ELEV - DINING**
1/4" = 1'-0"



1 A701 **INT ELEV - DINING**
1/4" = 1'-0"

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Issue Record:

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Drawn: EYW
Checked: CL

Project No.
05-5119

Contents:
ELEVATIONS - INTERIOR DINING

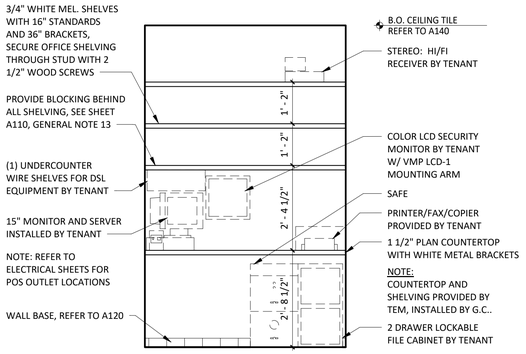
A701

GENERAL NOTES

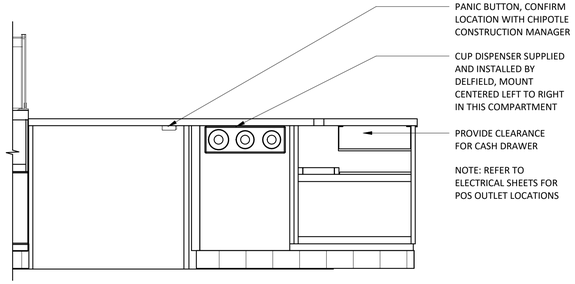
1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

LEGEND

DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

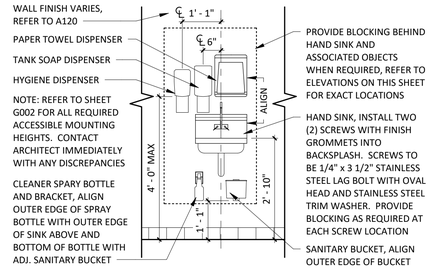


16 A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"

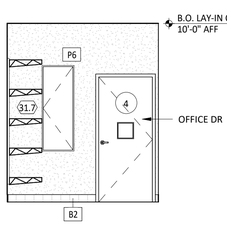


15 A702 **TYP. ELEV - POS**
3/4" = 1'-0"

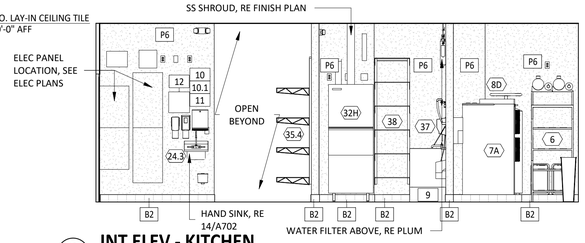
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



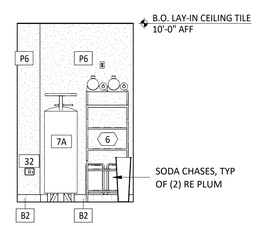
14 A702 **TYP ELEV - HAND SINK**
1/2" = 1'-0"



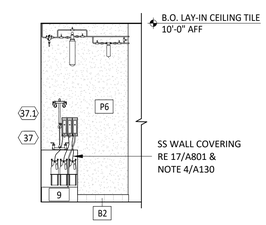
13 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



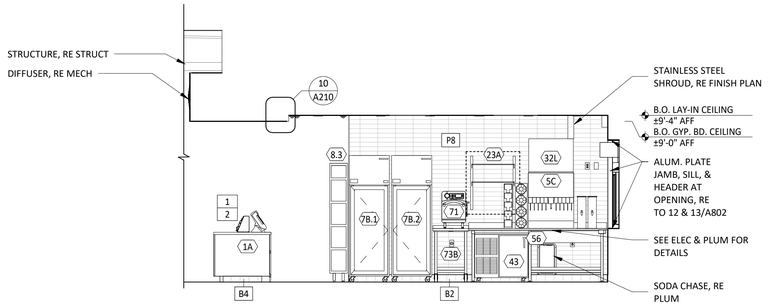
12 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



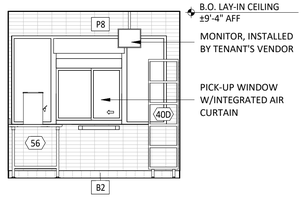
11 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



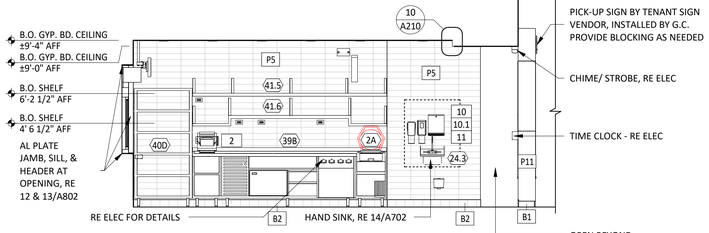
10 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



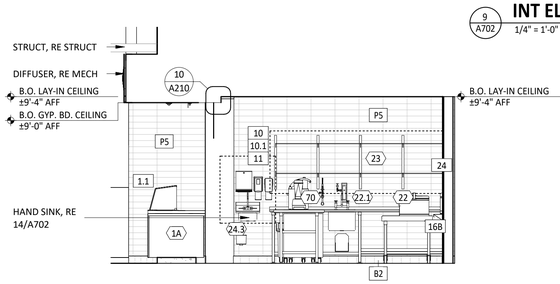
9 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



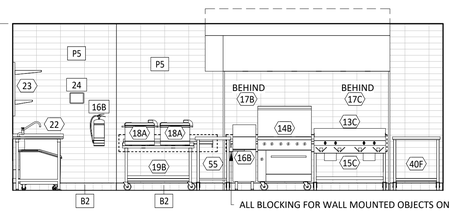
8 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



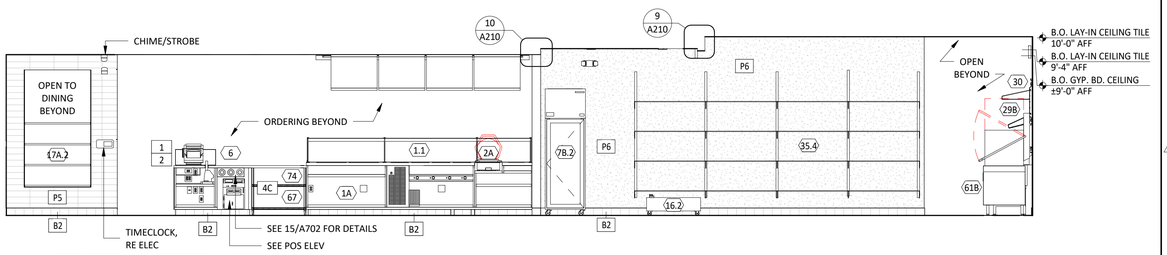
7 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



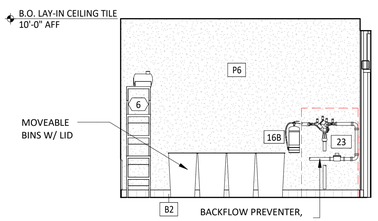
6 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



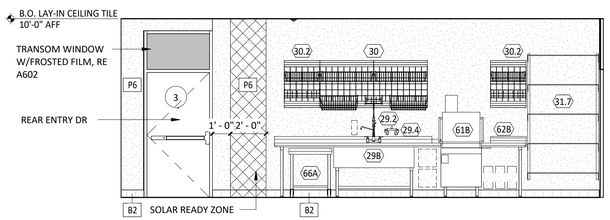
5 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



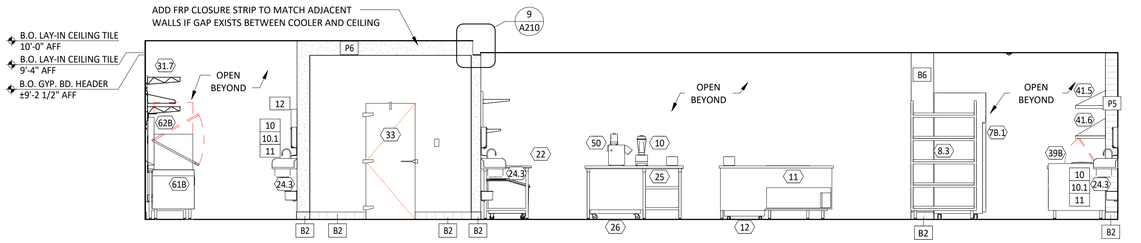
4 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



3 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



2 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



1 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"

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Contents:
ELEVATIONS - INTERIOR KITCHEN

A702

RESTROOM ACCESSORY SCHEDULE

ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	MOUNTING HEIGHT	REMARKS
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC	36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC	40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC	36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
3A	Vandal Proof Mirror	Sentry Mirror	20" x 30" Vandal Proof Mirror	2	TS	GC	Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC	47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC	29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
8	Utility Shelf	ASI	0692	2	WA	GC	46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC	Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC	Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC	Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB300-05	2	WA	GC	Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

PLUMBING FIXTURE SCHEDULE

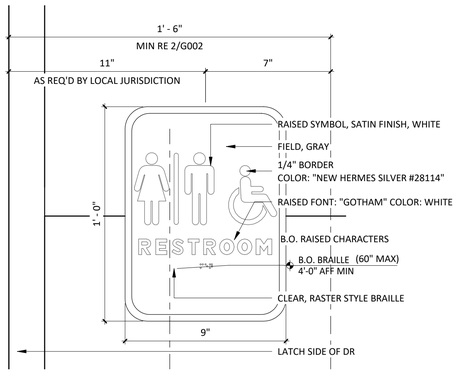
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	MOUNTING HEIGHT	REMARKS
14	Restroom Hand Sink	SEE MEP	SEE MEP	2	GC	GC	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC		To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.

GENERAL NOTES

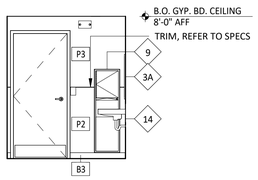
1. ALL DIMENSIONS ARE TO F/O WALL FINISH UNLESS OTHERWISE NOTED.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4. REFER TO A120 FOR FINISH SCHEDULE.
5. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

LEGEND

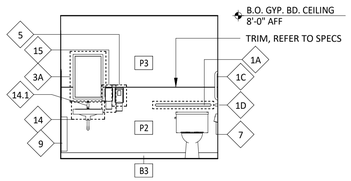
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



11 A710 **ADA RR Signage Elevation**
3" = 1'-0"



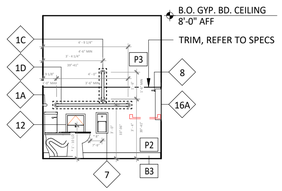
8 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



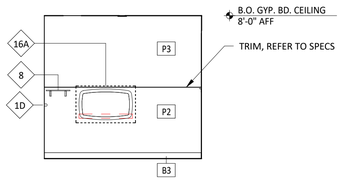
7 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"

*18" MIN PER 2017 ICC A117.1 FIG. 604.7.1 (C) DISPENSER OUTLET LOCATION RECESSED DISPENSER

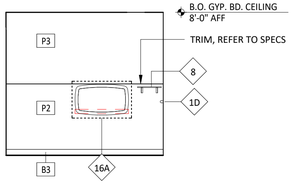
**3'-9" PER 2017 ICC A117.1 FIG. 604.7.1 (D) DISPENSER OUTLET LOCATION IN FRONT OF WATER CLOSET - EXCEPTION



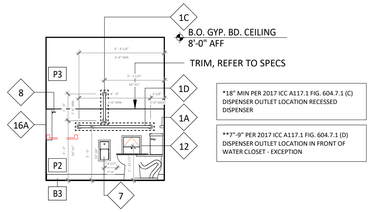
6 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



5 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



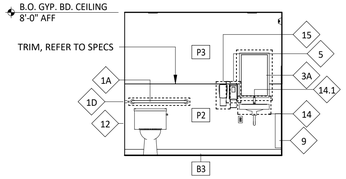
4 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



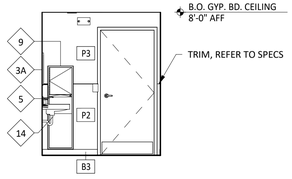
*18" MIN PER 2017 ICC A117.1 FIG. 604.7.1 (C) DISPENSER OUTLET LOCATION RECESSED DISPENSER

**3'-9" PER 2017 ICC A117.1 FIG. 604.7.1 (D) DISPENSER OUTLET LOCATION IN FRONT OF WATER CLOSET - EXCEPTION

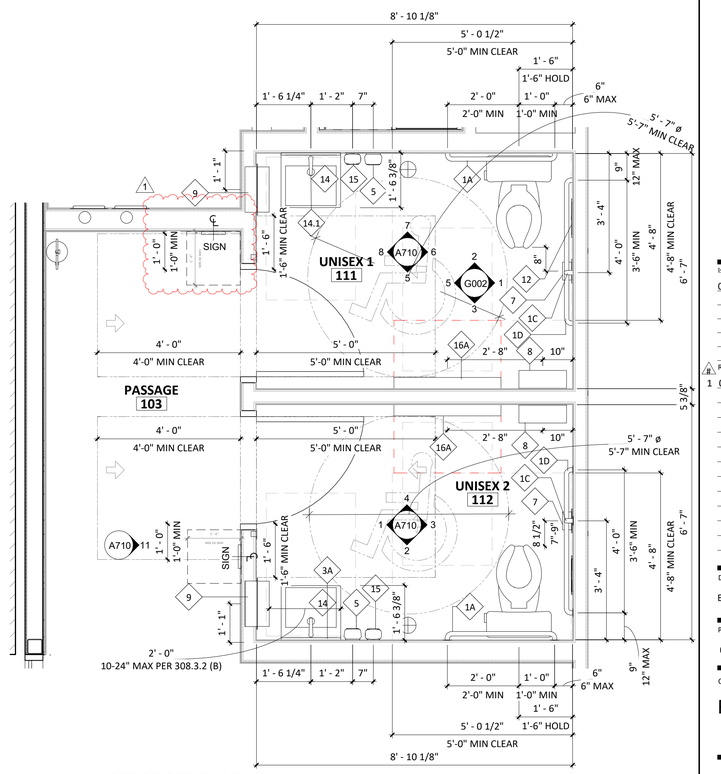
3 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



2 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



1 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



9 A710 **ENLARGED PLAN**
1/2" = 1'-0"

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Revisions:
1 08/07/2024 PERMIT COMMENTS

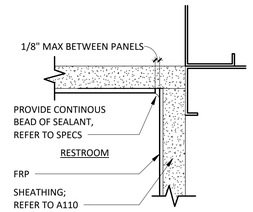
Drawn: EYW
Checked: CL

Project No.
05-5119

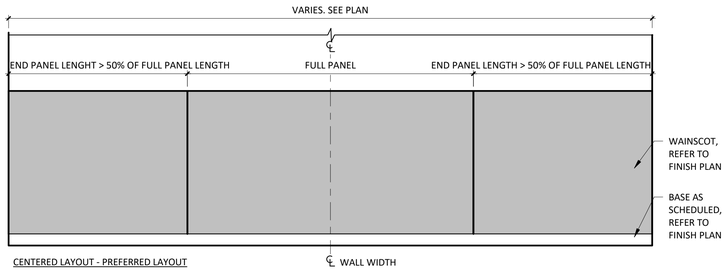
Contents:
RESTROOM DETAILS

A710

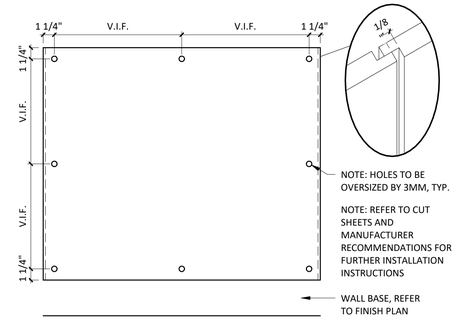
NOTE: ALL CONCEALED WOOD TO BE FRT RATED



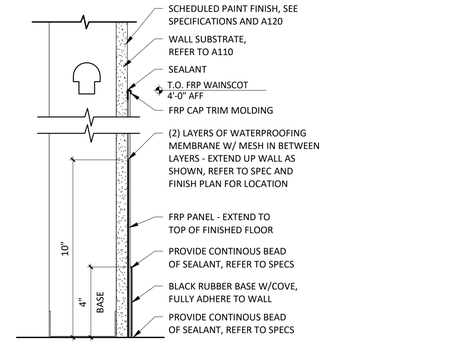
20 A801 **PLAN - RR FRP INSIDE CORNER**
6" = 1'-0"



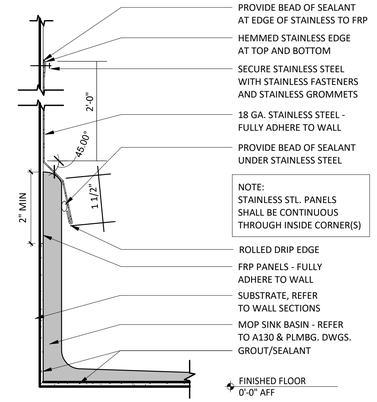
16 A801 **WAINSCOT LAYOUT**
1/2" = 1'-0"



19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"

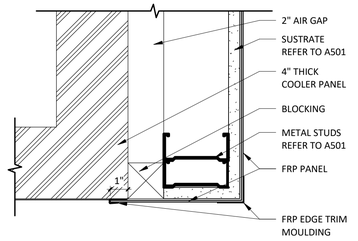


18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"

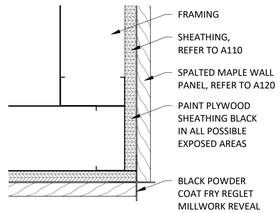


17 A801 **SECTION @ MOP SINK**
6" = 1'-0"

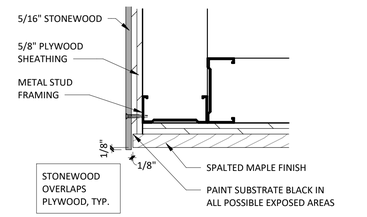
15 A801 **NOT USED**
N.T.S.



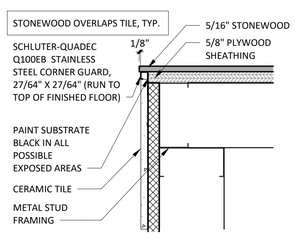
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"

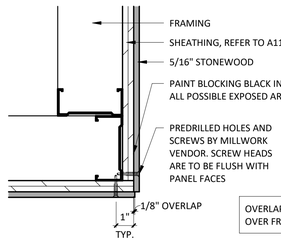


12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"

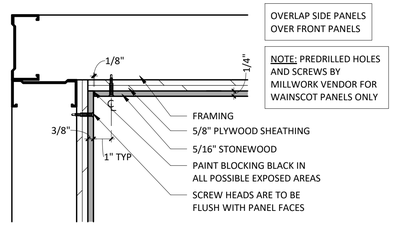


11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"

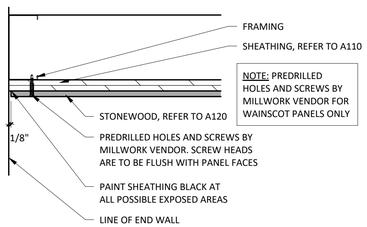
10 A801 **NOT USED**
N.T.S.



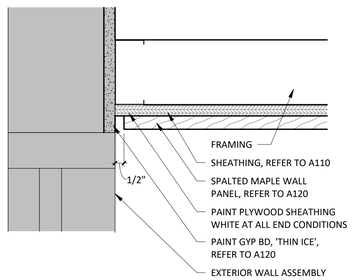
9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"



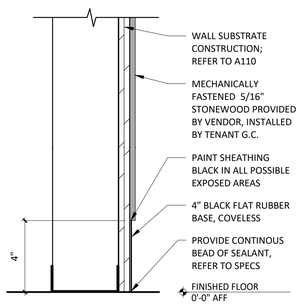
8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"



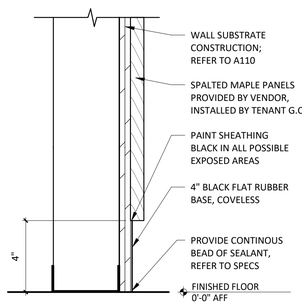
7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"



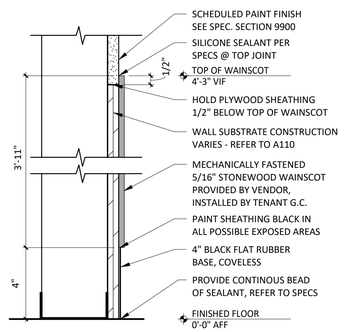
6 A801 **PLAN - WOOD END CONDITION**
3" = 1'-0"



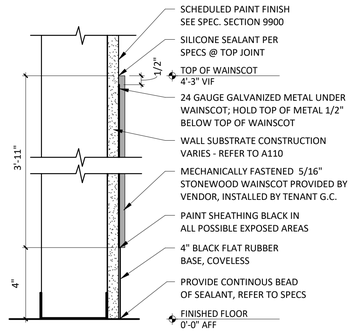
5 A801 **SECTION @ STONEWOOD**
3" = 1'-0"



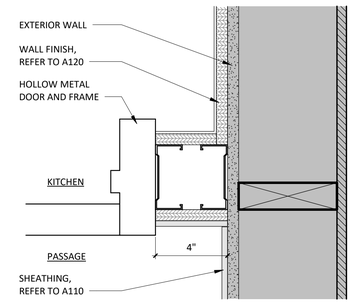
4 A801 **SECTION @ SPALTED MAPLE**
3" = 1'-0"



3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



2 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



1 A801 **PLAN - DOOR JAMB**
3" = 1'-0"

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Checked: CL

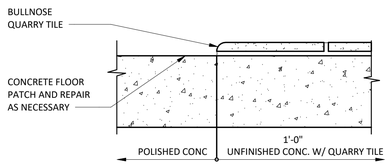
Project No.
05-5119

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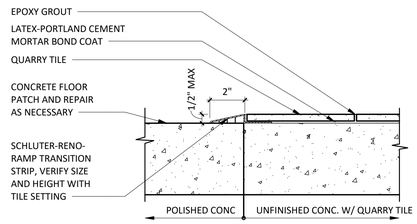
A801

GENERAL NOTES

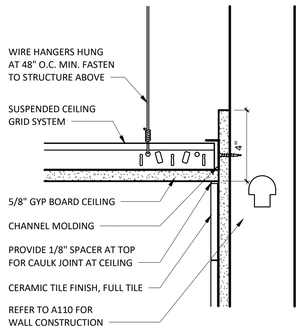
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2.	IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 25% TILE WIDTH AT WALL TERMINATIONS.
3.	UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 1 OR 2.
4.	THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



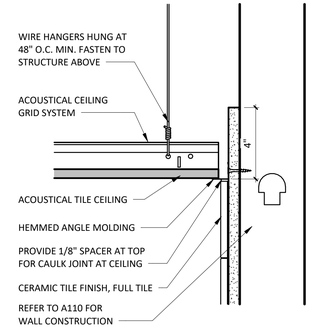
23 A802 **FLOOR TRANSITION @ READY TO DRINK**
3" = 1'-0"



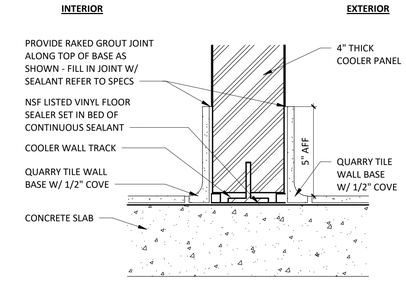
22 A802 **FLOOR TRANSITION W/ RAMP**
3" = 1'-0"



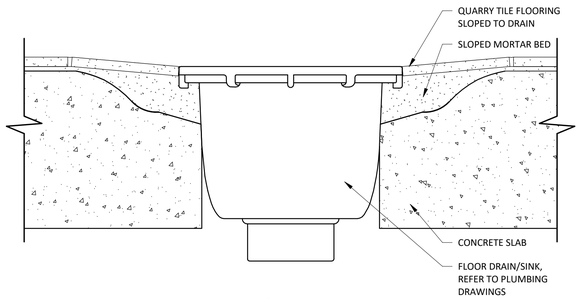
21 A802 **TILE DETAIL @ GYP BD CEILING**
3" = 1'-0"



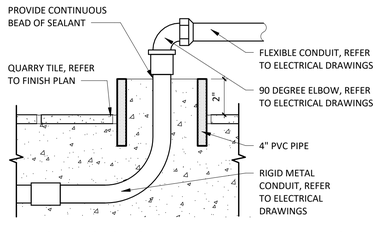
20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



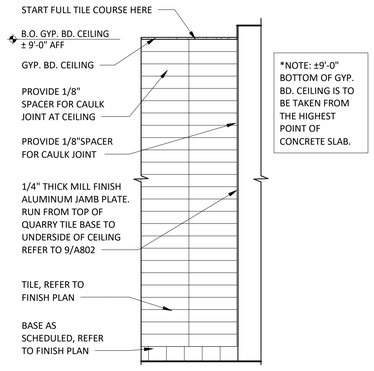
19 A802 **COOLER WALL @ QT**
3" = 1'-0"



18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"

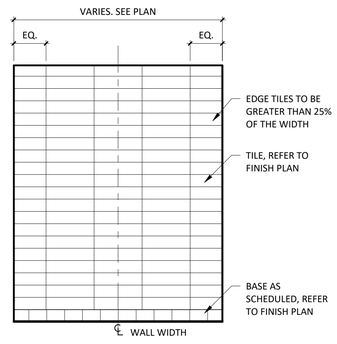


17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"

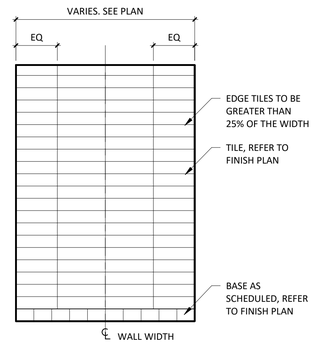


*NOTE: ±9'-0" BOTTOM OF GYP. BD. CEILING IS TO BE TAKEN FROM THE HIGHEST POINT OF CONCRETE SLAB.

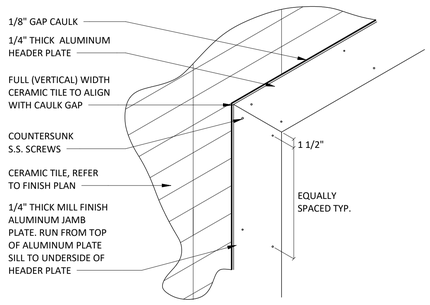
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



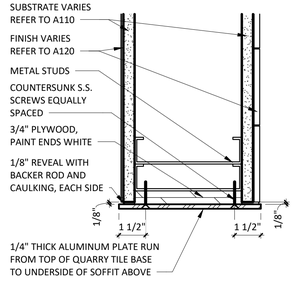
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



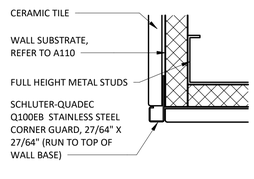
14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"



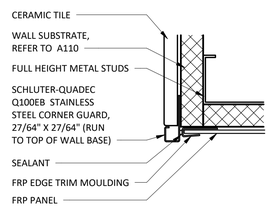
13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



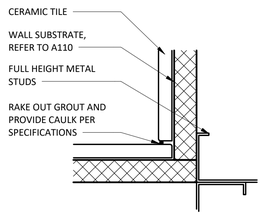
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"



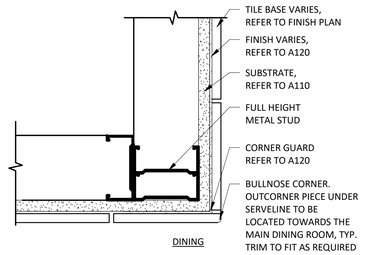
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



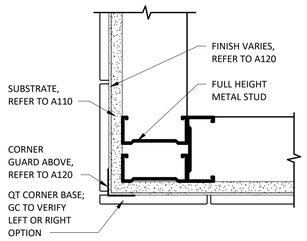
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



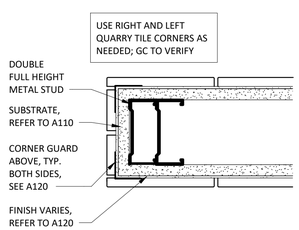
9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



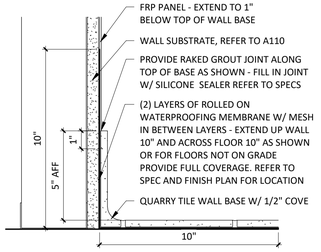
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"



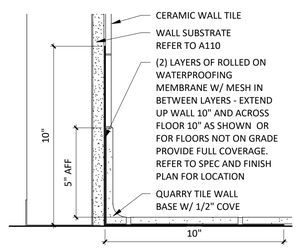
7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



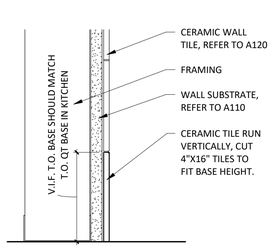
6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



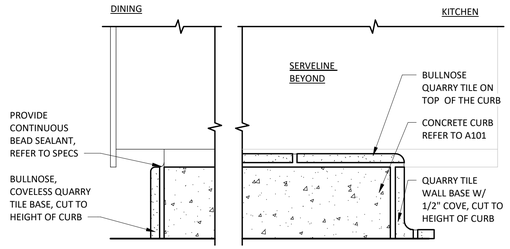
5 A802 **QT BASE @ FRP**
3" = 1'-0"



4 A802 **QT BASE @ CERAMIC TILE**
3" = 1'-0"



3 A802 **CERAMIC TILE BASE**
3" = 1'-0"



2 A802 **QT @ CURB**
3" = 1'-0"

1 A802 **QT @ CURB**
3" = 1'-0"

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Issue Record:

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Project No.
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Contents:
TILE DETAILS

A802



4 A900 **INTERIOR PERSPECTIVE**



3 A900 **INTERIOR PERSPECTIVE**



2 A900 **INTERIOR PERSPECTIVE**



1 A900 **INTERIOR PERSPECTIVE**

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Contents:
INTERIOR PERSPECTIVES

A900



4 A901 **EXTERIOR PERSPECTIVE**



3 A901 **EXTERIOR PERSPECTIVE**



2 A901 **EXTERIOR PERSPECTIVE**



1 A901 **EXTERIOR PERSPECTIVE**

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Contents:
EXTERIOR PERSPECTIVES

A901

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THE STRUCTURAL HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE 2021 COLORADO STATE BUILDING CODE AND THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC 2021).

3. PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

4. DESIGN LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

LIVE LOADS:
- FLOOR ..... 100 PSF
- ROOF ..... 20 PSF

SNOW:
- GROUND SNOW LOAD (P_g) ..... 35 PSF
- FLAT ROOF (P_f) ..... 25 PSF
- SNOW EXPOSURE FACTOR (C_e) 1.0
- SNOW IMPORTANCE FACTOR(I_s) 1.0
- THERMAL FACTOR (C_t) 1.0

WIND:
- WIND (3 SECOND GUST) ..... V_{ULT} = 115 MPH
  V_{ASD} = 89 MPH
- EXPOSURE ..... B
- RISK CATEGORY II
- INTERNAL PRESSURE GCpi ..... ±0.18
- ULTIMATE WIND BASE SHEAR (MWFRS) ..... V_x 27.6k
  V_Y 14.2k
- COMPONENTS & CLADDING PRESSURE ..... SEE CHART THIS SHEET

SEISMIC:
- SEISMIC IMPORTANCE FACTOR (I_e) 1.0
- RISK CATEGORY II
- MAPPED SPECTRAL RESPONSE ACCELERATIONS....S_S 0.199g
  S_1 ..... 0.056g
- DESIGN SPECTRAL RESPONSE ACCELERATIONS...S_{DS} 0.212g
  S_{D1} 0.090g
- SITE CLASS ..... D
- SEISMIC DESIGN CATEGORY ..... B
- BASIC SEISMIC-FORCE RESISTING SYSTEM ..... LIGHT FRAMED WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
- SEISMIC RESPONSE COEFFICIENTS C_S 0.044
- ULT SEISMIC BASE SHEAR (V) 2.5k
- RESPONSE MODIFICATION FACTOR R 6.5
- ANALYSIS PROCEDURE USED ..... EQUIVALENT LATERAL FORCE

5. COORDINATE STRUCTURAL, ARCHITECTURAL, MECHANICAL AND CIVIL DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. DISCREPANCIES MUST BE BOUGHT TO THE ATTENTION OF THE ARCHITECT.

FOUNDATION NOTES:

1. THE FOUNDATIONS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF PER THE GEOTECHNICAL REPORT BY TRIAX ENGINEERING, LLC DATED AUGUST 4, 2023. THE SOILS BENEATH THE PROPOSED FOOTINGS MUST BE CAPABLE OF SAFELY SUPPORTING THIS LOAD WITHOUT EXCESSIVE SETTLEMENT.

2. REMOVE ALL UNSUITABLE MATERIALS BELOW PROPOSED SLAB AND FOUNDATIONS AS DIRECTED BY THE GEOTECHNICAL ENGINEER. EXPANSIVE CLAYEY SANDS ARE LOCATED ON SITE. UNSUITABLE SOILS SHOULD BE REMOVED TO A MINIMUM DEPTH OF 1'-0" BELOW GRADE PER THE GEOTECHNICAL REPORT. CONTACTOR SHALL PROVIDE STRUCTURAL FILL MATERIAL OF GRAVEL COMPACTED TO A MINIMUM DRY DENSITY OF 95% IN ACCORDANCE WITH ASTM D698 (METHOD C). FORWARD ALL GEOTECHNICAL REPORTS TO THE ARCHITECT.

3. TAKE PRECAUTIONS NECESSARY TO PREVENT STORMWATER FROM ENTERING FOUNDATION EXCAVATIONS. CONCRETE FOR FOUNDATIONS MUST NOT BE PLACED ON SOFT OR SATURATED SOIL. PROOFROLL EXPOSED SUBGRADE SOILS WITH A LARGE RUBBER-TIRED ROLLER OR LOADED DUMP TRUCK. UNSTABLE AREAS AND AREAS THAT EXHIBIT PUMPING MUST BE UNDERCUT AT THE DIRECTION OF A GEOTECHNICAL ENGINEER.

4. SUITABLE STRUCTURAL FILL MATERIAL SHOULD CONSIST OF SAND OR GRAVEL CONTAINING LESS THAN 20% BY WEIGHT OF FINES (SP, SP-SM OR SW BY THE UNIFIED SOILS CLASSIFICATION SYSTEM) AND SHOULD BE FREE FROM RUBBLE, ORGANICS, CLAY, DEBRIS AND OTHER UNSUITABLE MATERIALS. THE USE OF MATERIALS MEETING COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CLASS 6 BASE COURSE IS RECOMMENDED. LIFTS (8" MAXIMUM HEIGHT PRIOR TO COMPACTION) MUST BE COMPACTED TO A MIN. OF 95% OF THEIR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 (METHOD C).

5. FILL MATERIAL PLACED ON SITE IN AREA OF BUILDING MUST BE STRUCTURAL FILL. FILL MUST BE PLACED AND COMPACTED IN 8" LIFTS MAXIMUM AND AT THE DIRECTION OF A GEOTECHNICAL ENGINEER.

6. CONTRACTOR SHALL PROOFROLL EXPOSED SUBGRADE SOILS WITH A LARGE RUBBER-TIRED ROLLER OR LOADED DUMP TRUCK WITH A GROSS WEIGTH NOT LESS THAN 30,000 POUNDS. ALL UNSTABLE AREAS THAT EXHIBIT PUMPING SHALL BE UNDERCUT AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. COORDINATE ALL CUT AND BACKFILL OPERATIONS WITH THE GEOTECHNICAL ENGINEER.

CONCRETE NOTES:

1. CONCRETE CONSTRUCTION MUST BE IN ACCORDANCE WITH THE ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "STRUCTURAL CONCRETE FOR BUILDINGS"

2. CONCRETE MUST BE NORMAL WEIGHT AND HAVE THE FOLLOWING (28) DAY COMPRESSIVE STRENGTH AND MAXIMUM SLUMPS:
   - A. FOUNDATIONS AND STEM WALLS..... 3,500 PSI, 4"
   - B. INTERIOR SLAB ON GRADE..... 4,000 PSI, 4" TO 5"
   - NOTE: SLUMPS MUST BE..... ±1/2" (SLUMP MEASURED PRIOR TO SUPERPLASTICIZER, WHERE OCCURS)

3. CONCRETE EXPOSED TO FREEZE/THAW CYCLE MUST HAVE 6% (±1 1/2%) ENTRAINED AIR.

4. REINFORCING STEEL:
   - A. DEFORMED BARS (DO NOT WELD)..... ASTM A615 (GRADE 60)
   - B. WELDED WIRE REINFORCING..... ASTM A185 (FLAT SHEETS ONLY)

5. COVER TO REINFORCEMENT:
   - A. BOTTOM OF FOUNDATIONS..... 3"
   - B. SIDES OF FOUNDATIONS (WITHOUT SIDE FORMS)..... 3"
   - C. SIDES OF FOUNDATIONS (FORMED SURFACES)..... 2"
   - D. TOP COVER TO WWR..... 1 1/2"
   - E. OTHER AS NOTED IN SECTIONS OR IN ACI 318.

6. ADHESIVE ANCHORS MUST CONSIST OF GRADE 60 REBAR OR -THREAD ANCHOR ROD, NUT, WASHER, SCREEN AND ADHESIVE. ANCHOR RODS MUST BE GRADE A. EPOXY ANCHORS MUST BE INSTALLED USING AT LEAST MINIMUM DEPTHS, EDGE DISTANCES, SPACING (UNLESS NOTED OTHERWISE), AND INSTALLATION PROCEDURES AS RECOMMENDED BY THE MANUFACTURER. DO NOT APPLY LOAD TO ANCHOR UNTIL RESIN HAS CURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.

7. NON-SHRINK CONCRETE GROUT MUST BE A PRE-MIXED, SHRINKAGE-RESISTANT, NON-METALLIC NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SILICA SANDS, PORTLAND CEMENT, SHRINKAGE-COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS COMPLYING WITH CRD-C621 AND ASTM C1107 MIN. COMPRESSIVE STRENGTH = 4,000 PSI AT (7) DAYS.

8. CONSTRUCTION JOINTS MUST BE GENERALLY LOCATED AS RECOMMENDED BY ACI. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS AND ADDITIONAL REINFORCING AT THESE CONSTRUCTION JOINTS.

9. TORCHING TO BEND REINFORCING BARS MUST NOT BE ALLOWED.

10. PROVIDE (2) #4 x 3'-0" LONG IN CENTER OF SLAB AT RE-ENTRANT CORNERS SUCH AS BLOCK-OUTS, END OF WALLS, DOORWAYS, ETC.

11. ITEMS EMBEDDED IN CONCRETE OR GROUTED CMU MUST BE TIED AND SECURED PRIOR TO PLACEMENT OF CONCRETE OR GROUT. NO "WET SETTING" IS ALLOWED.

12. REINFORCING SUPPLIER MUST PROVIDE COMPLETE PLACEMENT AND FABRICATING DRAWINGS FOR REINFORCING INCLUDING THE LOCATION AND SIZE OF ACCESSORIES AND SUPPORTS. SECTIONS MUST BE SHOWN FOR DIFFERENT CONDITIONS.

13. FOR SLAB-ON-GRADE, SLAB REINFORCING MUST BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS MUST BE SPACED A MAXIMUM OF 4'-0" ON CENTER BOTH WAYS IN STRAIGHT LINES ON THE WELDED WIRE REINFORCING GRID.

CONCRETE NOTES CONTINUED:

14. REINFORCEMENT SHOWN TO BE CONTINUOUS, MUST BE LAPPED PER THE FOLLOWING TABLE:

MINIMUM CONCRETE LAP LENGTH (IN.)						
CONCRETE	#4	#5	#6	#7	#8	#9
3,500 PSI	29"	36"	43"	64"	73"	81"
4,000 PSI	25"	31"	37"	55"	63"	70"

15. CONTROL JOINT MUST BE CUT WITHIN (6) SIX HOURS OF FINISHING OR AS SOON AS CONCRETE HAS SET TO AVOID RAVELING OF EDGES. COORDINATE JOINT PATTERN WITH TILE PATTERNS OR SIMILAR. DO NOT EXCEED 12'-0" ON CENTER. DO NOT TERMINATE JOINTS TO FORM 'T' JUNCTION.

16. AGGREGATES IN NORMAL WEIGHT CONCRETE MUST CONFORM TO ASTM C-33 (HARDROCK).

17. COMPRESSIVE STRENGTH TEST REPORTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD.

18. PORTLAND CEMENT MUST BE TYPE II FOR CONCRETE CONFORMING TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE MUST BE SUBMITTED.

19. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED PER ACI 318, SECTION 5.3.

20. CONCRETE MIXING OPERATIONS, ETC. MUST CONFORM TO ASTM C94.

21. DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX MUST BE CLEAN AND POTABLE.

22. FOR INTERIOR SLAB-ON-GRADE AND OTHER SLABS RECEIVING ADHERED FLOORING FINISHES, THE MAXIMUM W/C RATIO MUST NOT EXCEED 0.46.

MASONRY NOTES:

1. MASONRY CONSTRUCTION MUST BE IN ACCORDANCE WITH THE 2016 EDITION OF THE TMS 402-16 " BUILDING CODE FOR MASONRY STRUCTURES", AND THE 2016 EDITION OF THE TMS 602-16 "SPECIFICATION FOR MASONRY STRUCTURES.

2. LOAD-BEARING CONCRETE MASONRY UNITS MUST BE TYPE I UNITS IN CONFORMANCE WITH ASTM C 90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE.

3. MORTAR MUST BE TYPE M OR S IN CONFORMANCE WITH ASTM C 270.

4. MASONRY UNITS MUST BE IN ACCORDANCE WITH ASTM C 90 (1900 PSI). ASSEMBLED CONCRETE MASONRY MUST ATTAIN AN ULTIMATE NET AREA COMPRESSIVE STRENGTH (f' m) OF 2800 PSI AT 28 DAYS.

5. REINFORCING STEEL MUST BE IN ACCORDANCE WITH ASTM A615, GRADE 60.

6. UNLESS OTHERWISE NOTED OR DETAILED, CENTER REINFORCING IN BLOCK CELLS AND TIE IN PLACE AT INTERVALS OF 4'-0" O/C MAXIMUM.

7. REINFORCED CELLS MUST BE FULLY GROUTED FROM TOP TO BOTTOM. GROUT MUST BE 3,000 PSI. GROUT MUST CONFORM TO ASTM C 476. GROUT MUST HAVE A SLUMP BETWEEN 8 TO 10 INCHES.

8. BUILD, REINFORCE, AND GROUT THE MASONRY WALL, VIBRATING GROUT IMMEDIATELY AFTER PLACEMENT.

9. PROVIDE REBAR DOWELS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM WALLS OR FOOTINGS. DOWELS INTO FOOTINGS MUST HAVE STANDARD ACI HOOKS AND MUST LAP 40 BAR DIAMETERS. REINFORCING WALL BARS MUST LAP AS INDICATED BELOW:

MASONRY LAP LENGTH (IN.)					
CMU	#4	#5	#6	#7	#8
8" CMU	26"	32"	39"	MS	MS

MS = MECHANICAL SPLICES REQUIRED W/ 125% OF BAR TENSILE CAPACITY. AT THE CONTRACTORS OPTION, MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES SHOWN.

10. PROVIDE GALVANIZED HORIZONTAL LADDER TYPE JOINT REINFORCING WITH STANDARD LADDER TYPE NO. 9 GAUGE CROSS RODS AT 16" O/C ON WALLS. PROVIDE HORIZONTAL JOINT REINFORCING IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW OPENINGS, EXTENDING A MINIMUM OF 2'-0" BEYOND THE JAMB ON EACH SIDE OF THE OPENING.

11. VERTICAL CELLS TO BE FILLED MUST HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 2 INCHES BY 3 INCHES. "WET SETTING" REINFORCING IS NOT ALLOWED.

12. IF HIGH LIFT GROUTING IS USED (GROUT POUR IS IN EXCESS OF FOUR FEET IN HEIGHT), CLEANOUT OPENINGS, AT LEAST 12 SQUARE INCHES, MUST BE PROVIDED AT THE BOTTOM OF CELLS TO BE FILLED AT EACH POUR OF GROUT.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOURTEENTH EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), ALLOWABLE STRESS DESIGN".

2. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:
   - A. STRUCTURAL TUBING (HSS) - ASTM A500, GRADE C, Fy = 50 KSI.
   - B. MISCELLANEOUS STEEL ANGLES, CHANNELS AND PLATES - ASTM A36, GRADE 36 KSI.
   - C. STRUCTURAL WIDE FLANGE SHAPES - ASTM A992, GRADE 50, Fy = 50 KSI
   - D. ANCHOR RODS - ASTM F1554, GRADE 36, Fy = 36 KSI.
   - E. POST CONSTRUCTION ADHESIVE ANCHORS: ANCHOR ROD; GRADE 60 REBAR; OR ASTM A36 -THREAD ANCHORED TO SUBSTRATE WITH HILTI HY200 EPOXY (IN CONCRETE) OR HILTI HY270 EPOXY (IN MASONRY).

3. STRUCTURAL STEEL WORK MUST CONFORM TO AISC STANDARDS.

4. FIELD BOLTED SHEAR CONNECTIONS MUST BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE) WITH A MINIMUM OF (2)-3/4 INCH DIAMETER ASTM A325 HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.

5. STEEL EXPOSED TO WEATHER MUST BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 UNLESS OTHERWISE NOTED.

6. WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN.

7. 0.157" DIAMETER POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS:
   - A. CONCRETE: SHEAR = 260 POUNDS; TENSION = 255 POUNDS (3" EDGE DISTANCE)
   - B. STEEL: SHEAR = 600 POUNDS; TENSION = 250 POUNDS (1/2" EDGE DISTANCE)

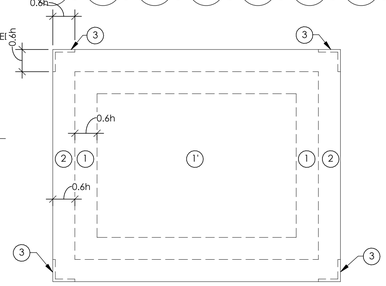
COMPONENTS AND CLADDING NOTES

1. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

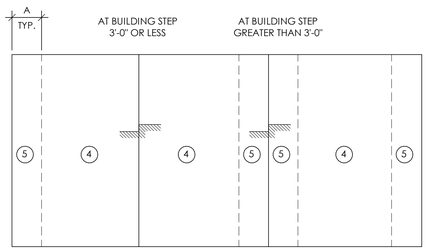
2. BUILDING ZONES ARE DEFINED IN ASCE 7.

COMPONENTS AND CLADDING WIND LOADS...

ZONE		EFFECTIVE WIND AREA (S.F.) 10 PRESS.	10 SUCT.	20 PRESS.	20 SUCT.	50 PRESS.	50 SUCT.	100 PRESS.	100 SUCT.
	1	16.00	-33.80	16.00	-33.80	16.00	-28.80	16.00	-25.80
ROOF	2	16.00	-54.00	16.00	-46.90	16.00	-28.80	16.00	-25.80
	3	16.00	-58.00	16.00	-51.00	16.00	-39.90	16.00	-39.90
	OH 2/3	-60.43	-72.52	-56.40	-62.45	-50.36	-49.35	-46.33	-39.28
	4	21.80	-23.60	19.90	-22.70	19.00	-20.80	18.50	-19.90
WALL	5	21.80	-29.00	19.90	-27.20	19.00	-25.00	18.50	-22.80
	PARA. 4	60.66	-33.72	52.81	-31.31	35.95	-28.90	32.79	-27.62
	PARA. 5	64.22	-38.53	56.37	-35.32	45.76	-32.59	45.28	-30.19



PLAN



WALL ELEVATION

A=3.5'

ISOMETRIC VIEW

COMPONENTS AND CLADDING DIAGRAMS

NOT TO SCALE

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Contents:
GENERAL NOTES

S001

23.170

WOOD NOTES:

1. ALL WOOD SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "NATIONAL DESIGN SPECIFICATION," AND THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION" (APA). WOOD FRAMING LUMBER SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARDS" AND THE SOUTHERN PINE INSPECTION BUREAU (SPIB) GRADING RULES.

2. ALL STRUCTURAL FRAMING LUMBER FOR BEARING AND SHEAR WALLS SHALL BE SEASONED NO. 2 SOUTHERN PINE USED AT 19 PERCENT MOISTURE CONTENT UNLESS OTHERWISE NOTED. ALL NON-STRUCTURAL, NON-BEARING WALLS CAN BE EITHER NO. 2 SPRUCE PINE FIR OR NO. 2 SOUTHERN PINE USED SEASONED AT 19 PERCENT MOISTURE CONTENT UNLESS OTHERWISE NOTED.

3. ALL LUMBER EXPOSED TO WEATHER, IN CONTACT WITH CONCRETE OR MASONRY, NOTED TO BE TREATED, AND SILL PLATES SHALL BE PRESSURE TREATED.

4. ALL NAILS ARE "COMMON" NAILS AND NAILING SHALL CONFORM TO THE "FASTENING SCHEDULE" TABLE 2304.9.1 OF THE IBC UNLESS OTHERWISE NOTED.

5. ALL NAILS, BOLTS, ANCHORS AND ASSOCIATED HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 UNLESS OTHERWISE NOTED.

6. PROVIDE SIMPSON JOIST HANGARS, HOLDOWN ANCHORS, HURRICANE TIES AND OTHER ACCESSORIES AS REQUIRED IN THESE STRUCTURAL DRAWINGS (GALVANIZED) OR EQUAL AS APPROVED BY ENGINEER OF RECORD. COORDINATE WITH MANUFACTURER'S WRITTEN REQUIREMENTS.

7. SHEATHING SHALL BE 8'x4' APA RATED PANELS AND SHALL COMPLY WITH PS 1 "STRUCTURAL PLYWOOD" OR PS 2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS" AND THE FOLLOWING REQUIREMENTS:

   A. SHEATHING SHALL BE NAILED TO SUPPORTING FRAMING MEMBERS WITH 10d NAILS AT 6" O/C AROUND THE PERIMETER OF THE PANEL (EDGE NAILING) AND 12" O/C INSIDE THE PANEL (FIELD NAILING) UNLESS OTHERWISE NOTED. SEE TYPICAL DETAIL FOR SHEAR WALLS FOR ADDITIONAL INFORMATION.

   B. EXTERIOR WALL: 15/32", APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION, UNLESS OTHERWISE NOTED.

   C. ROOF SHEATHING: 23/32" A.P.A. RATED EXTERIOR GRADE SHEATHING AND SHALL BE NAILED WITH 10d NAILS TO SUPPORTING MEMBERS AT 4" O/C EDGE AND 12" O/C FIELD. PROVIDE TONGUE AND GROOVE EDGES OR PSCL CLIPS AT MIDSPAN BETWEEN SUPPORTS.

   D. SHEAR WALLS: 15/32" A.P.A. RATED SHEATHING, EXPOSURE I DURABILITY CLASSIFICATION NAILED TO SUPPORTING FRAMING MEMBERS PER SHEAR WALL SCHEDULE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

8. ENGINEERED LUMBER SHOWN (WOOD I JOISTS, LVL, PSL, ETC.) IS BASED ON DATA FROM WEYERHAEUSER AND GRADE 2.0E.

9. NAIL MULTIPLE FRAMING MEMBER BEAMS TOGETHER WITH (2)-16d NAILS AT 16 INCHES ON CENTER, ALTERNATING SIDES AND AT 2 INCHES FROM EACH EDGE OR PER MANUFACTURER'S DIRECTION.

10. 0.157" DIAMETER POWDER ACTUATED FASTENERS (PAF) SHALL HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:
    A. CONCRETE: SHEAR = 260 LBS; TENSION = 255 LBS (3" EDGE DISTANCE)
    B. STEEL: SHEAR = 600 LBS; TENSION = 250 LBS ½" EDGE DISTANCE

11. ALL EXPOSED WOOD BRACING LOCATED IN AIR RETURN PLENUMS SHALL BE FIRE RETARDANT LUMBER.

SHEAR WALL NOTES

1. SEE TYPICAL SHEAR WALL DETAILS ON SHEET S402 FOR ADDITIONAL INFORMATION NOT NOTED.

2. PROVIDE SIMPSON "CS16" STRAPS EACH SIDE OF DOOR OR WINDOW OPENINGS AND EACH SIDE OF SILL AND HEAD OF OPENING LOCATED WITHIN SHEAR WALL.

3. ALL SHEAR WALLS SHEATHING IS TO BE BLOCKED AT ALL PANEL EDGES. SEE WOOD NOTES AND TYPICAL SHEATHING NAILING PATTERN DETAIL ON SHEET S402 FOR ADDITIONAL INFORMATION.

4. SPACING OF HOLDOWN ANCHORS FOR FOUNDATION AND FLOOR FRAMING SHALL BE LOCATED AT ENDS OF SHEAR WALLS. SEE PLANS FOR LOCATIONS OF SHEAR WALLS.

PREFABRICATED WOOD TRUSS NOTES:

1. THE TRUSS MANUFACTURER MAY VARY TRUSS CONFIGURATION, MEMBER SIZE AND LUMBER GRADE AS REQUIRED TO OBTAIN SPAN AND ROOF PITCH AS NOTED. SEE ARCHITECTURAL DRAWINGS FOR OTHER REQUIREMENTS. ALTERATIONS TO LAYOUT ORIENTATION MAY CHANGE LOAD PATH AND MUST BE FLAGGED AS DEVIATIONS. THIS MAY BE SUBJECT TO ADDITIONAL ENGINEERING CHARGES AND CHANGES TO LOWER FRAMING AND FOUNDATIONS.

2. THE TRUSS MANUFACTURER SHALL NOT COUNT NUMBER OF TRUSSES SHOWN ON FRAMING PLANS TO DETERMINE NUMBER OF EACH TYPE OF TRUSS BUT SHALL USE DIMENSIONS SHOWN ON PLAN AND SHALL COORDINATE WITH PLUMBING AND MECHANICAL OPENINGS.

3. ALL TRUSS DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION OF THE NATIONAL FOREST PRODUCT ASSOCIATION AND THE TRUSS PLATE INSTITUTE (TPI).

4. THE TRUSS MANUFACTURER SHALL EMPLOY A PROFESSIONAL ENGINEER TO BE RESPONSIBLE FOR THE DESIGN OF ALL ASPECTS OF THE TRUSS INCLUDING TRUSS TO TRUSS CONNECTION, TRUSS TO STRUCTURE CONNECTIONS AND ACCESSORIES. THE TRUSS MANUFACTURER SHALL HAVE IN HIS POSSESSION THE DESIGN LOADS, THE ARCHITECTURAL DRAWINGS, THE MECHANICAL DRAWINGS AND THE STRUCTURAL TRUSS PLAN PRIOR TO TRUSSES BEING DESIGNED.

5. PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL WOOD TRUSSES INCLUDING SIZES, LOCATIONS, ALLOWABLE LOADS, AND CONNECTIONS BETWEEN TRUSSES AND TRUSS TO STRUCTURE CONNECTIONS. TRUSS CONNECTOR PLATES SHALL BE DESIGNED FOR AXIAL LOADS, ECCENTRICITY, AND NET SECTION OF METAL. SHOP DRAWINGS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROJECT'S STATE. SUBMIT CALCULATIONS, FOR RECORD PURPOSES ONLY, WITH SHOP DRAWINGS. OBTAIN ACKNOWLEDGEMENT OF RECEIPT OF CALCULATIONS PRIOR TO FABRICATING TRUSSES.

6. ALL TRUSS TO STRUCTURE HURRICANE CLIPS SHALL BE DESIGNED TO RESIST UPLIFT LOADS PROVIDED BY THE PRE-FABRICATED TRUSS MANUFACTURER. ALL ROOF FRAMING SHALL HAVE CLIPS SUFFICIENT TO RESIST UPLIFT LOADS PER COMPONENTS AND CLADDING INFORMATION SHOWN ON S001.

7. MINIMUM DESIGN LOADS FOR WOOD TRUSSES ARE AS FOLLOWS:
   A. ROOF TRUSS:
      - TOP CHORD DEAD LOAD ..... 10 PSF+5 PSF (SOLAR SYSTEM) = 15 PSF TOTAL
      - TOP CHORD LIVE LOAD ..... 20 PSF TYPICAL
      - TOP CHORD SNOW LOAD..... 25 PSF (SEE PLAN FOR APPLICABLE SNOW DRIFT LOADS)
      - BOTTOM CHORD DEAD LOAD ..... 5 PSF
      - BOTTOM CHORD LIVE LOAD ..... 0 PSF

8. THE MAXIMUM DEFLECTION OF TRUSSES SHALL BE LIMITED TO L/360 AND L/240 FOR ROOF LIVE LOAD, AND DEAD PLUS LIVE LOAD RESPECTIVELY, L IS EQUAL TO TRUSS SPAN.

9. TRUSSES SHALL BE PREFABRICATED BY A WOOD TRUSS MANUFACTURER AND SHALL BE FABRICATED USING LIGHT GAGE METAL PLATE CONNECTIONS AND CONSTRUCTED OF THE FOLLOWING MATERIALS:
   A. ALL ROOF TRUSS MEMBERS SHALL BE A MINIMUM SIZE OF 2x4 .
   B. ALL MEMBERS SHALL BE SOUTHERN PINE #2 MINIMUM GRADE KILN DRIED TO 19% M.C.
   C. CONNECTOR PLATES SHALL BE GALVANIZED SHEET STEEL CONFORMING TO GRADE A, ASTM A446 WITH EXTENDED TEETH, WHICH ARE EMBEDDED INTO WOOD FOR THE PURPOSE OF TRANSMITTING LOAD.

10. PROVIDE TEMPORARY AND PERMANENT DIAGONAL AND CONTINUOUS BRACING PERPENDICULAR TO TRUSSES AT WEB MEMBERS AS REQUIRED BY TRUSS FABRICATORS SHOP DRAWINGS AND PER THE TPI. SIZE AND SPECIES OF THE BRACING SHALL BE SELECTED BY THE TRUSS MANUFACTURER. WHERE PRESENT, THE SHEATHING PROVIDES PERMANENT BRACING FOR THE TOP CHORD MEMBERS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER HANDLING AND ERECTION OF THE TRUSSES AND FOR THE PROPER PERMANENT AND TEMPORARY BRACING. THE CONTRACTOR SHALL ENSURE THAT THE TRUSSES ARE NOT DAMAGED DURING ERECTION AND THAT THEY ARE MAINTAINED IN ALIGNMENT BEFORE, DURING AND AFTER ERECTION. THE TRUSSES SHALL BE HANDLED, BRACED AND ERECTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER.

SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS MUST BE COMPLETED PER THE SCHEDULE OF SPECIAL INSPECTIONS.

2. THE FOLLOWING ELEMENT SPECIAL INSPECTIONS SUMMARIES ARE ACCORDING TO IBC SECTIONS 1704 AND 1705.11.

3. EARTHWORK MUST BE SPECIAL INSPECTED AS FOLLOWS:
   A. PRIOR TO PLACEMENT OF PREPARED FILL, QUALITY ASSURANCE AGENT MUST DETERMINE THE SITE HAS BEEN PREPARED ACCORDING TO THE GEOTECHNICAL REPORT.

4. CONCRETE AND ELEMENTS EMBEDDED IN CONCRETE MUST BE SPECIAL INSPECTED PRIOR TO, AND DURING, PLACEMENT OF CONCRETE. SPECIAL INSPECTIONS MUST INCLUDE THE FOLLOWING:

   A. PERIODIC INSPECTION:
      1. REINFORCING STEEL SIZE AND PLACEMENT
      2. VERIFY USE OF APPROVED MIX DESIGN
      3. AFTER PLACEMENT TO ENSURE ADEQUATE CURING AND WEATHER PROTECTION PROCEDURES
      4. SURFACE PREPARATION AND DETAILS AT COLD JOINTS, INCLUDING PLACEMENT OF KEYWAYS
      5. VERIFICATION OF IN-PLACE CONCRETE STRENGTH

   B. CONTINUOUS INSPECTION:
      1. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE
      2. PLACEMENT OF CONCRETE

5. STRUCTURAL MASONRY MUST BE SPECIAL INSPECTED ACCORDING TO THE FOLLOWING:

   A. PERIODIC INSPECTION:
      1. PROPORTIONS OF SITE-PREPARED MORTAR
      2. CONSTRUCTION OF MORTAR JOINTS
      3. SPECIFIED SIZE, LOCATION, GRADE AND TYPE OF REINFORCEMENT
      4. SIZE AND LOCATION OF STRUCTURAL ELEMENTS
      5. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO PRIMARY STRUCTURAL SYSTEM
      6. CLEANLINESS OF GROUT SPACE
      7. PROTECTION OF MASONRY DURING HOT AND COLD WEATHER PLACEMENT

   B. CONTINUOUS INSPECTION:
      1. PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND / OR PRISMS
      2. GROUT PLACEMENT MUST BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS

6. STRUCTURAL STEEL FABRICATION AND ERECTION MUST BE SPECIAL INSPECTED AS FOLLOWS:

   A. PERIODIC INSPECTION:
      1. HIGH-STRENGTH BOLTS, NUTS AND WASHERS ACCORDING TO AISC 360
      2. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"
      3. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING MEMBER LOCATIONS, CONNECTION DETAILS AND OTHER BRACING AND STIFFENING DETAILS
   B. CONTINUOUS INSPECTION:
      1. FILLET WELDS GREATER THAN 5/16"
      2. FULL PENETRATION WELDS

7. POST-INSTALLED ANCHORS, INCLUDING BUT NOT LIMITED TO EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS MUST BE SPECIAL INSPECTED ACCORDING TO THE RELEVANT ANCHOR CODE EVALUATION REPORTS.

   A. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF POST-INSTALLED ANCHORS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ADHESIVE ANCHORS THAT ARE A PART OF THE LATERAL-FORCE RESISTING SYSTEM. SPECIAL INSPECTOR MUST VERIFY THE FOLLOWING:
      1. ANCHOR SIZE AND STEEL GRADE
      2. HOLE DIAMETER, LOCATION AND TYPE OF DRILL BIT
      3. COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING HOLE AND ANCHOR CLEANLINESS, AND ADHESIVE APPLICATION
      4. ANCHOR EMBEDMENT DEPTH

8. SEE THE SCHEDULE OF SPECIAL INSPECTIONS, IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE SPECIAL INSPECTED.

LEGEND/ABBREVIATIONS (STRUCTURAL SHEETS ONLY)

A.B.	ANCHOR BOLT	LLV	LONG LEG VERTICAL
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS	LOC.	LOCATIION
ABV.	ABOVE	LONG.	LONGITUDINAL
ADDTL.	ADDITIONAL	M.E.P.	MECHANICAL, ELECTRICAL AND PLUMBING
ARCH.	ARCHITECTURAL	M.P.H.	MILES PER HOUR
BLDG.	BUILDING	MANUF.	MANUFACTURER
BOTT.	BOTTOM	MAS.	MASONRY
BRG.	BEARING	MAT'L	MATERIAL
C.J.	CONSTRUCTION JOINT	MAX.	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MECH.	MECHANICAL
℄	CENTERLINE	MIN.	MINIMUM
CLR.	CLEAR	O.S.H.A.	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
COL.	COLUMN	O/C	ON CENTER
CONC.	CONCRETE	OPNG.	OPENING
CONN.	CONNECTION	OPP.	OPPOSITE
CONT.	CONTINOUS	PEJ	PREFORMED EXPANSION JOINT
CONT'R	CONTRACTOR	PSF	POUNDS PER SQUARE FOOT
COORD.	COORDINATE	PSI	POUNDS PER SQUARE INCH
C.J.	CONTROL JOINT	PL	PLATE
DEMO.	DEMOLISH	REINF.	REINFORCEMENT, REINFORCED
DET.	DETAIL	REQ'D.	REQUIRED
DIA. / ø	DIAMETER	SCHED.	SCHEDULE
DWGS.	DRAWINGS	SECT.	SECTION
E.F.	EACH FACE	SHT.	SHEET
E.W.	EACH WAY	SIM.	SIMILAR
EA.	EACH	SPA.	SPACES
ELEV. / EL.	ELEVATION	SPECS.	SPECIFICATIONS
EMBED.	EMBEDMENT	SQ.	SQUARE
EQ.	EQUAL	STD.	STANDARD
EXIST.	EXISTING	T&B	TOP AND BOTTOM
EXP.	EXPANSION	T.O.	TOP OF
FIN.	FINISH	TEMP.	TEMPERATURE
FTG.	FOOTING	THK.	THICK
GALV.	GALVANIZED	TRANS.	TRANSVERSE
H.S.	HIGH STRENGTH	TYP.	TYPICAL
HK.	HOOK	U.O.N.	UNLESS OTHERWISE NOTED
HORIZ.	HORIZONTAL	WWR	WELDED WIRE REINFORCING
INFO.	INFORMATION	W/	WITH
INSUL.	INSULATION		
LLH	LONG LEG HORIZONTAL		

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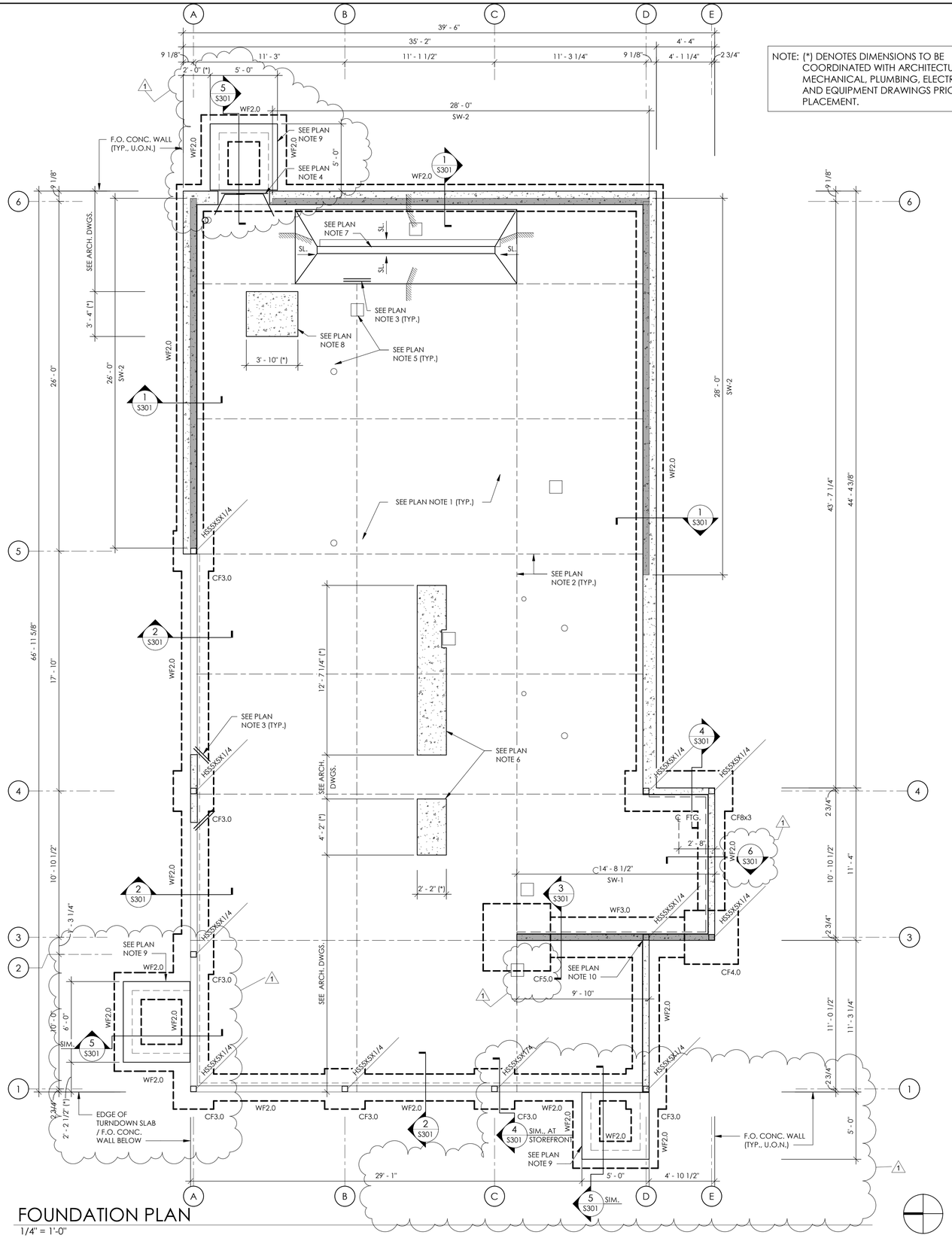
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Contents:
GENERAL NOTES

S002

33170



FOUNDATION PLAN
1/4" = 1'-0"

NOTE: (*) DENOTES DIMENSIONS TO BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND EQUIPMENT DRAWINGS PRIOR TO PLACEMENT.

FOUNDATION - GENERAL NOTES:

1. TOP OF EXTERIOR FOOTING ELEVATION SHALL BE (-2'-6") BELOW TOP OF SLAB ELEVATION. CONTRACTOR SHALL STEP FOOTINGS AS REQUIRED FOR UTILITY CROSSINGS OR POOR SOIL CONDITIONS. SEE 'TYPICAL STEPPED FOOTING DETAIL' ON SHEET S200 FOR ADDITIONAL INFORMATION.
2. WALL FOOTINGS ARE DENOTED ON PLAN, THUS WFX.X. COLUMN FOOTINGS ARE DENOTED ON PLAN, THUS CFX.X. SEE FOOTING SCHEDULES ON THIS SHEET FOR SIZE AND REINFORCING.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT STORMWATER FROM ENTERING FOUNDATION EXCAVATIONS. CONCRETE FOR FOUNDATIONS SHALL NOT BE PLACED ON SOFT OR SATURATED SOIL.
4. CONTRACTOR SHALL COORDINATE ALL UTILITY LOCATIONS WITH CIVIL, LANDSCAPE AND ARCHITECTURAL DRAWINGS. MECHANICAL AND PLUMBING LINES SHALL NOT CROSS UNDER FOOTINGS, UNLESS OTHERWISE NOTED. ALL OPENINGS IN CONCRETE STEM WALL SHALL BE LESS THAN 24" WIDE AND REINFORCED PER TYPICAL CONCRETE WALL OPENING DETAIL. SEE CIVIL DRAWINGS FOR UTILITY LINES LOCATION AND INVERT ELEVATION.
5. COORDINATE PLAN DIMENSIONS WITH ARCHITECTURAL DRAWINGS FOR OPENINGS IN EXTERIOR AND INTERIOR WALLS NOT NOTED ON PLAN. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
6. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE SLABS NOT SHOWN FOR CLARITY. PROVIDE 1/2" PEJ BETWEEN SLAB AND FOUNDATION WALL, UNLESS OTHERWISE NOTED.

FOUNDATION - PLAN NOTES:

1. FIRST FLOOR CONSTRUCTION SHALL CONSIST OF A 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 SPACED AT 12 ON CENTER EACH WAY OVER 10 MIL POLYETHYLENE VAPOR BARRIER AND 4" OF POROUS FILL MATERIAL OVER COMPACTED STRUCTURAL FILL. TOP OF SLAB ELEVATION = (0'-0"), UNLESS OTHERWISE NOTED.
2. PROVIDE SAWED JOINTS (S.J.) PER ACI 318 AND ACI 350 SPECIFICATIONS. SEE TYPICAL SLAB-ON-GRADE DETAILS ON SHEET S200 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2)-#4 x 3'-0" LONG BARS (DIAGONALLY) AT RE-ENTRANT CORNERS WITHOUT ANY CONTROL JOINTS. BARS SHALL BE PLACED 4" FROM CORNER AND AT MID-HEIGHT OF SLAB. PROVIDE (2)-#4 x 3'-0" LONG CENTERED AT LOCATIONS WHERE DISCONTINUED JOINTS CANNOT BE AVOIDED. THICKENED SLAB REINFORCING MEETS THIS REQUIREMENT. COORDINATE CONSTRUCTION AND SAWED JOINT LOCATIONS WITH FLOOR FINISHES.
4. SEE 'TYPICAL EXTERIOR DOOR REINFORCING DETAIL' ON SHEET S200 FOR REQUIRED INFORMATION AT DOOR.
5. COORDINATE DRAIN LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
6. 4" THICK ELEVATED HOUSEKEEPING PAD BELOW SERVE LINES. SEE TYPICAL DETAIL ON SHEET S301 FOR ADDITIONAL INFORMATION. COORDINATE PAD LOCATION WITH ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
7. COORDINATE SIZE AND LOCATION OF TRENCH DRAIN WITH ARCHITECTURAL AND PLUMBING DRAWINGS. SEE TRENCH DRAIN DETAIL ON SHEET A101 FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED SLOPE OF CONCRETE SLAB AROUND TRENCH DRAIN.
8. 5" THICK ELEVATED HOUSEKEEPING PAD CENTERED BELOW WATER HEATER. SEE TYPICAL DETAIL ON SHEET S301 FOR ADDITIONAL INFORMATION. COORDINATE PAD LOCATION WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
9. PROVIDE 4" THICK CONCRETE STOOP REINFORCED WITH #4 SPACED AT 12" ON CENTER OVER 4" POROUS FILL MATERIAL OVER COMPACTED STRUCTURAL FILL. COORDINATE ELEVATION WITH CIVIL DRAWINGS.
10. CONTINUE SHEARWALL SHEATHING INTO INTERIOR OF BUILDING WITHOUT INTERRUPTION.

COLUMN FOOTING SCHEDULE

MARK	DIMENSIONS WIDTH	LENGTH	DEPTH	REINFORCING	REMARKS
CF3.0	3' - 0"	3' - 0"	1' - 0"	(3)-#5 EA. WAY (BOTT.)	
CF4.0	4' - 0"	4' - 0"	1' - 6"	(5)-#5 EA. WAY (T&B)	
CF5.0	5' - 0"	5' - 0"	1' - 6"	(6)-#5 EA. WAY (T&B)	
CF8x3	3' - 0"	8' - 0"	1' - 0"	(8)-#5 SHORT WAY (BOTT.) (4)-#5 LONG WAY (BOTT.)	

WALL FOOTING SCHEDULE

MARK	DIMENSIONS WIDTH	DEPTH	REINFORCING CONTINUOUS	TRANSVERSE	NOTES
WF2.0	2' - 0"	1' - 0"	(3)-#5 CONT. (BOTT.)	#4 @ 48" O/C (BOTT.)	
WF3.0	3' - 0"	1' - 0"	(3)-#5 CONT. (BOTT.)	#4 @ 48" O/C (BOTT.)	

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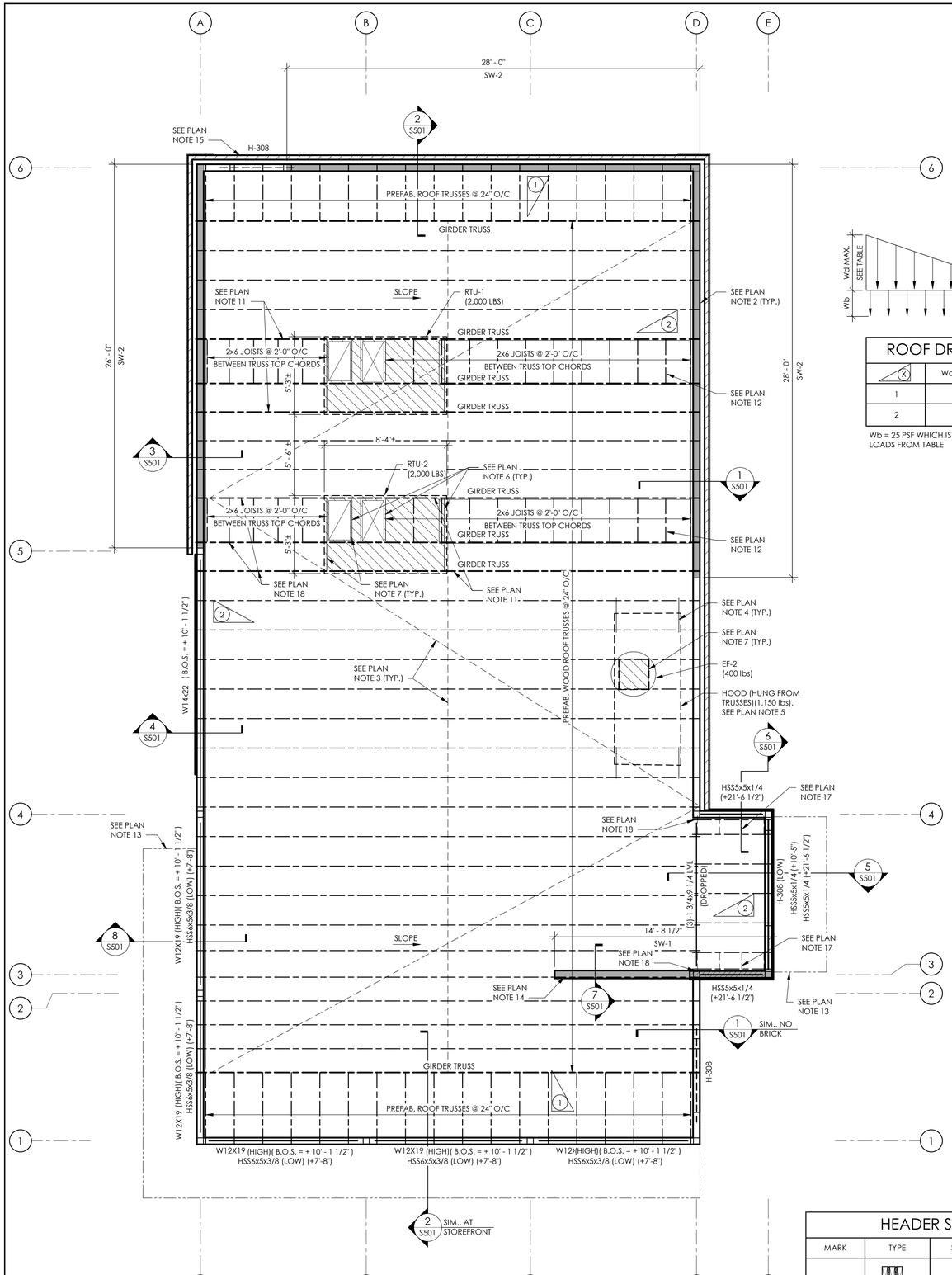
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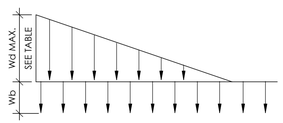
Project No.
CMG4909

Contents:
FOUNDATION PLAN

S100

23-170





ROOF DRIFT LOADS

X	Wd (PSF)	L (FT.)
1	35	10
2	27	7

Wb = 25 PSF WHICH IS IN ADDITION TO DRIFT LOADS FROM TABLE

HEADER SCHEDULE

MARK	TYPE	SIZE	REMARKS
H-308		(3)-2x8	PROVIDE (2)-1/2" PLYWOOD GUSSETS

ROOF FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING - GENERAL NOTES:

1. TYPICAL TRUSS BEARING ELEVATION = +11'-10" UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AT TOP OF PLATE . SEE CORRESPONDING SECTIONS AND DETAILS FOR DIMENSIONS TO TRUSS OR RAFTER WORK POINTS. NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.
2. CONTRACTOR SHALL COORDINATE ALL OPENINGS IN THE EXTERIOR WALLS AS WELL AS INTERIOR BEARING WALLS WITH THE ARCHITECTURAL DRAWINGS. PROVIDE HEADERS AS SHOWN ON PLAN THUS LABELED (H-X). SEE HEADER SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND SIZES. PROVIDE A MINIMUM OF (1)-JACK AND (2)-KING STUDS AT HEADER/BEAM BEARING LOCATIONS, UNLESS OTHERWISE NOTED.
3. ROOF TRUSSES SHOWN ON THIS PLAN SHALL NOT BE USED FOR TRUSS PLACEMENT. CONTRACTOR SHALL FOLLOW APPROVED TRUSS SHOP DRAWINGS FOR TRUSS PLACEMENT. MANUFACTURER SHALL NOT INCREASE TRUSS SPACING BEYOND 2'-0" ON CENTER UNLESS OTHERWISE NOTED ON PLAN. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS OF ROOF FRAMING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALTERATIONS TO LAYOUT ORIENTATION MAY CHANGE LOAD PATH AND MUST BE FLAGGED AS DEVIATIONS. THIS MAY BE SUBJECT TO ADDITIONAL ENGINEERING CHARGES AND CHANGES TO LOWER FRAMING AND FOUNDATIONS.
4. ROOF FRAMING IS A COMBINATION OF PRE-FABRICATED TRUSS FRAMING, ENGINEERED AND CONVENTIONAL LUMBER. CONTRACTOR SHALL PROVIDE STRUCTURAL FRAMING AS SPECIFIED OR APPROVED EQUAL BY STRUCTURAL ENGINEER OF RECORD.
5. CONTRACTOR SHALL PROVIDE BLOCKING BETWEEN TRUSSES AT ALL BEARING WALLS PER 'TYPICAL BLOCKING DETAIL' ON SHEET S400, UNLESS OTHERWISE NOTED AND VENT HOLES AS REQUIRED BY THE ARCHITECT. CONTRACTOR SHALL INSTALL BLOCKING AT SHEAR WALLS, BEARING WALLS, TRUSS EACH END AND ADDITIONAL BLOCKING BETWEEN TRUSSES AS REQUIRED BY THE MANUFACTURER.
6. CONTRACTOR SHALL PROVIDE EXTERIOR GRADE SHEATHING FOR ROOF SHEATHING. SHEATHING SHEETS SHALL BE IN RUNNING BOND PATTERN AND SHALL BE NAILED PER SHEET S001, UNLESS OTHERWISE NOTED. PROVIDE SHEATHING CLIPS BETWEEN EDGES BETWEEN TRUSSES. SEE SHEET S001 FOR ADDITIONAL INFORMATION.
7. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
8. SHEAR WALLS ARE DENOTED THUS (SW-X) ON PLAN AND ARE BEARING WALLS TIGHT TO TRUSS BEARING ELEVATION. PROVIDE TRUSSES ABOVE SHEAR WALLS RATED FOR SHEAR TRANSFER, SEE TYPICAL DETAIL. SHEAR WALL HOLDOWNS ARE DENOTED IN SCHEDULE. SEE SHEAR WALL SCHEDULE AND SHEAR WALL DETAILS ON SHEETS S402 FOR ADDITIONAL INFORMATION.
9. PROVIDE END WALL TRUSSES / CRIPPLE FRAMING / BLOCKING PANELS TO SUPPORT WALLS ABOVE AND PROVIDE STABILITY FOR ROOF TRUSS ENDS. LOCATE CRIPPLE STUDS BELOW STUDS AND JAMBS ABOVE.
10. PROVIDE KING STUDS FULL-HEIGHT OF BUILDING TO MATCH WIDTH OF BEARING ABOVE AT ALL GIRDER TRUSSES.
11. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL ROOF TOP EQUIPMENT SIZE, WEIGHT AND LOCATONS WITH MECHANICAL DRAWINGS. TRUSS MANUFACTURER SHALL COORINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO FABRICATION.

ROOF FRAMING - PLAN NOTES:

1. PRE-FABRICATED METAL-PLATE CONNECTED WOOD ROOF TRUSSES SPACED AT 2'-0" (MAXIMUM) ON CENTER AND SHEATHED WITH PLYWOOD CONSTRUCTION PANELS. BOTTOM CHORD IS HORIZONTAL. TOP CHORD SLOPES TO ACHIEVE 1/4" PER FOOT ROOF SLOPE. HEEL OF TRUSS SHALL BE A MINIMUM OF 2'-0" AT EXTERIOR WALL.
2. 2x6 STUDS ATTACHED TO EACH TRUSS AND EXTEND UP TO TOP OF PARAPET AROUND ROOF PERIMETER. SEE PLAN AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR PARAPET HEIGHTS. PARAPET STUD FRAMING IS AN INTEGRAL PART OF THE ROOF TRUSSES.
3. PROVIDE TRUSS BRACING AS REQUIRED PER TRUSS MANUFACTURER.
4. PROVIDE 4x4 HOOD SUPPORT FRAMING ABOVE BOTTOM CHORD OF TRUSSES. PROVIDE 5/8"Ø THREADED ROD, (TYPICAL 1 EACH END / CORNER). PROVIDE DOUBLE NUT AND WASHER AT EACH SUPPORT ROD LOCATION. COORDINATE NUMBER OF LOCATIONS OF BEAMS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
5. HOOD BELOW HUNG FROM ROOF TRUSSES. ATTACH PER MANUFACTURER SPECIFICATIONS. SEE HOOD MANUFACTURER SPECIFICATIONS FOR NUMBER OF ROD LOCATIONS (4 MINIMUM).
6. CONTRACTOR SHALL LOCATE SUPPLY AND RETURN DUCT PENETRATIONS AWAY FROM TRUSSES AND BRIDGING TO REMAIN.
7. PROVIDE (2)-2x4 (LSV) BLOCKING BETWEEN TRUSSES AT PERIMETER OF RTU CURB AND DECK OPENINGS (TYPICAL).
8. LADDER, SEE ARCHITECTURAL DRAWINGS FOR LOCATION. REDUCE PARAPET HEIGHT PER ARCHITECTURAL DRAWINGS AND PROVIDE DOUBLE STUDS FOR ATTACHMENT (MINIMUM). COORDINATE WITH LADDER MANUFACTURER.
9. PROVIDE 2x4 DIAGONAL BOTTOM CHORD TRUSS BRACING. SEE TYPICAL OVERHANG AND TRUSS MANUFACTURER BRACING DETAIL ON SHEET S400 FOR ADDITIONAL INFORMATION.
10. PROVIDE 2x4 DIAGONAL BRACING BETWEEN TOP AND BOTTOM TRUSS CHORDS. SEE TYPICAL OVERHANG AND TRUSS MANUFACTURER BRACING DETAIL ON SHEET S400 FOR ADDITIONAL INFORMATION.
11. PROVIDE GIRDER TRUSS ON EACH END OF RTU CURB. TRUSS MANUFACTURER SHALL COORDINATE WITH MECHANICAL DRAWINGS.
12. PROVIDE FRAMING BETWEEN TRUSS TOP CHORDS AS SHOWN ON PLAN WHERE TRUSS SPACING EXCEEDS 2'-0". COORDINATE TRUSS SPACING WITH MECHANICAL UNIT PROVIDER AND LOCATION WITH MECHANICAL DRAWINGS.
13. PREFINISHED METAL CANOPY BELOW. COORDINATE ATTACHMENT TO HSS6x5 BEAM WITH CANOPY MANUFACTURER. ALIGN HSS6x5 BEAM WITH CENTERLINE OF CANOPY CONNECTION. COORDINATE BEAM ELEVATION WITH ARCHITECTURAL DRAWINGS AND CANOPY MANUFACTURER REQUIREMENTS. CANOPIES AND CANOPY CONNECTIONS TO THE STRUCTURE ARE A DEFERRED SUBMITTAL BY SUPPLIER.
14. DRAG TRUSS SHOULD BE DESIGNED FOR A 14 KIP (STRENGTH LEVEL WIND) DRAG FORCE. FACE OF TRUSS SHALL ALIGN WITH FACE OF SHEARWALL STUDS.
15. PROVIDE L3x3x3/8 (GALVANIZED) LOOSE LINTEL ACROSS DOOR OPENING. PROVIDE A MINIMUM 8" BEARING EACH END.
16. ATTACH TRUSS TOP AND BOTTOM CHORDS WITH SIMPSON SDS25412 SCREWS AT EACH STUD.
17. PROVIDE 2x4 DIAGONAL BRACES FROM 2x6 TOP PLATE TO ROOF TRUSS SPACED AT 18" O/C MAXIMUM. SEE SECTION FOR ADDITIONAL INFORMATION.
18. PROVIDE L6x6x3/8 x 5 1/2" LONG BEAM SEAT WITH 1/4"x6"x6" PLATE EACH SIDE O F BEAM WITH 1/2"ø THRU BOLT AT BEAM ENDS.

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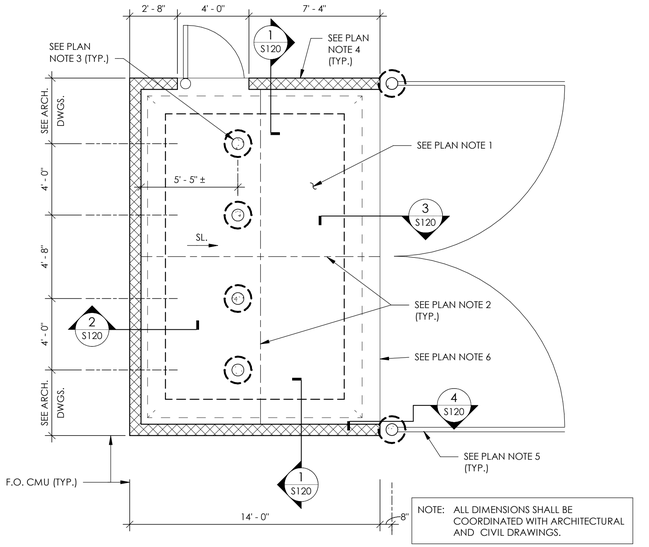
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Checked: JHB

Project No.: CMG4909

Contents: ROOF FRAMING PLAN

S110

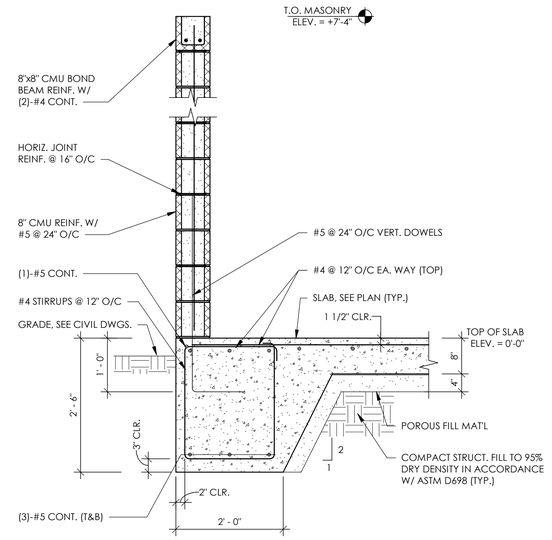
33-170



NOTE: ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND CIVIL DRAWINGS.

FOUNDATION PLAN - DUMPSTER ENCLOSURE

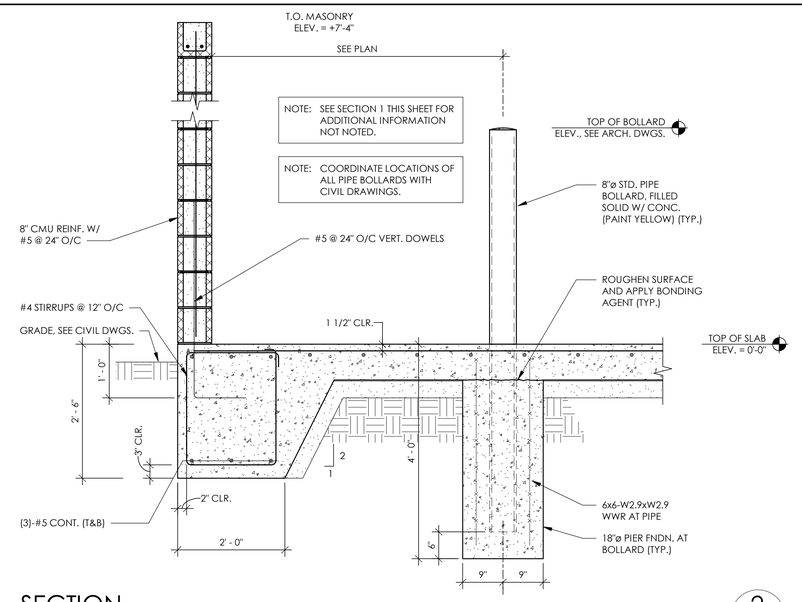
1/4" = 1'-0"



SECTION

3/4" = 1'-0"

1 S120 S120



SECTION

3/4" = 1'-0"

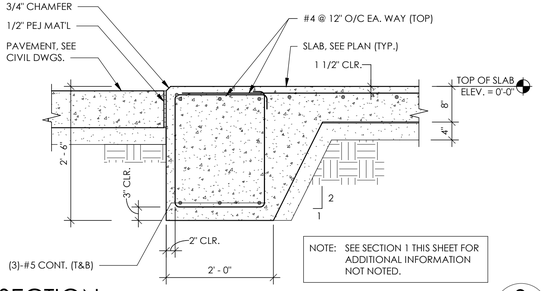
2 S120 S120

FOUNDATION - GENERAL NOTES:

1. COORDINATE PLAN DIMENSIONS WITH ARCHITECTURAL DRAWINGS FOR OPENINGS IN EXTERIOR WALLS NOT NOTED ON PLAN. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. CONCRETE SLAB-ON-GRADE SHALL BE WET-CURED, SEALED AND TROWELED. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES TO EXTERIOR SLABS AS INDICATED.
3. PROVIDE CONSTRUCTION JOINTS (C.J.) AND SAWED JOINTS (S.J.) PER ACI 318 AND ACI 350 SPECIFICATIONS. SEE TYPICAL SLAB-ON-GRADE DETAILS ON THIS SHEET.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE SLABS NOT SHOWN FOR CLARITY. PROVIDE ½" PEJ BETWEEN SLAB AND FOUNDATION WALL, UNLESS OTHERWISE NOTED.

FOUNDATION - PLAN NOTES:

1. TRASH ENCLOSURE SLAB CONSTRUCTION SHALL CONSIST OF A 8" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 BARS SPACED AT 12" ON CENTER EACH WAY (TOP) OVER 4" OF CRUSHED #57 STONE MATERIAL OVER COMPACTED STRUCTURAL FILL. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR SITE LOCATION OF DUMPSTER ENCLOSURE AND TOP OF SLAB ELEVATION, UNLESS OTHERWISE NOTED.
2. PROVIDE SAWED JOINTS (S.J.) PER ACI 318 AND ACI 350 SPECIFICATIONS. SEE TYPICAL SLAB-ON-GRADE DETAILS ON SHEET S-201.
3. 8" DIAMETER STEEL PIPE BOLLARD FILLED WITH CONCRETE, TYPICAL. SEE STRUCTURAL SECTIONS ON THIS SHEET AND ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ADDITIONAL INFORMATION.
4. 8" CMU WALL REINFORCED WITH #5 BARS SPACED AT 24" ON CENTER AND #5 DOWELS SPACED AT 24" ON CENTER, TYPICAL. PROVIDE 8"x8" CMU BOND BEAM CONTINUOUS ALONG TOP OF ENCLOSURE REINFORCED WITH (2)-#4 BARS (TOP OF MASONRY ELEVATION = +7'-4").
5. DUMPSTER ENCLOSURE GATES WITH GALVANIZED STEEL GATE POST FILLED WITH CONCRETE, SEE MANUFACTURER AND ARCHITECTURAL DRAWINGS.
6. 2'-0" WIDE x 2'-6" DEEP CONCRETE TURNDOWN SLAB EDGE FOUNDATION REINFORCED WITH (3)-#5 CONTINUOUS (TOP AND BOTTOM) AND #4 STIRRUPS SPACED AROUND 12" ON CENTER. SEE SECTIONS THIS SHEET FOR ADDITIONAL INFORMATION.

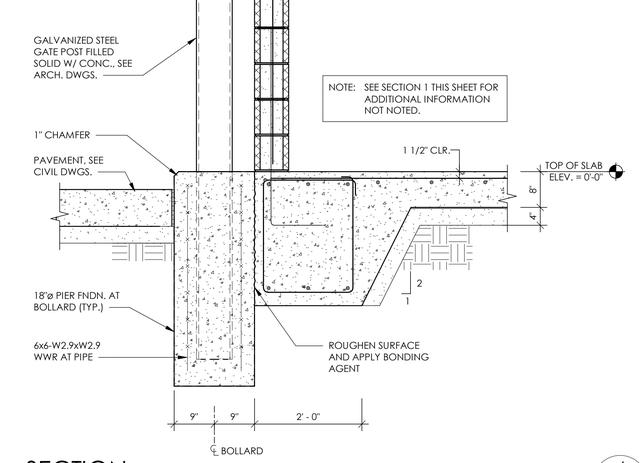


NOTE: SEE SECTION 1 THIS SHEET FOR ADDITIONAL INFORMATION NOT NOTED.

SECTION

3/4" = 1'-0"

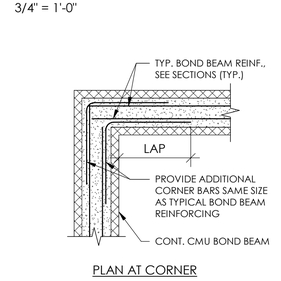
3 S120 S120



SECTION

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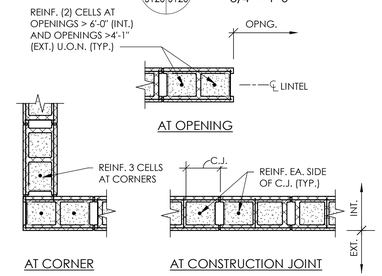
4 S120 S120



PLAN AT CORNER

TYPICAL BOND BEAM REINFORCING DETAILS

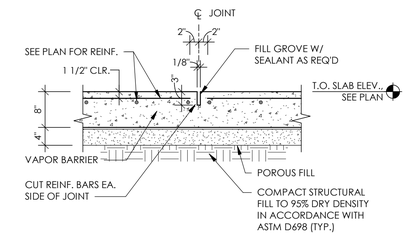
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AT CORNER AT CONSTRUCTION JOINT

TYPICAL MASONRY WALL REINFORCING DETAILS

NOT TO SCALE



TYPICAL SAWED JOINT DETAIL

NOT TO SCALE

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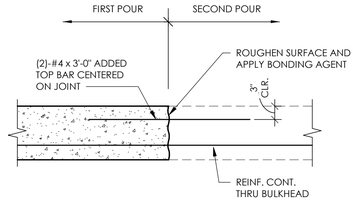
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DUMPSTER ENCLOSURE PLAN

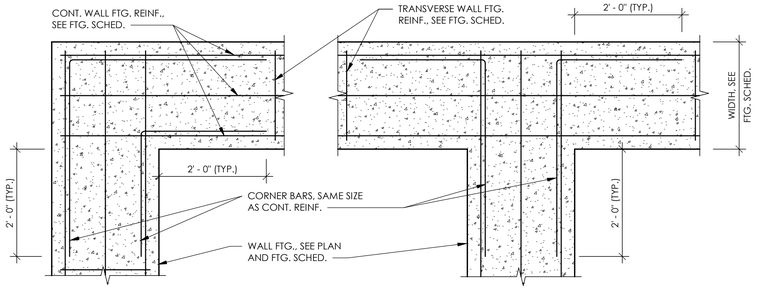
S120

23170



TYPICAL CONTINUOUS WALL FOOTING CONSTRUCTION DETAIL

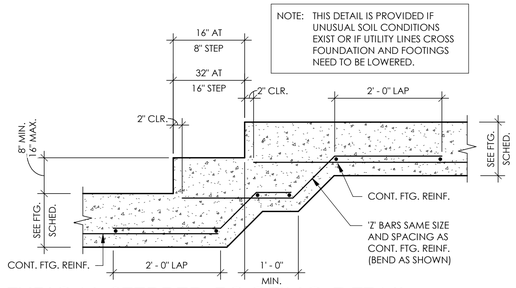
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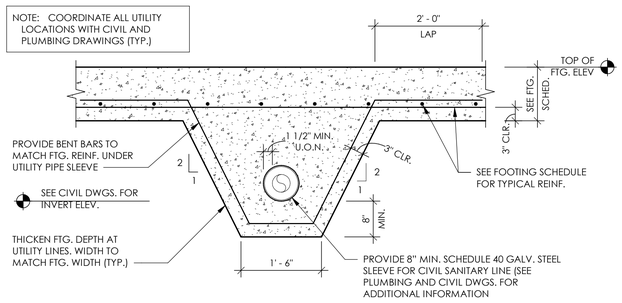
TYPICAL CONTINUOUS WALL FOOTING REINFORCING DETAILS

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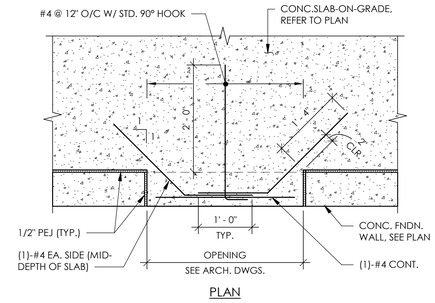
TYPICAL STEPPED FOOTING DETAIL

NOT TO SCALE



TYPICAL THICKENED FOOTING AT UTILITY LINE CROSSING DETAIL

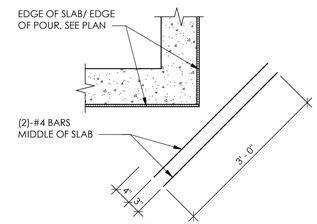
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PLAN

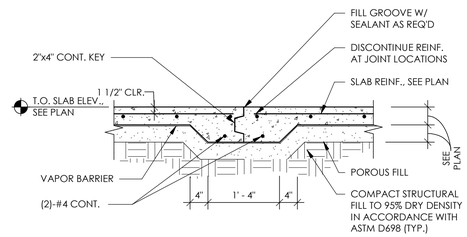
TYPICAL EXTERIOR DOOR REINFORCING DETAIL

NOT TO SCALE

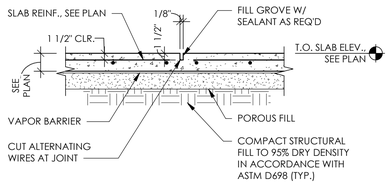


TYPICAL RE-ENTRANT BAR DETAIL

NOT TO SCALE



CONSTRUCTION JOINT (C.J.)

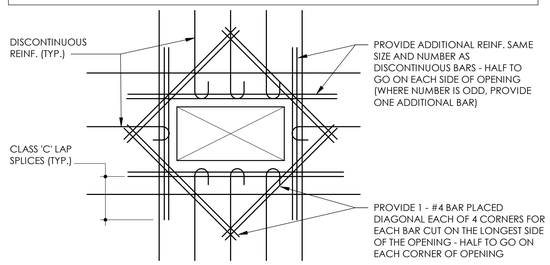


SAWED JOINT (S.J.)

TYPICAL SLAB ON GRADE DETAILS

NOT TO SCALE

NOTE: ALL OPENINGS IN THE STRUCTURAL CONCRETE WALL REQUIRE ADDITIONAL REINFORCING EXCEPT WHERE THE OPENING SIZE OR LOCATION IS SUCH THAT THE REINFORCING STEEL IS NOT INTERRUPTED. CONDUITS, SMALL PIPES AND OTHER SMALL SLEEVES THAT DO NOT REQUIRE PRECISE LOCATION SHALL BE SHIFTED SLIGHTLY TO CLEAR REINFORCING. WHERE RISER DUCTS OR OTHER SLEEVES ARE LARGER THAN THE SPACING BETWEEN BARS AND ARE SUCH THAT THE REINFORCING CANNOT BE SHIFTED TO CLEAR, THEN THE 'CONCRETE WALL OPENING DETAIL' SHALL APPLY.



TYPICAL CONCRETE WALL OPENING DETAIL

NOT TO SCALE

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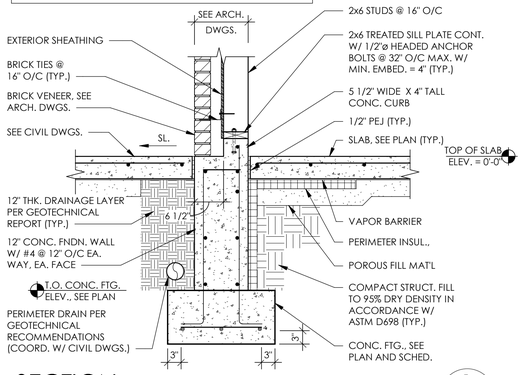
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Contents:
FOUNDATION TYPICAL DETAILS

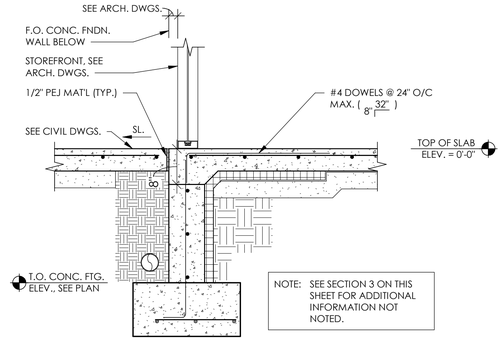
S200

23-170

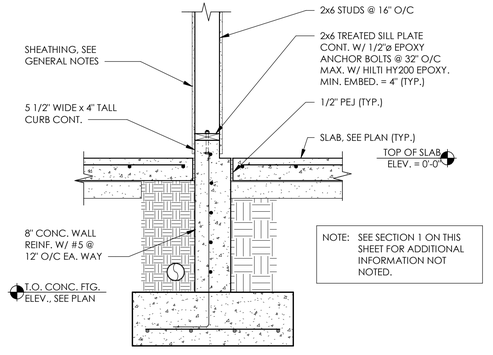
NOTE: COAT EXTERIOR WALL WITH 2 COATS OF SPRAY ON WATERPROOFING. CONTRACTOR SHALL PRIME ALL CONCRETE WALLS AND ALLOW WATERPROOFING TO CURE BETWEEN COATS. CONTRACTOR SHALL SUBMIT WATERPROOFING MATERIAL FOR ARCHITECT APPROVAL PRIOR TO APPLICATIONS.



SECTION 1
3/4" = 1'-0"
S100 S301



SECTION 2
3/4" = 1'-0"
S100 S301

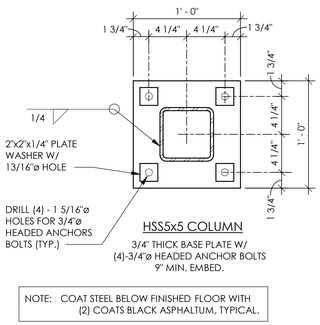


SECTION 3
3/4" = 1'-0"
S100 S301

SECTION 4
3/4" = 1'-0"
S100 S301

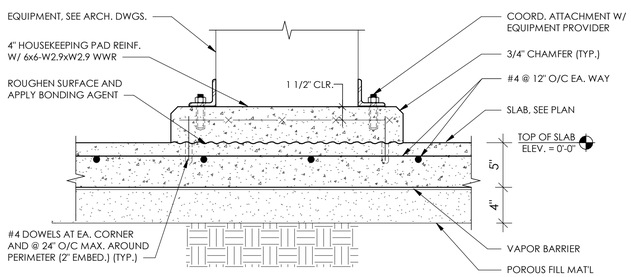
SECTION 5
3/4" = 1'-0"
S100 S301

SECTION 6
3/4" = 1'-0"
S100 S301



NOTE: COAT STEEL BELOW FINISHED FLOOR WITH (2) COATS BLACK ASPHALTUM, TYPICAL.

TYPICAL BASE PLATE DETAILS
NOT TO SCALE



TYPICAL FOUNDATION SECTION THRU MAINTENENCE PAD
NOT TO SCALE

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8968 E. 46th AVE
DENVER CO 80238

Issue Record:
03/21/2024 PERMIT SET

Revisions:
1 08/02/2024 CITY COMMENTS

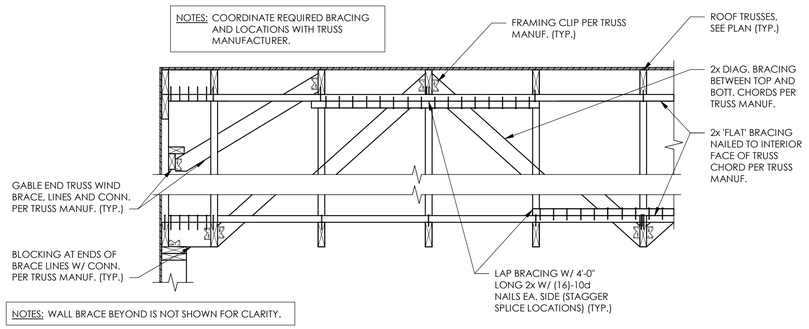
Drawn: WPH
Checked: JHB

Project No.
CMG4909

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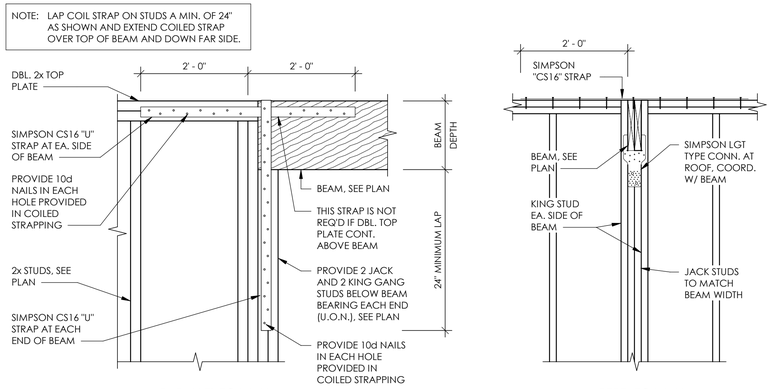
S301

33170



TYPICAL DIAGONAL TRUSS BRACING DETAIL

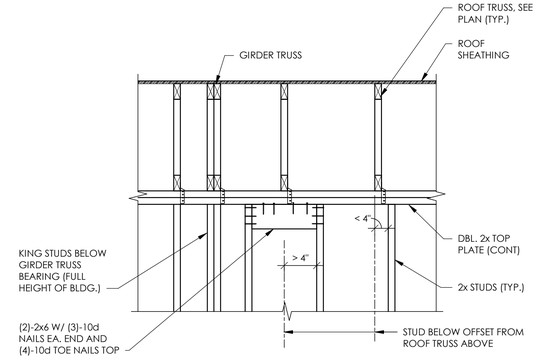
NOT TO SCALE



AT DROPPED BEAM CONDITIONS

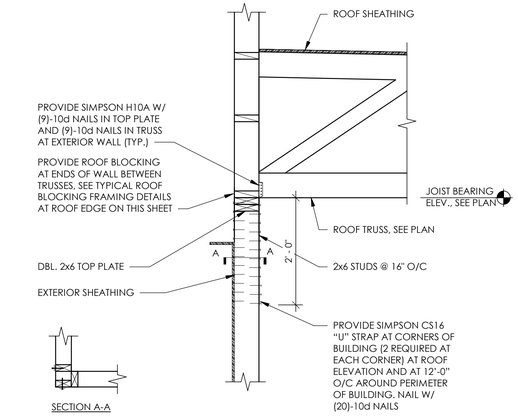
TYPICAL COILED "U" STRAP DETAILS AT ROOF BEAMS

NOT TO SCALE



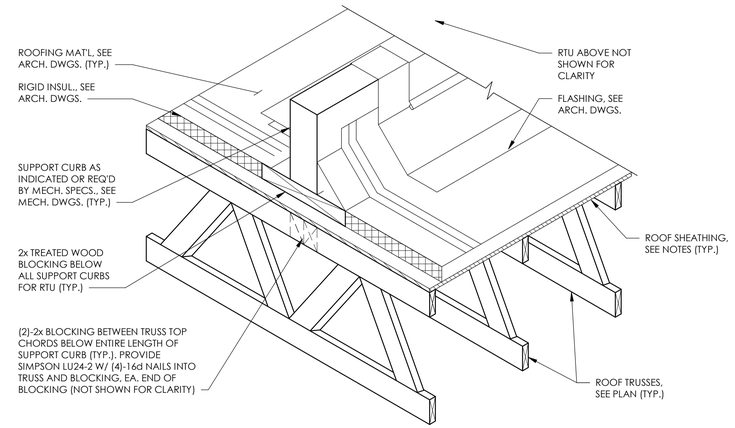
TYPICAL TRUSS BEARING OFFSET FROM STUDS

NOT TO SCALE



TYPICAL CORNER STRAPPING DETAIL AT ROOF

NOT TO SCALE



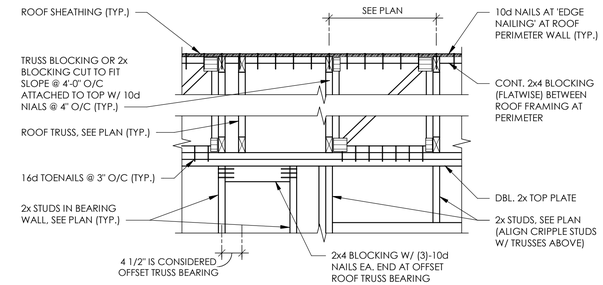
NOTE: WATERPROOF CURB BASE CONNECTIONS, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE: 5/8"ø BOLT CURB IN EACH CORNER OF RTU CURB WITH LAG BOLTS WITH A MINIMUM EMBEDMENT OF 4" OR AS REQUIRED BY MECHANICAL MANUFACTURER.

TYPICAL WOOD BLOCKING DETAIL AT ROOF TOP UNIT SUPPORT CURB

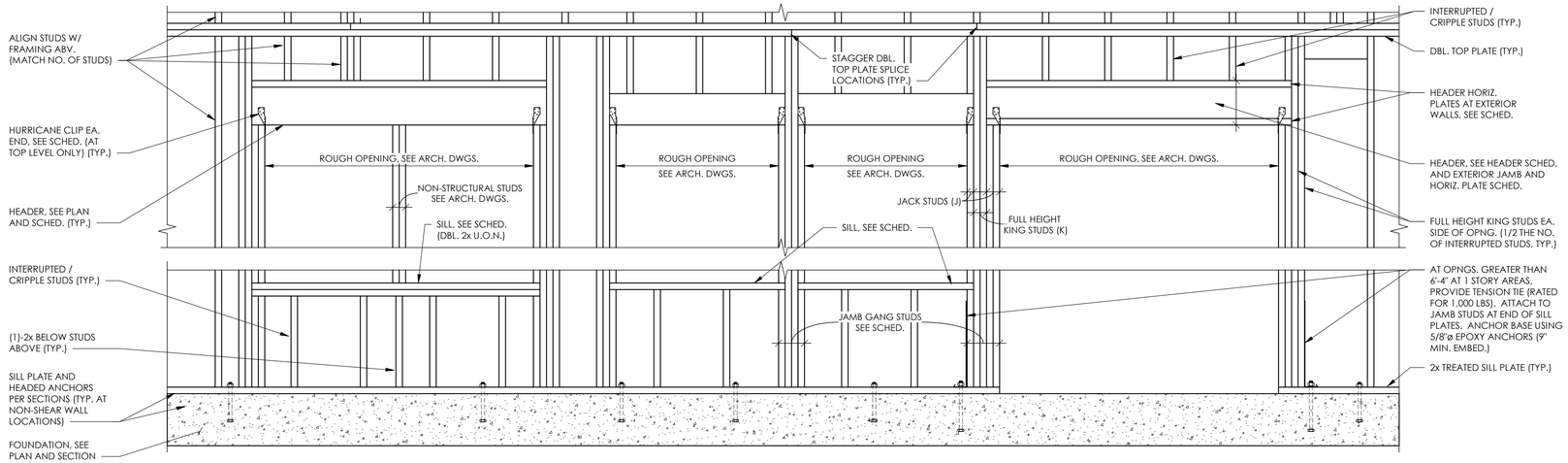
NOT TO SCALE

NOTES:
1. CONTINUOUS BLOCKING OR BLOCKING PANELS PER TRUSS MANUFACTURER SHALL BE PROVIDED AT ALL BEARING WALLS WHERE NEEDED FOR STABILITY.
2. SHEAR WALL BLOCKING PANELS SHALL BE DESIGNED AND CONSTRUCTED BY THE TRUSS MANUFACTURER TO BE CAPABLE OF WITHSTANDING A 325 PLF SHEAR FORCE (1.0W) AT THE ROOF LEVELS, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE PANELS AT CHORD LOCATIONS.
3. BLOCKING SHALL BE EQUALLY SPACED ALONG THE LENGTH OF THE WALLS, NOT TO EXCEED THE SPACING NOTED.



TYPICAL BLOCKING DETAIL

NOT TO SCALE



TYPICAL COILED "U" STRAP DETAILS AT ROOF BEAMS

NOT TO SCALE

EXTERIOR JAMB AND HORIZONTAL PLATE SCHEDULE

ROUGH OPENING SIZE	HORIZ. SILL BELOW OPENING	HORIZ. PLATES AT HEADER	TOP LEVEL UPLIFT CLIP UPLIFT RATING	JAMB JACK AND KING STUDS (J & K)			
				2x6 WALLS		2x4 WALLS	
				AT ENDS	AT MIDDLE	AT ENDS	AT MIDDLE
0'-0" TO 3'-4"	(1)-2x6	NONE	800 LBS	2K & J	J & 2K & J	2K & J	J & 2K & J
3'-5" TO 6'-4"	(1)-2x6	NONE	1,300 LBS	2K & J	J & 3K & J	3K & 2J	J & 3K & J
6'-5" TO 9'-4"	(2)-2x6	(1)-2x TOP	1,900 LBS	3K & J	J & 4K & J	4K & 2J	J & 5K & J
9'-5" TO 12'-4"	(3)-2x6	(1)-2x TOP	2,500 LBS	3K & 2J	2J & 4K & 2J	5K & 2J	2J & 5K & 2J

NOTE: FOR INTERIOR BEARING WALLS (UNLESS OTHERWISE NOTED):
PROVIDE (1)-2x SILL AT ALL OPENINGS
PROVIDE K & J JAMB FOR OPENINGS 3'-0" TO 6'-4" WIDE
PROVIDE K & 2J JAMB FOR OPENINGS 6'-5" TO 10'-0" WIDE.
SEE HEADER SCHEDULE FOR HEADER

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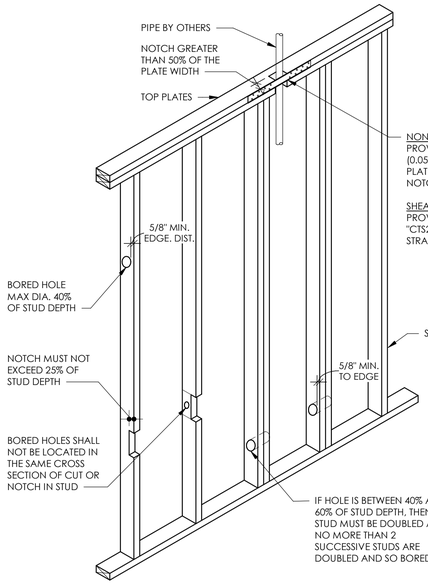
Drawn: WPH
Checked: JHB

Project No.
CMG4909

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TYPICAL FRAMING DETAILS

S400

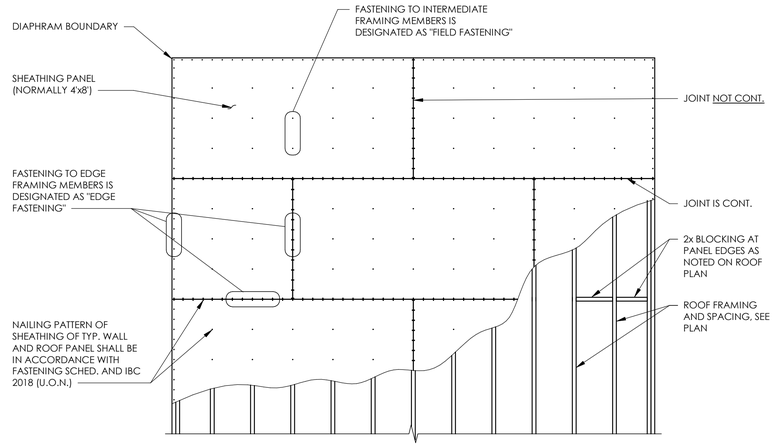
23170



STUD SIZE	STUD DEPTH PERCENTAGE	MAX. HOLE DIA. OR NOTCH DEPTH
2x4	25%	7/8"
	40%	1 3/8"
	60%	2"
2x6	25%	1 3/8"
	40%	2 1/8"
	60%	3 1/4"

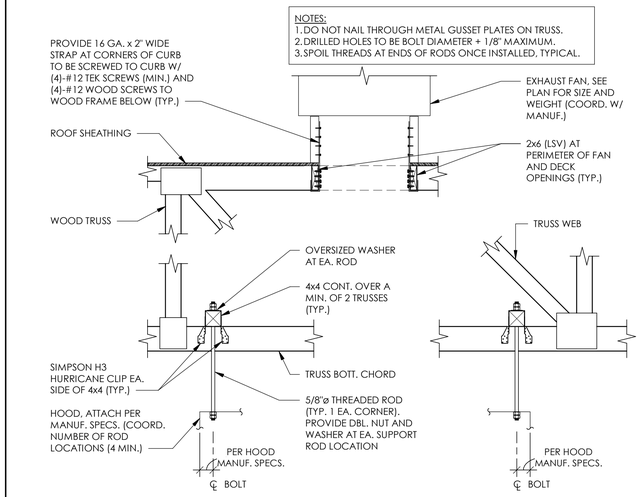
TYPICAL NOTCHING AND BORED HOLE LIMITATIONS FOR EXTERIOR WALLS AND BEARING WALLS DETAIL

NOT TO SCALE



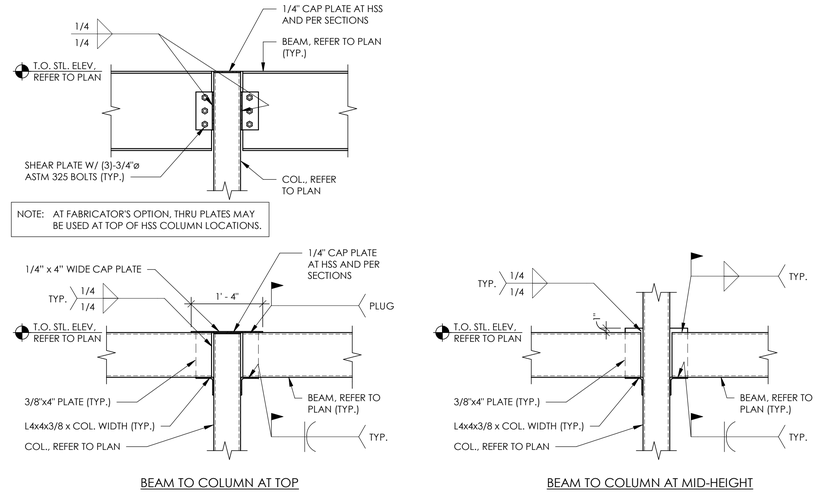
TYPICAL ROOF SHEATHING NAILING PATTERN DETAIL

NOT TO SCALE



TYPICAL HOOD AND EXHAUST FAN SUPPORT DETAIL

NOT TO SCALE



TYPICAL NON-MOMENT CONNECTION DETAILS

NOT TO SCALE

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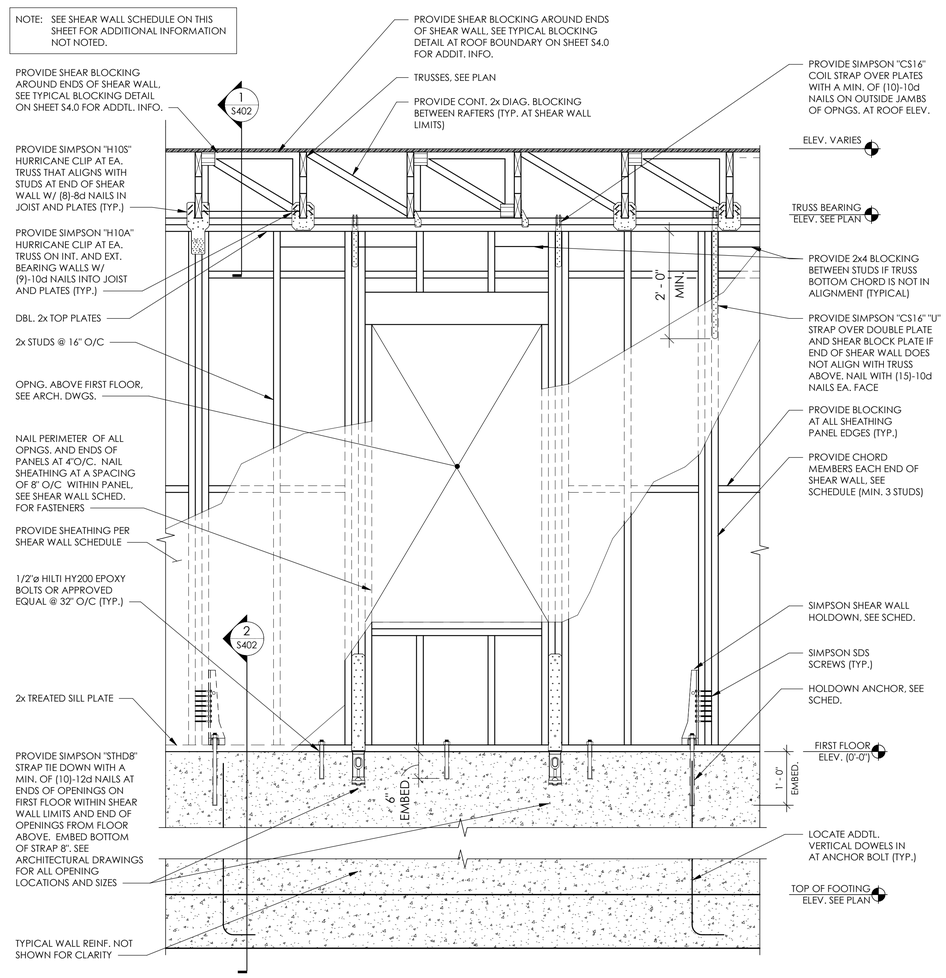
S401

23.170

SHEAR WALL SCHEDULE

MARK	CHORD MEMBER	SHEATHING	NAIL SIZE	NAILING PATTERN	FOUNDATION CHORD HOLDOWN	ROOF TO SHEAR WALL CHORD HOLDOWN
SW-1	(3)-2x6	15/32" A.P.A. RATED SHEATHING ON EXTERIOR FACE OF STUDS	10d NAILS 2 1/2" x 0.134"ø (GALVANIZED)	4" O/C EDGE NAILING AND 12" O/C FIELD NAILING	SIMPSON HDU14-SDS 2.5 W/ 1"ø ANCHOR BOLT AND (36) 1/4"ø x2 1/2" LONG SDS SCREWS IN STUDS. MIN. EMBED. = 12"	(1) SIMPSON "H10S" CLIP AT ALIGNED ROOF TRUSS W/ MIN. (8)-8d NAILS. SIMPSON "H10A" AND (1) "CS16" STRAP AT NON-ALIGNED ROOF TRUSSES W/ MIN. 24" DOWN EACH SIDE OF STUD WALL (INT. AND EXT. FACE)
SW-2	(3)-2x6	15/32" A.P.A. RATED SHEATHING ON EXTERIOR FACE OF STUDS (CONTINUE SHEATHING FOR FULL LENGTH OF WALL)	8d NAILS 2 1/2" x 0.134"ø	6" O/C EDGE NAILING AND 12" O/C FIELD NAILING	SIMPSON HDU5-SDS 2.5 W/ .5/8"ø ANCHOR BOLT AND (14) 1/4"ø x2 1/2" LONG SDS SCREWS IN STUDS. MIN. EMBED. = 12"	(1) SIMPSON "H10S" CLIP AT ALIGNED ROOF TRUSS W/ MIN. (8)-8d NAILS. SIMPSON "H10A" AND (1) "CS16" STRAP AT NON-ALIGNED ROOF TRUSSES W/ MIN. 24" DOWN EACH SIDE OF STUD WALL (INT. AND EXT. FACE)

NOTE: SEE SHEAR WALL SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION NOT NOTED.

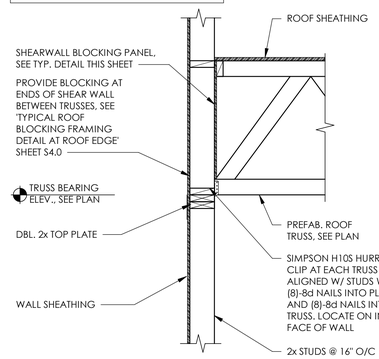


NOTE: SEE PLAN FOR SHEAR WALL LOCATIONS AND LENGTHS. SHEAR WALLS ARE DENOTED THUS (SW-"X")

TYPICAL SHEAR WALL ELEVATION (SW-1 AND SW-2)

NOT TO SCALE

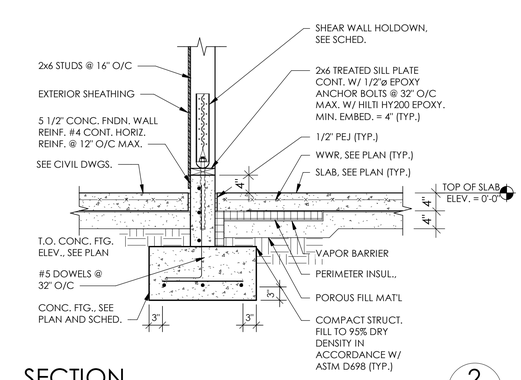
NOTE: SIMPSON H10A HURRICANE CLIP AT EACH TRUSS NOT ALIGNED WITH STUDS W/ (9)-8d NAILS INTO PLATES AND TRUSS.



SECTION 1

3/4" = 1'-0"

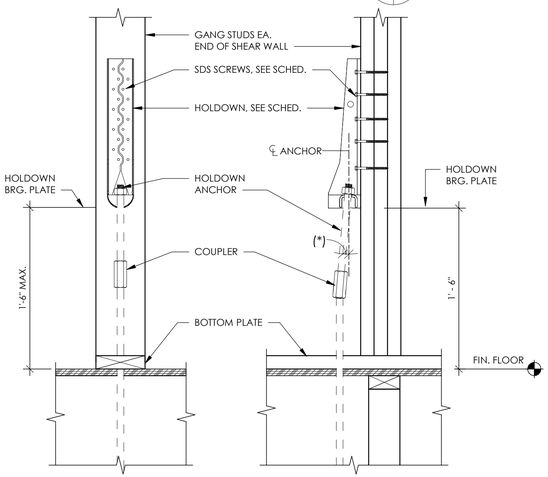
S402 S402



SECTION 2

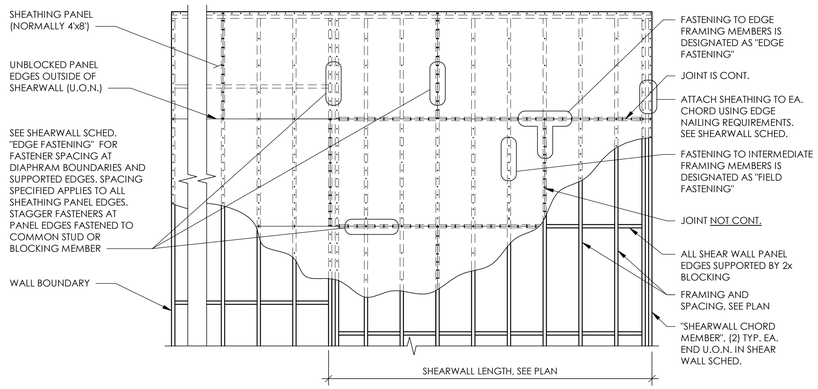
3/4" = 1'-0"

S402 S402



TYPICAL HOLDOWN RAISED OFF BOTTOM PLATE DETAIL

NOT TO SCALE



TYPICAL SHEARWALL / WALL ELEVATION SHEATHING NAILING PATTERN DETAIL

NOT TO SCALE

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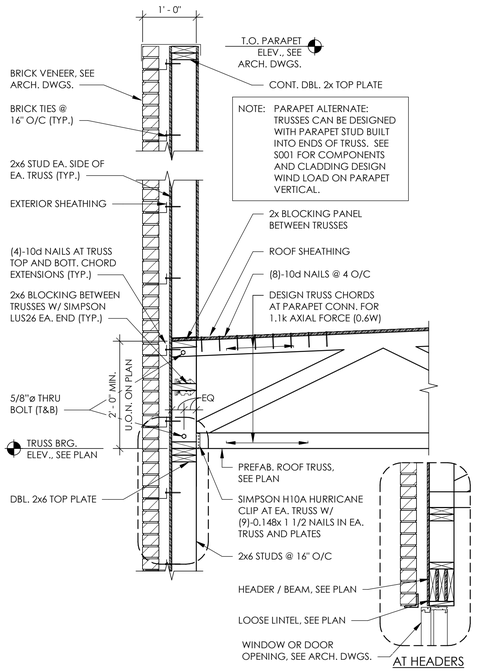
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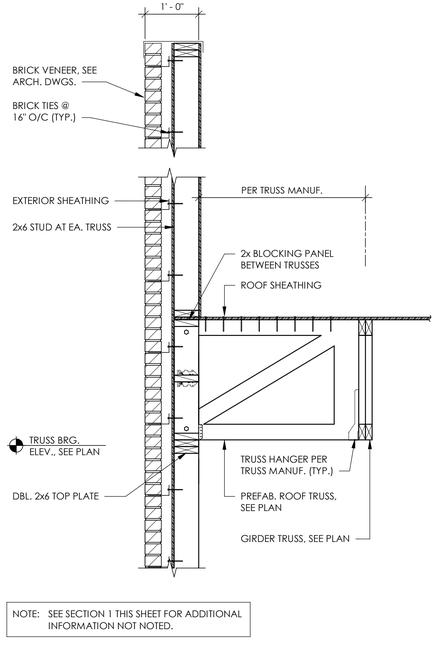
SHEARWALL ELEV., SCHED. AND DETAILS

S402

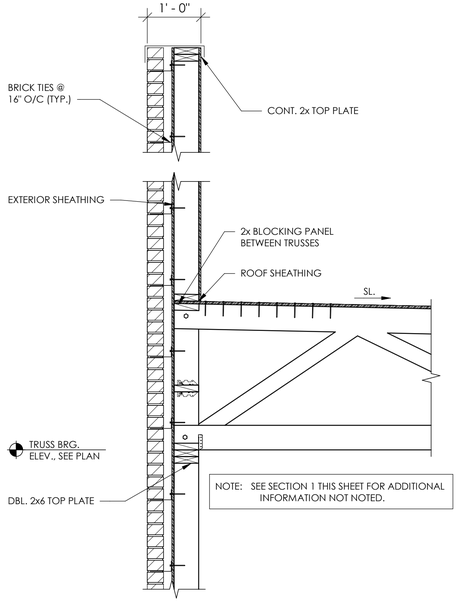
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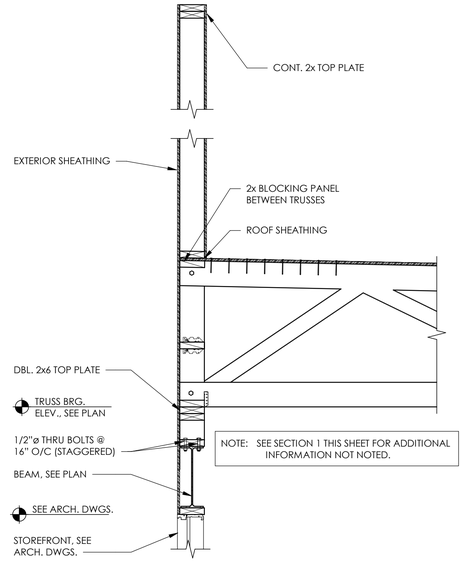
SECTION 1 / S110 S501
3/4" = 1'-0"



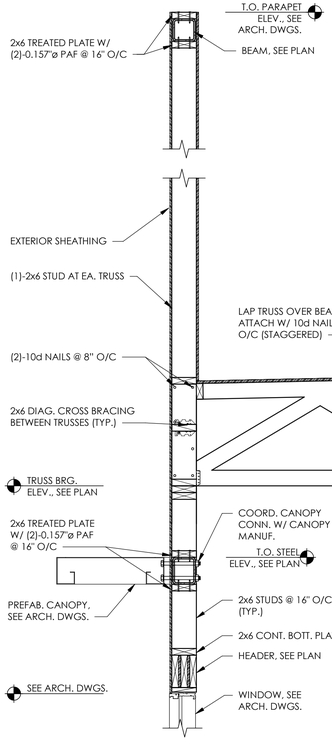
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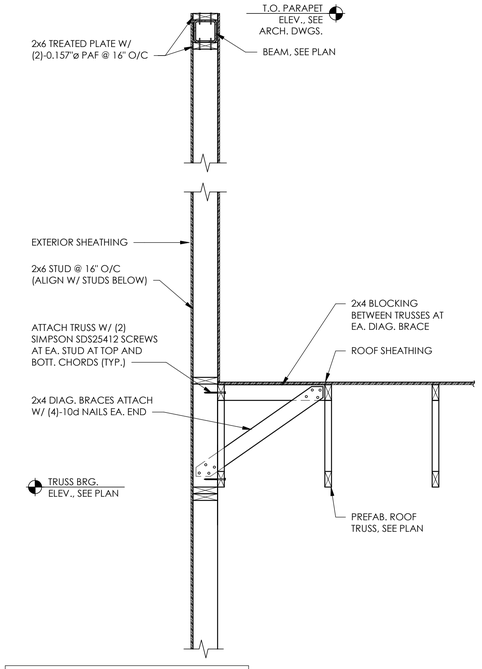
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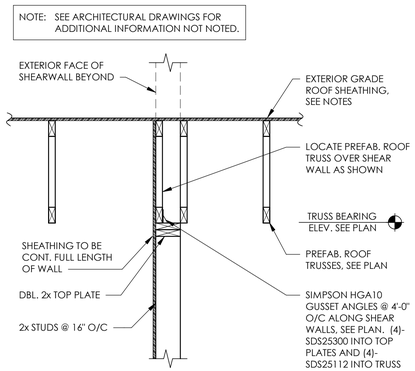
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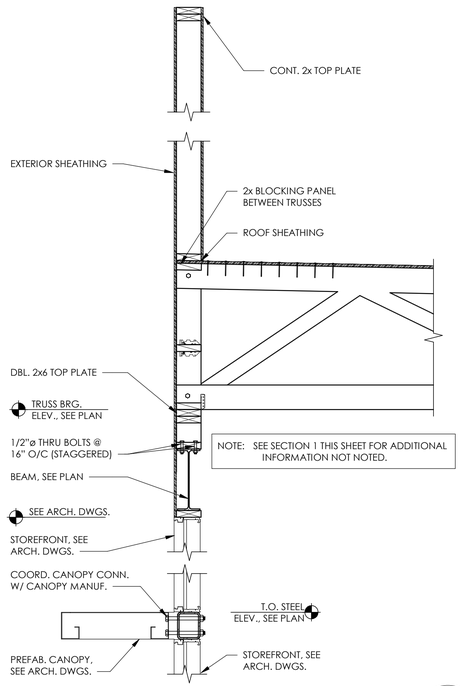
SECTION 5 / S110 S501
3/4" = 1'-0"



SECTION 6 / S110 S501
3/4" = 1'-0"



SECTION 7 / S110 S501
3/4" = 1'-0"



SECTION 8 / S110 S501
3/4" = 1'-0"

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Contents:
FRAMING SECTIONS

S501

23-170

COMMISIONING PLAN - 2022 DENVER ENERGY CODE

THE FOLLOWING SYSTEMS SHALL BE COMMISSIONED BY A COMMISINING AGENT HIRED BY MECHANICAL CONTRACTOR TO THE STANDARDS STATED BELOW AND PER IECC 2018:

- RTU-1
- RTU-2
- EF-1
- EF-2
- CU-1
- CU-2
- CU-3

1. "SYSTEM ADJUSTING AND BALANCING". HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS. AIR FLOW RATE SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE PRODUCT SPECIFICATIONS. TEST AND BALANCE ACTIVITIES SHALL INCLUDE AIR SYSTEM BALANCING.

   1.1 "AIR SYSTEMS BALANCING". EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE. DISCHARGE DAMPERS ARE PROHIBITED ON CONSTANT VOLUME FANS AND VARIABLE VOLUME FANS WITH MOTORS 10 HP (18.6 KW) AND LARGER. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES, THEN, FOR FANS WITH SYSTEM POWER OF GREATER THAN 1 HP (0.74 KW), FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.

2. "FUNCTIONAL PERFORMANCE TESTING". SHALL BE CONDUCTED.

   2.1 "EQUIPMENT". EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED. TESTING SHALL INCLUDE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD AND THE FOLLOWING EMERGENCY CONDITIONS:

   A. ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION;
   B. REDUNDANT OR AUTOMATIC BACK-UP MODE;
   C. PERFORMANCE OF ALARMS; AND
   D. MODE OF OPERATION UPON A LOSS OF POWER AND RESTORATION OF POWER.

   2.2 "CONTROLS". HVAC CONTROL SYSTEMS SHALL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

   2.3 "ECONOMIZERS". AIR ECONOMIZERS SHALL UNDERGO A FUNCTIONAL TEST TO DETERMINE THAT THEY OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3. "PRELIMINARY COMMISSIONING REPORT". A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT" AND SHALL IDENTIFY:

   A. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
   B. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS.
   C. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.

   3.1 "ACCEPTANCE OF REPORT". BUILDINGS, OR PORTIONS THEREOF, SHALL NOT PASS THE FINAL MECHANICAL INSPECTION UNTIL SUCH TIME AS THE CODE OFFICIAL HAS RECEIVED A LETTER OF TRANSMITTAL FROM THE BUILDING OWNER ACKNOWLEDGING THAT THE BUILDING OWNER HAS RECEIVED THE PRELIMINARY COMMISSIONING REPORT.

   3.2 "COPY OF REPORT". THE CODE OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A COPY OF THE PRELIMINARY COMMISSIONING REPORT BE MADE AVAILABLE FOR REVIEW BY THE CODE OFFICIAL.

4. "DOCUMENTATION REQUIREMENTS". THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

   4.1 "DRAWINGS". CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT.
   4.2 "MANUALS". AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE ALL OF THE FOLLOWING:

   A. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   B. MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   C. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
   D. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
   E. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

   4.3 "SYSTEM BALANCING REPORT". A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASUREMENTS COMPLETED IN ACCORDANCE WITH DENVER ENERGY CODE.
   4.4 "FINAL COMMISSIONING REPORT". A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS "FINAL COMMISSIONING".

REPORT SHALL BE DELIVERED TO THE BUILDING OWNER AND SHALL INCLUDE:

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ASHRAE 15.
- C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
- D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS
- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
  1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
  2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
  3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
  4. Condenser Fans: Direct drive propeller.
  5. Refrigerant Coils: Aluminum fins and copper coil.
  6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
  7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
  8. Economizer controls (Comparative Enthalpy, 100% capacity).
  9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
  10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
  11. Roof curb.
  12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
  13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION
- A. Install units level and plumb and firmly anchored.
- B. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
- C. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data for fire and smoke dampers.
- B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
- C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
- D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
- E. Comply with UL 181 and UL 181A for ducts and closures.
- F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS
- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
  1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
  2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
- B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
  1. Adhesive: ASTM C 916, Type I.
  2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
- D. Joint and Seam Tape: Comply with UL 181A.
- E. Joint and Seam Sealant: Comply with UL 181A.
- F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES
- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION
- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- C. Avoid passing through electrical equipment spaces and enclosures.
- D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
- G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- I. Install fusible links in fire dampers.
- J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING
- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
- B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
- D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS
- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS
- A. All air terminal devices:
  1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
  2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
  3. Material: As scheduled.
  4. Finish: As scheduled.
  5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION
- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

ENERGY CODE NOTE

1. Heating, ventilating, and air conditioning design loads calculated per Section C403.1.1.
2. Ventilation, either natural or mechanical, provided in accordance with Chapter 4 of the Denver Mechanical Cod per Section C403.2.2.
3. The output capacity of heating and cooling equipment not greater than that of the smallest available equipment size that exceeds the loads calculated in accordance with Section C403.1.1.
4. Each zone provided with thermostatic setback controls that are controlled by programmable control system per C403.4.2.
5. Ducts, plenums, piping and other elements that are part of an HVAC system shall be constructed and insulated in accordance with Sections C403.12.1 through C403.12.3.1. of the Denver Mechanical Code.

HVAC GENERAL NOTES

A GENERAL NOTES APPLY TO HVAC SHEETS.

B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.

C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.

K THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.

M PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GYP	GYPSUM BOARD
NTS	NOT TO SCALE
O/H	OVERHEAD
OBD	OPPOSED BLADE DAMPER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
W/	WITH
WIC	WALK-IN COOLER
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN GRILLE
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION (W/H)
- DUCT-MOUNTED SMOKE DETECTOR (S)
- MOTOR-OPERATED DAMPER (M)
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- GRIDPOINT THERMOSTAT (T)
- GRIDPOINT ZONE SENSOR MODULE (S)
- GRIDPOINT SUPPLY PROBE (S)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING (#)
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION (XX-#)
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET (A/V)
- GRILL, REGISTER, OR DIFFUSER TAG: TAG, NECK SIZE, AIRFLOW [CFM] (12"Ø, CD1, 550)

Consultant:

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Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

Contents: HVAC SPECIFICATIONS

M010

REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	DEPARTMENT OF COMMUNITY PLANNING & DEVELOPMENT 201 W. COLFAX AVENUE, DEPT. 205 DENVER, CO 80202 T: (720) 865-2700	BUILDING DEPARTMENT:	DEPARTMENT OF COMMUNITY PLANNING & DEVELOPMENT 201 W. COLFAX AVENUE, DEPT. 205 DENVER, CO 80202 T: (720) 865-2700	HEALTH DEPARTMENT:	DEPARTMENT OF PUBLIC HEALTH & ENVIROMENT 101 W. COLFAX AVENUE, DEPT 800 DENVER, CO 80202 E: DPHEPLANREVIEW@DENVERGOV.ORG T: (720) 913-1311
FIRE DEPARTMENT:	DENVER FIRE PREVENTION DEPARTMENT 745 W. COLFAX AVENUE DENVER, CO 80204 E: DENFPB@DENVERGOV.ORG T: (720) 913-3474	WATER UTILITY:	DENVER WATER 1600 W. 12TH AVENUE DENVER, CO 80204 E: CUSTOMERCARE@DENVERWATER.ORG T: (303) 628-6100	SEWER UTILITY:	WASTEWATER MANAGEMENT DIVISION 201 W. COLFAX AVENUE, DEPT. 203 DENVER, CO 80202 E: WASTEWATERPERMITS@DENVERGOV.ORG T: (720) 865-3060
ELECTRICAL UTILITY:	XCEL ENERGY 3751 FRASER STREET AURORA, CO 80011 T: (800) 628-2121				

PROJECT INFORMATION

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MECHANICAL /PLUMBING ENGINEER:	WCW ENGINEERING 760 CREEL DRIVE WOOD DALE, IL 60191 CONTACT: SUNG KWON E: SUNG.KWON@WCWENGINEERS.COM T: (630) 595 - 8800 EXT. 203 F: (630) 595 - 8818	STRUCTURAL ENGINEER:	BROYLES & ASSOCIATES, PC 508 BAYLOR COURT, SUITE C CHESAPEAKE VA 23320 CONTACT: JOE BEAUCHAMP, PE SE JBEAUCHAMP@BROYLESANDASSOCIATES.COM T: (757) 436-2070	CIVIL ENGINEER:	RIDGETOP ENGINEERING & SURVEY 541 E GARDEN DR, UNIT N WINDSOR CO 80550 CONTACT: MIKE BEACH E: MBEACH@RIDGETOPENG.COM T: (970) 663-4552
ELECTRICAL ENGINEER:	DICKERSON ENGINEERING INC. 3343 N. RIDGE AVENUE ARLINGTON HEIGHTS, IL 60004 CONTACT: SAMEER RAHEJA E: SAMEER.RAHEJA@DEI-PE.COM T: (847) 966 - 0290				

UTILITY COORDINATOR

NOTE to GC:
FOR ALL WATER, SEWER, NATURAL GAS, & ELECTRICITY UTILITIES CONTACT:

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F: (831) 393-2858
DIRECT: (831) 233-6015

SIGN VENDOR

ADCON SIGNS
3725 CANAL DRIVE
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CONTACT: KRISTI MARRIOTT
E: KMARRIOTT@ADCON-SIGNS.COM
T: (970) 484-3637 DIRECT: (970) 472-2152

GRAPHIC SYMBOLS

1 / A101 / 1 (1)	EXTERIOR ELEVATION MARKER	0	COLUMN GRID LABEL
1 / A101 / 1 (2)	INTERIOR ELEVATION MARKER	Room name 101	ROOM NAME & NUMBER
SIM / 1 / A101	SECTION MARKER	1	REVISION NUMBER
SIM / 1 / A101	SECTION / DETAIL	1i	DOOR NUMBER
1 / A101 View Name, View Scale	VIEW LABEL	XX.X	MISCELLANEOUS EQUIPMENT NUMBER
		XX.X	FURNITURE NUMBER
		XX.X	KITCHEN EQUIPMENT NUMBER
		X	WASHROOM ACCESSORIES NUMBER
		W1	WALL TAG
			LEVEL TARGET
			NORTH ARROW
			DIMENSION TARGET
		P1	FINISH TAG

ABBREVIATIONS

℄	CENTER LINE	GALV	GALVANIZED	RD	ROOF DRAIN	TS	TENANT'S SAFE SUPPLIER
@	AT	GC	GENERAL CONTRACTOR	RE	REFER TO	TSS	TENANT'S SMART SAFE SUPPLIER
Ø	DIAMETER OR ROUND	GYP	GYPSUM	RTU	ROOF TOP UNITS	TSV	TENANT'S SIGN VENDOR
AFF	ABOVE FINISH FLOOR	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	SIM	SIMILAR	TUV	TENANT'S UV SUPPLIER
ALUM	ALUMINUM	HS	HOOD SUPPLIER	SPS	SODA POP SUPPLIER	TYP	TYPICAL
ARCH	ARCHITECT(URAL)	HVAC	HEATING AND VENTILATING	SS	SUPPORT SIGNAGE	U.N.O.	UNLESS NOTED OTHERWISE
ASS	ALARM SYSTEM SUPPLIER	ICP	INITIAL COST PROJECTION	STL	STEEL	UPS	UNINTERRUPTED POWER SUPPLY
BD	BOARD	IFP	IN FOR PERMIT	STRUCT	STRUCTURE	VAR	VARIES
BLDG	BUILDING	INT	INTERIOR	T	TENANT	VIF	VERIFY IN FIELD
CLNG	CEILING	KES	KITCHEN EQUIPMENT SUPPLIER	TAB	TENANT'S TEST & BALANCE VENDOR	W/	WITH
CMU	CONCRETE MASONRY UNIT	MAX	MAXIMUM	TBD	TO BE DETERMINED, SEE FIELD REFERENCE MANUAL	WA	WASHROOM ACCESSORIES
CO2	CO2 SUPPLIER	MECH	MECHANICAL	TCC	TENANT'S CABLING CONTRACTOR	WCS	TENANT'S WALK-IN COOLER SUPPLIER
CO2AS	CO2 ALARM SUPPLIER	MFR	MANUFACTURER	TDC	TENANT'S DUCT CLEANER	WHS	WATER HEATER SUPPLIER
CS	CHEMICAL SUPPLIER	MIN	MINIMUM	TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER	WS	TENANT'S WINDOW SHADE SUPPLIER
DIM	DIMENSION(S)	MISC	MISCELLANEOUS	THS	TENANT'S HARDWARE SUPPLIER		
(E)	EXISTING CONSTRUCTION	MSS	MUSIC SYSTEMS SUPPLIER	TLS	TENANT'S LIGHT/LAMP SUPPLIER		
EA	EACH	MTL	METAL	TMB	TENANT'S MENU BOARD SUPPLIER		
EL	ELEVATION (VERTICAL HEIGHT)	(N)	NEW CONSTRUCTION	TMS	TENANT'S MILLWORK SUPPLIER		
ELEC	ELECTRIC(AL)	N.I.C.	NOT IN CONTRACT	TP	TENANT'S PHONE SUPPLIER		
ELEV	ELEVATION	NO	NUMBER	TPS	TENANT PANELBOARD SUPPLIER		
EQ	EQUAL	OC	ON CENTER	TRS	TENANT'S RAILING SUPPLIER		
EXT	EXTERIOR	OSB	ORIENTED STRAND BOARD				
EXT	EXTERIOR	PLUM	PLUMBING				
FC	FOR CONSTRUCTION	POS	POINT OF SALE				
FRP	FIBERGLASS REINFORCED PANEL	PREP	PREPARATION				
FRT	FIRE RETARDANT-TREATED	PVC	POLYVINYL CHLORIDE				
GA	GAUGE	QT	QUARRY TILE				
		R	RADIUS				

STORE NUMBER: 05-5119

RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

SCOPE OF WORK

NEW FREESTANDING BUILDING: POURED CONCRETE FOUNDATION, WD STUD WITH MASONRY CAVITY CONSTRUCTION, WD ROOF TRUSSES WITH FULL INTERIOR TENANT BUILD OUT.

GROUP	TENANT	USE
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	A-2

SEE G001 FOR COMPLETE BUILDING CODE DATA AND INFO

PROJECT NOTES

1. ALL COMMUNICATION FOR THIS PROJECT MUST BE DIRECTED THROUGH THE ARCHITECT OF RECORD [AOR]. DIRECT CONTACT OF CONSULTANTS IS PROHIBITED WITHOUT PRIOR APPROVAL OF AOR.
2. REPORT ANY DISCREPANCANIES BTWN DWGS AND FIELD CONDITIONS TO AOR IN WRITING.
3. ALL MEANS OF EGRESS TO REMAIN IDENTIFIABLE AND OPEN DURING CONSTRUCTION.
4. CONTRACTOR SHALL COMPLY W/SOW AS OUTLINED ON WORK LETTER ON SHEET G003 PRIOR TO BIDDING AND CONSTRUCTION.

ASSOC BLDG PERMITS:

SHELL/LANDLORD DRAWINGS:

CIVIL DRAWINGS:
2023-SDP-0000310

2023-SSPR-0000248

2023-EC-0000206

VICINITY MAP

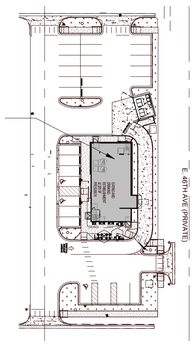
RUNWAY 35N



1 / G000 **VICINITY MAP**
12" = 1'-0"

KEY PLAN

AREA OF WORK



TRUE NORTH / 2 / G000 **KEY SITE PLAN**
1" = 60'-0"

DEFERRED SUBMITTAL S

DEFERRED SUBMITTALS:	FORTHCOMING BY:
FIRE ALARM SYSTEM	GC
PRE-ENGINEERED TRUSSES	GC
PRE-FINISHED CANOPIES	VENDOR / GC
KITCHEN HOOD EXTINGQUISHING SYSTEM	HOOD MANUFACTURER
CARBON DIOXIDE BEVERAGE DISPENSING SYSTEM	HOOD MANUFACTURER

1

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Issue Record:
05/09/2024 PERMIT SET

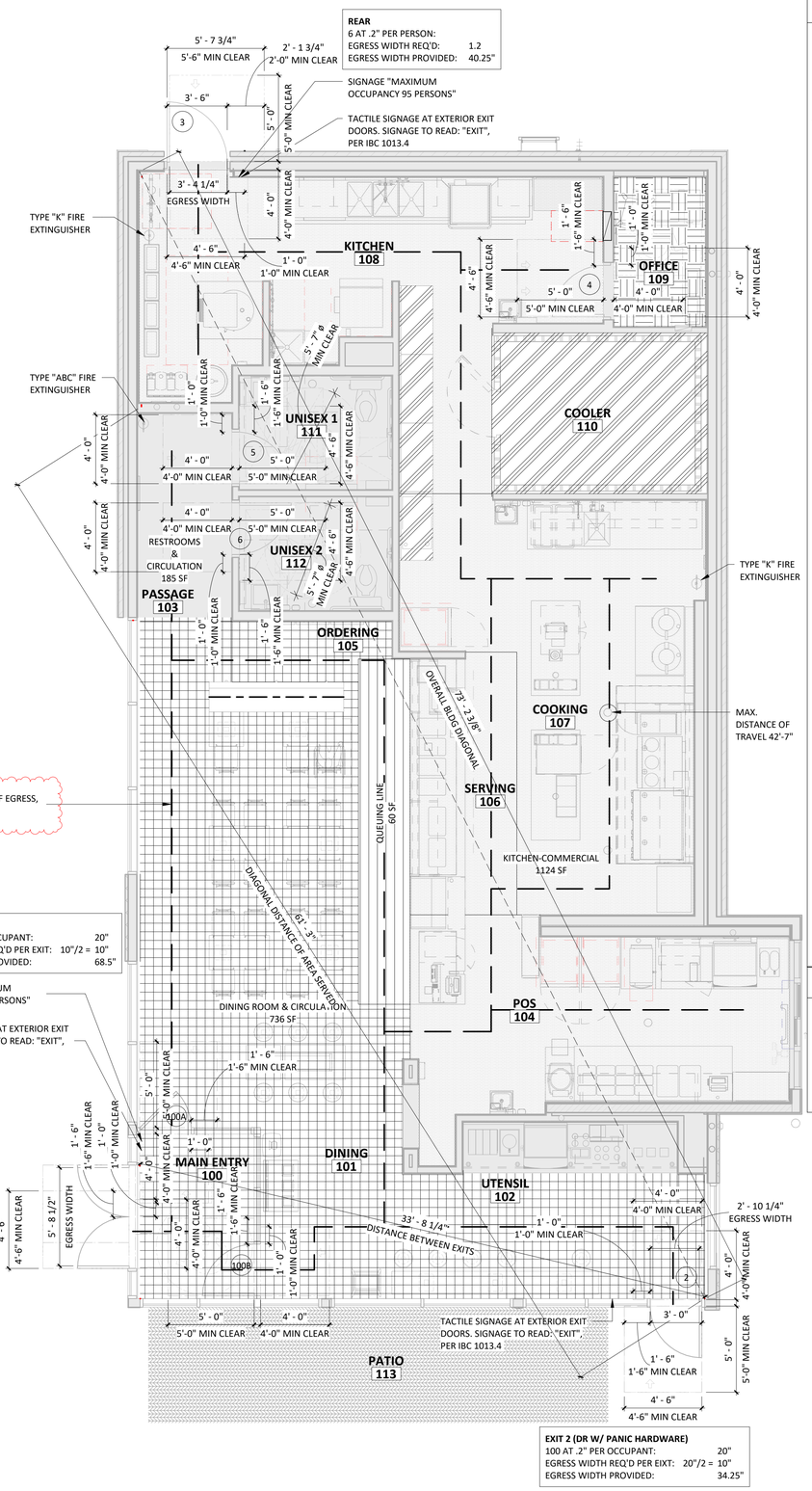
Revisions:
1 08/07/2024 PERMIT COMMENTS

Drawn: EYW
Checked: CL

Project No.
05-5119

Contents:
COVER SHEET

G000



1 G001 **EGRESS & ACCESSIBILITY PLAN**

1/4" = 1'-0"

C408 MAINTENANCE INFO & SYSTEM REQUIREMENTS (See G001.2)

https://codes.iccsafe.org/content/IECC2021P2/chapter-4-ce-commercial-energy-efficiency#IECC2021P2_CE_Ch04_SecC408.1
C408.1 GENERAL
C408.1.1 BLDG OPERATION & MAINTENANCE INFO
C408.2 MECH SYSTEMS & SERVICE WATER HEATING SYSTEMS COMMISSIONING & COMPLET'N REQ
C408.2.1 COMMISSIONING PLAN
A COMMISSIONING PLAN SHALL BE DEVELOPED BY A REG DESIGN PROFESSIONAL *OR* APPROVED AGENCY *AND SHALL INCL THE FOLLOWING ITEMS:*

1. *A NARRATIVE DESCRIPTION OF THE ACTIVITIES THAT WILL BE ACCOMPLISHED DURING EACH PHASE OF COMMISSION, INCLUDING THE PERSONNEL INTENDED TO ACCOMPLISH EACH OF THE ACTIVITIES.*
2. *A LISTING OF THE SPECIFIC EQUIPMENT, APPLIANCES OR SYSTMES TO BE TESTED AND A DESCRIPTION OF THE TESTS TO BE PERFORMED.*
3. *FUNCTIONS TO BE TESTED INCLUDING, BUT NOT LIMITED TO, CALIBRATIONS AND ECONOMMIZERS CONTROLS.*
4. *CONDITIONS UNDER WHICH THE TEST WILL BE PERFORMED. TESTING SHALL AFFIRM WINTER AND SUMMER DESIGN CONDITIOND AND FULL OUTSIDE AIR CONDITIONS.*
5. *MEASURABLE CRITERIA FOR PERFORMANCE.*

C408.2.2 SYSTEMS ADJUSTING & BALANCING, C408.2.2.1 AIR SYSTEMS BALANCING,
C408.2.2.2 HYDRONIC SYSTEMS BALANCING
C408.2.3 FUNCTIONAL PERFORMANCE TESTING
C408.2.3.1 EQUIPMENT
C408.2.3.2 CONTROLS
C408.2.3.3 ECONOMIZERS
C408.2.4 PRELIMINARY COMMISSIONING REPORT
A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REG DESIGN PROFESSIONAL *OR* APPROVED AGENCY *AND PROVIDED TO THE BLDG OWNER OR OWNER'S AUTHORIZED AGENT. THE REPORT SHALL BE ORGANZIED W/MECHANICAL AND SERVICE HOT WATER FINDINGS IN SEPARATE SECTION TO ALLOW INDEPEDENT REVIEW. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT," SHALL INCLUDE THE COMPLETED COMMISSIONING COMPLIANCE CHECKLIST, FIG C408.2.4 AND SHALL IDENTIFY:*

1. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQ'D BY THIS SECTION THAT HAVE BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
2. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMACTIC CONDITIONS.
3. CLIMACTIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.
4. RESULTS OF FUNCTION PERFORMANCE TESTS.
5. FUNCTIONAL PERFORMANCE TEST PROCEDEURES USED DURING COMMISSIONING PROCESS, INCL MEASURABLE CRITERIA FOR TEST ACCEPTANCE.

C408.2.4.1 ACCEPTANCE OF REPORT
BLDG, OR PORTIONS THEREOF, SHALL MOT BE CONSIDERED AS ACCEPTABLE FOR FINAL INSPECTION PURSUANT TO SECTION C105.2.6 UNTIL THE CODE OFFICIAL HAS REC'D THE PRELIM COMMISSIONING REPORT FROM THE BLDG OWNER OR OWNER'S AUTHORIZED AGENT.
C408.2.4.2 COPY OF THE REPORT
C408.2.5 DOCUMENTATION REQUIREMENTS
THE CONSTRUCTION DOCUMENTS SHALL SPECIFIY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BLDG OWNER OR AUTHORIZED AGENT WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
C408.2.5.1 SYSTEM BALANCING REPORT
A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASURMENTS COMPLETED IN ACCORDANCE W/SECTION C408.2.2.
C408.2.5.2 FINAL COMMISSIONG REPORT
C408.3 FUNCTIONAL TESTING OF LIGHTING CONTROLS
C408.3.1 FUNCTIONAL TESTING
C408.3.1.1 OCCUPANT SENSOR CONTROLS
C408.3.1.2 TIME-SWITCH CONTROLS
C408.3.1.3 DAYLIGHT RESPONSIVE CONTROLS
C408.3.2 DOCUMENTATION REQUIREMENTS
THE CDS SHALL SPECIFY THAT THE DOCUMENTS DESRIBED IN THIS SECTION BE PROVIDED TO THE BLDG OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS OF THE RECEIPT OF THE CERTIFICATE OF OCCUPANCY.
C408.3.2.1 DRAWINGS
CD SHALL INCLUDE THE LOCATION AND CATALOGUE NUMBER OF EA PIECE OF EQUIPMENT.
C408.3.2.2 MANUALS
C408.3.2.3 REPORT
A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:

1. RESULTS OF FUNCTIONAL PERFORAMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCL DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

LINE LEGEND - LIFE SAFETY PLANS

- PATH OF TRAVEL LINES
- STRUCTURAL GRID LINES
- DOOR & EQUIP. CLEARANCE LINES
- OVERHEAD EXT. UMBRELLA LINES

BUILDING CODE & ZONING DATA

1. OCCUPANCY GROUP: A-2
   OCCUPANCY SEPARATION REQUIRED: N/A
   OCCUPANCY SEPARATION PROVIDED: N/A
2. TYPE OF CONSTRUCTION: V-B
3. USE GROUP: A-2
   ALLOWABLE AREA: 6,000 SF
   AREA INCREASE W/ SPRINKLERS: N/A
   GROSS AREA: 2,400 SF
   NET AREA (INT SHELL): 2,225 SF
   NET USUABLE AREA: 2,103 SF
   GROSS AREA/OCCUPANT: 2,400/68 = 35 SF
4. ALLOWABLE NO. OF STORIES: 1
   ACTUAL NO. OF STORIES: 1
   ALLOWABLE BUILDING HEIGHT: 40'-0" MAXIMUM HEIGHT
   ACTUAL BUILDING HEIGHT: 20'-8"
5. CALCULATED OCCUPANT LOAD
   95
   POSTED OCCUPANT LOAD
   95
   SEATING:
   INTERIOR: 33 SEATS
   PATIO: 16 SEATS
6. MEANS OF EGRESS REQUIRED: 2 (PER 1006.3.1)
   MEANS OF EGRESS PROVIDED: 2
   i. TOTAL EGRESS WIDTH REQUIRED
   99 MAX INT. OCCUP. X .2" =20"
   ii. TOTAL EGRESS WIDTH PROVIDED
   EXIT 1: 68.5" + EXIT 2: 34.25" =
   CLEAR DOOR EXIT LEAFS = 102.75"
7. FIRE SPRINKLERS: NOT REQ'D PER FIRE CODE CH 11
   1103.5.1 GROUP A-2.
8. PLUMBING FIXTURES

	WATER CLOSETS		LAVORATORIES		URINALS	
	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D
MEN'S:	1	1	1	1	0	0
WOMEN'S:	1	1	1	1	0	0

	DRINKING FOUNTAIN		SERVICE SINK	
	REQ'D	PROV'D	REQ'D	PROV'D
	1 PER 500	*0	1	1

*WATER PROVIDED FREE OF CHARGE

NOTE: RESTROOMS SHOWN AS UNISEX WITH TOTAL FIXTURE COUNTS MET. PER 403.2 SEPARATE FACILITIES NOT REQ'D.

9. LIFE SAFETY SYSTEMS: RE ELEC
   EMERGENCY LIGHTING: INCLUDED
   EXIT SIGNS: INCLUDED
   FIRE ALARM: NOT REQUIRED
   SMOKE DETECTORS: NOT REQUIRED
   SPRINKLER/FLOW TAMPER SWITCH: N/A (SPRINKLER SYSTEM NOT REQ'D)
   CO_2 DETECTION: INCLUDED

CODE AUTHORITIES

BUILDING CODE:	2021 INTERNATIONAL BUILDING CODE
MECHANICAL CODE:	2021 INTERNATIONAL MECHANICAL CODE
PLUMBING CODE:	2021 INTERNATIONAL PLUMBING CODE
ENERGY CODE:	2021 INTERNATIONAL ENERGY CONSERVATION CODE
FUEL GAS CODE:	2021 INTERNATIONAL FUEL GAS CODE
ELECTRICAL CODE:	2023 NATIONAL ELECTRICAL CODE
FIRE CODE:	2021 INTERNATIONAL FIRE CODE
ACCESSIBILITY:	2017 DENVER ACCESSIBILITY CODE, 2010 ADA STD & ICC A117.1-2017

ADDITONAL EGRESS INFORMATION

EGRESS SEPARATION NOTE

OVERALL DISTANCE: 61'-3" AREA SERVED 73'-2" OVERALL BLDG

REQUIRED SEPARATION: 30'-6 1/4" (NON-SPRINKLERED)
(NON-SPRINKLERED & PER 1007.1.1, NOT LESS THAN 1/2 THE LENGTH OF MAX OVERALL DIAGONAL DIMENSION OF THE BLDG AREA TO BE SERVED)

MAX EXIT ACCESS TRAVEL
DISTANCE PER TABLE 1017.2: 200' (NON-SPRINKLERED)

PROVIDED SEPARATION: 33'-8 1/4"

ENERGY CODE INFORMATION

ENERGY CODE COMPLIANCE METHOD: PRESCRIPTIVE PATH, SEE **2022 Denver Energy Code - Commercial Compliance Checklist** ON SHEET G001.1

PER 401.2.1 IECC PRESCRIPTIVE COMPLIANCE REQUIRES COMPLIANCE WITH:
C402 BLDG ENVELOPE REQUIREMENTS
C403 BLDG MECHANICAL SYSTEMS
C404 SERVICE WATER HEATING
C405 ELEC POWER & LIGHTING SYSTEMS
C406 ADDITIONAL EFFICIENCY REQUIREMENTS
C408 MAINTENANCE INFO & SYSTEMS COMMISSIONING (See G001.2)

C402 BLDG ENVELOPE REQUIREMENTS

See G001.2 for ComCheck for Building Envelope

GENERAL NOTES

PER 401.2.1 IECC PRESCRIPTIVE COMPLIANCE REQUIRES COMPLIANCE WITH:
C402 BLDG ENVELOPE REQUIREMENTS
C403 BLDG MECHANICAL SYSTEMS
C404 SERVICE WATER HEATING
C405 ELEC POWER & LIGHTING SYSTEMS
C406 ADDITIONAL EFFICIENCY REQUIREMENTS
C408 MAINTENANCE INFO & SYSTEMS COMMISSIONING (See G001.2)

OCCUPANCY LOAD (PER IFC TABLE 1004.5)

ASSEMBLY AREAS	TOTAL	CALCULATED OCCUPANT LOAD	ACTUAL SEAT COUNT/EMPLOYEES
DINNING (ASSEMBLY W/O FIXED SEATING - UNCONCENTRATED): 15 NET SF PER OCCUPANT	663 SF	45	30
ASSEMBLY W/FIXED SEATING 24 LINEAL INCHES PER OCCUPANT	94"	4	3
STANDING SPACE (ASSEMBLY W/O FIXED SEATING): 5 NET SF PER OCCUPANT	60 SF	12	-
KITCHEN COMMERCIAL: 200 GROSS SF PER OCCUPANT	929 SF	5	7
ACCESSORY/STORAGE: 300 GROSS SF PER OCCUPANT	148 SF	1	-
OFFICE (BUSINESS AREA): 150 GROSS SF PER OCCUPANT	46	1	-
TOTAL INTERIOR OCCUPANTS:		68	40
PATIO (ASSEMBLY W/O FIXED SEATS - UNCONCENTRATED): 15 NET SF PER OCCUPANT	396 SF	27	16
TOTAL EXTERIOR OCCUPANTS:		27	16
TOTAL OCCUPANTS:		95	56
UNOCCUPIED (ACCESSORY AREA IN ASSENBLE AREA): 0 SF PER OCCUPANT	495 SF	-	

ACCESSIBLE SEATING CALCULATIONS

TOTAL SEATING:	30 INT. 16 EXT.	
TOTAL REQUIRED ACCESSIBLE INTERIOR SEATING (5% OF TOTAL)	2	
REQUIRED ACCESSIBLE PATIO SEATING (5% OF TOTAL)	1	

ENERGY CODE INFORMATION

ENERGY CODE COMPLIANCE METHOD: PRESCRIPTIVE PATH, SEE **2022 Denver Energy Code - Commercial Compliance Checklist** ON SHEET G001.1

PER 401.2.1 IECC PRESCRIPTIVE COMPLIANCE REQUIRES COMPLIANCE WITH:
C402 BLDG ENVELOPE REQUIREMENTS
C403 BLDG MECHANICAL SYSTEMS
C404 SERVICE WATER HEATING
C405 ELEC POWER & LIGHTING SYSTEMS
C406 ADDITIONAL EFFICIENCY REQUIREMENTS
C408 MAINTENANCE INFO & SYSTEMS COMMISSIONING (See G001.2)

C402 BLDG ENVELOPE REQUIREMENTS

County: Denver — Climate Zone per [2021 IECC] Table C301.1: 5B

Vestibule per [2021 IECC] C402.5.9: Not Required per exception 4 (Doors that open directly from a space less than 3000 SF in area)

Bldg Envelope Fenestration Max U Factor & SHGC Requirements per [2021 IECC] Table C402.4:
Max U factor: Fixed: .36 Operable .45 Entrance Doors: .63

Adjusted Solar Heat Gain Coefficients

Projection Factor	Fixed		Operable	
	South, East, West	North	South, East, West	North
PF < 0.2	0.30	0.36	0.26	0.31
0.2 < PF <0.5	0.36	0.43	0.32	0.38
PF > 0.5	0.48	0.58	0.42	0.50

PF @ Chipotlane Pick Up Win: PF A:2.27' PF B: 6.64' PF A/PF B = .34
.4 Max SHGC required at Chipotlane Pick Up Win

Opaque Thermal Envelope Assembly Max Requirements per [2021 IECC] Table C402.1.4:
Opaque Swinging Door: U-0.37

R-Values per [2021 IECC] Table C402.1.3:
Roof: R-30 CI
Walls: 3.8R-10 CI
Slab: R-15 for 24" below

1

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Issue Record:
05/09/2024 PERMIT SET

Revisions:
1 08/07/2024 PERMIT COMMENTS

Drawn: JM Checked: JK

Project No.
05-5119

Contents:
PROJECT DATA & LIFE SAFETY PLAN

G001

DENVER ENERGY CODE - COMMERCIAL COMPLIANCE CHECKLIST

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 5/8/2024

		RESPONSE	SUBMITTER NOTES
Indicate if the project scope includes any of the following:	New construction (Y/N):	N	
	Addition (Y/N):	N	
	Change of occupancy or use (Y/N):	N	
	Fuel fired water heater (Y/N):	N	
	Cost of work in the existing occupied space (Y/N):	N	
	Core and shell only (Y/N):	N	
	New parking (Y/N):	Y	New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		1,400 GROSS/ 2,220 NET	
Property type	Is this an all-electric property? (Y/N):	Y	**ALL-ELECTRIC PROPERTY.** A property or a single assessment parcel with an aggregate square footage of 50,000 sf or less, other than a Group R-2, Group R-3, Hotel, for emergency power systems, and standby power systems: 1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for fuel gas or fuel oil or fuel gas utility connection, installed within the building(s) or site ; or 2) Is designed, built, and ready to operate as an all-electric building where the property includes existing fuel gas or fuel oil infrastructure built under a code effective prior to May 1, 2019
		X SERIES SHEETS	

ENERGIZE DENVER				
C101.2	Final 2020 target EUI required by Energize Denver	Enter the final 2030 target EUI required by Energize Denver (A+, 4Yo, 1A, 5B Buildings and building regulations). ERMC applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver. Refer to the Energize Denver compliance document available from the Office of Climate Action, Sustainability and Resilience. Applies to buildings 25,000 sf and larger.	N/A	Enter EUI in Response box. Indicate location of supplemental calculations if applicable See Technical Guidance for Target Adjustments Appendix A 2030 Targets

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.5.1.5	Building Thermal Envelope Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado registered design professional or approved agency and a final commissioning report provided.	Y	EC02 - WEATHER BARRIER, G012, A402 – A409	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & M010	Indicate location of: Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & P010	Indicate location of: Letter with qualifications of the sf the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G001 & G001.2	Indicate location of: Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

05.08.2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	For new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1 Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C406.1 EF / APPENDIX CB - SOLAR ACCESS					
C405.14 CB 103.1 CB 103.2 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low slope roofs (2:12). Solar ready zone to be no less than 40% of roof area and no side shall be less than 5 feet in length. No dimension of the solar ready zone shall be less than 5 feet in length. Skylights and roof mounted equipment shall be located in the solar ready zone.	Y	A100	Indicate location of: - Calculations showing roof area per CAES.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zone on drawings and indicate the roof pitch, number of roof faces, dimensions of each face, and total square footage. - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar-ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system ready area shall not be less than 2 feet by 4 feet or either dimension.	Y	A110, A130	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system ready area
C406.2 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalation	Indicate location of: - Escalator and moving walkway specifications

Version 1.6 Dated March 1, 2024

05.08.2024

2

Planning Tool for CAES.2 2022 Denver Energy Code Additional Energy Efficiency Credit Requirements for New Construction and C502 Additions

Instructions: Enter values in the applicable cells. Read about Tables CAES.2.2 and CAES.2.3 in the Code.

Project Background		
1. Project is mixed-use (Y/N):	Y	3. CAES.2.4 Space Heating is required (Y/N):
2. Project is not exclusively occupied Group R (Y/N):	Y	4. CAES.2.5 Water Heating is required (Y/N):
3. Using ASHRAE 90.1 Model Simulation Guidelines (Y/N):		

Credit Requirements Table CAES.2.2				Use Group for Table CAES.2.2
	Floor Area by Building Type	Denver Credit Requirements		
	sqft	All Electric Prospective	All Electric Buildings	
Multifamily		15	46	Group R
Multifamily Residential		15	46	Group R
Hotel/Motel		15	46	Group R
Office		15	36	Group B
Retail		15	36	Group M
School		15	36	Group E
Warehouse		15	16	Other Occupancies (Group S)
Other	1,400	15	36	Other Occupancies
Total	1,400			
Area Weighted Denver Credit Requirements		15	36	
Credits Required	38			

5. Check Your Area matches in Tables CAN.2.2.5 and CAN.2.2.6: Y
6. Check Your Credits matches in Tables CAES.2.2 and CAES.2.3: Y
7. Summary requirements (versus credits): Meeting Credit Requirements is (if not included Credits are 0):

CAES.7.1 Provide Service Hot Water Credits - Optional

	Floor Area by Building Type	Percent Provided by Building Floor Area
	sqft	(%)
Group R-1: Boarding houses, hotels or motels		
Group R-2: Multifamily, assisted living facilities and nursing homes		
Group R-3		
Total Group R and I	0	0%
Group A-2: Restaurants with full service kitchens or boiler rooms with showers		
Total Group A	0	
Group A-3: Restaurants, banquet halls and buildings containing food preparation areas	1,400	
Group B: Office and Lab uses		
Group E: Health clinic and lab uses		
Total Other Occupancies	1,400	100%
Credit: Provide service water heat of 10% or more of total building energy loads, as shown with an energy analysis described in Section C407		Building with service hot water load of 10% are not included in this tool
1. Building must comply with ENA.2.1 Energy Use Intensity Targets	Y	Buildings that must comply with ENA.2.1 are eligible for half the credits of CAES.7.1

Table CAES.1 Additional energy efficiency credit requirements for Denver

	Group B	Group R and I	Group E	Group M	Other Occupancies	Total Area (sf)
Total Floor Area by Use Group (sf)					1,400	1,400
Check: Too many credits selected for (# of Used):						
Included Credits for the Group	0	0	0	0	50	Total Included Credits
Total Floor Area Weighted Included Credits						0

Section	Included in CONOnsen #22-2021 OR Denver Specific	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Notes	Documentation	Calculation Type	Threshold
CAES.2.2.1: CO ₂ Heating Efficiency Improvement	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	5%
CAES.2.2.2: CO ₂ Heating Efficiency Improvement	CONOnsen #22-2021		2		2		2		2	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	10%
CAES.2.2.3: CO ₂ Heating Efficiency Improvement	CONOnsen #22-2021		3		3		3		3	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	15%
CAES.2.2.4: GHG Cooling Efficiency Improvement	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.2.2.1.CAN.2.2.6	Calculation	Efficiency % diff	10%
CAES.2.2.5: GHG Heating Efficiency Improvement	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.2.2.1.CAN.2.2.6 - Manually enter credits and provide calculation	Calculation	Efficiency % diff	10%
CAES.2.2.6 : GHG Heating Efficiency Improvement	Denver Specific		2		2		2		2	Select only 1 from CAN.2.2.1.CAN.2.2.6 - Manually enter credits and provide calculation	Calculation	Modified Efficiency % diff	>10%
CAES.3: Reduced Light Power	CONOnsen #22-2021 with Denver Specific instructions		2		2		2		2	Select only 1 from CAN.3.CAN.3.1 (15, CAN.3.2 >15%, Denver modifies Building Area Method Table CAN.3.2.D)	Calculation	Efficiency % diff	20%
CAES.3.1: Reduced Lighting power by 15%	CONOnsen #22-2021 with Denver Specific instructions		1		1		1		1	Select only 1 from CAN.3.CAN.3.1 (15, CAN.3.2 >15%, Denver modifies Building Area Method Table CAN.3.2.D)	Calculation	Efficiency % diff	>15%
CAES.3.2: Reduced lighting power by >15%	CONOnsen #22-2021 with Denver Specific instructions		2		2		2		2	Select only 1 from CAN.3.CAN.3.1 (15, CAN.3.2 >15%, Denver modifies Building Area Method Table CAN.3.2.D)	Calculation	Modified Efficiency % diff	>15%
CAES.3.3: Occupancy Sensor Controls	CONOnsen #22-2021		1	NA	1		1		1	Select only 1 from CAN.3.1.CAN.3.3	Drawing, Sequence of Ops	Capacity	
CAES.3.3: Auto Shutoff Controls	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.3.1.CAN.3.3 - Manually enter credits and provide calculation	Calculation	Capacity	
CAES.3.4: Reduced Lighting Power by 10%(C Credit)											Calculation, Sequence of Ops	Modified Capacity	
CAES.3.5: Daylighted Zones	CONOnsen #22-2021		1		1	NA	1		1	Select only 1 from CAN.3.1.CAN.3.3	Drawing, Sequence of Ops	Area	
CAES.3.6: Reconnect/Remote SWP	CONOnsen #22-2021		NA		1	NA	1		1	Enter building types in Table CAN.3.1 to provide. If must comply with CAES.2.1 eligible for half the credits.	Calculation	Capacity	
CAES.3.7: Reduced Lighting Power by 5%	CONOnsen #22-2021		NA		1		1		1	Enter building types in Table CAN.3.1 to provide	Calculation	Efficiency % diff	
CAES.3.8: Heat Pump SWP	CONOnsen #22-2021		NA		1		1		1	Enter building types in Table CAN.3.1 to provide	Schedule, Drawing	NA	
CAES.3.9: Reduced envelope UA	CONOnsen #22-2021 with Denver Specific instructions		10		4		5		6	Select only 1 from CAN.4.1.CAN.4.2	Calculation	UA % diff	15%
CAES.3.10: Reduced envelope UA	CONOnsen #22-2021 with Denver Specific instructions		5		2		3		3	Select only 1 from CAN.4.1.CAN.4.2	Calculation	UA % diff	>15%
CAES.3.11: Reduced Air Infiltration	CONOnsen #22-2021		1		1		1		1	Select only 1 from CAN.4.3.1.CAN.4.3.2	Document, Report	NA	0.25 cfm/sf at 75 Pa
CAES.3.12: Further Reduced Air Infiltration	Denver Specific - threshold only		2		2	NA	1		2	Select only 1 from CAN.4.3.1.CAN.4.3.2	Document, Report	NA	0.15 cfm/sf at 75 Pa
CAES.3.13: Fuel Switching	CONOnsen #22-2021		5		5		5		5		Calculation, Spec	NA	
CAES.3.14: Fuel Switching	CONOnsen #22-2021		10		10		10		10		Drawings, Spec	NA	
CAES.3.15 Efficient Kitchen Equipment	CONOnsen #22-2021									Manually enter points and provide calculation - 20 Max	Calculation	Modified efficiency % diff	
CAES.3.16: Cold Climate Heat Pumps	Denver Specific		0		0		0		0	All Electric Prospective and eligible, Available when not required by CAES.2.4	Schedule, Calculation	NOTE	
CAES.3.17: Cold Climate Heat Pumps	Denver Specific		0		0		0		0	All Electric Prospective and eligible, Available when not required by CAES.2.4	Schedule, Calculation	NOTE	
CAES.3.18: Demand Responsive Thermostats	Denver Specific		1		1		1		1		Drawing, Spec	NA	
CAES.2.2.7: Further Reduced Air Flow	Denver Specific		1	NA	1		1		1	Select only 1 from CAN.2.2.7.CAN.2.2.7	Calculation	Air power % diff	10%
CAES.2.2.7: Further Reduced Air Flow	Denver Specific		2	NA	2		2		2	Select only 1 from CAN.2.2.7.CAN.2.2.7	Calculation	Air power % diff	20%

a. Other occupancy groups include all Groups except for Groups B, R, I, I, and M

b. For occupancy groups listed in CAN.1.1

Version 1.6 Dated November 7, 2023

05.08.2024

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STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - Building Envelope

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 5/8/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
ALL COMPLIANCE PATHS					
C402.1.5	Minimum insulation	Roofs, walls, and floors shall meet applicable maximum U-factor requirements of Table C402.1.5	Y	G001, G012, A403 - A409 & A602	Indicate location of: - Supplemental calculations if applicable
C402.1	Thermal Envelope	Thermal envelope shall be depicted.	Y	Sheets A401 - A409	Indicate location of: - Drawings with thermal envelope as required by C103.2.1
C402.5	Air Barrier	Continuous air barrier shall be provided.	Y	Sheets A403 - A409	Indicate location of: - Drawings with continuous air barrier and air sealing details as required by C103.2
C402.5.5	Room Containing Fuel Burning Appliances	Rooms containing fuel burning appliances and combustion air openings shall be located outside the building thermal envelope or located in a room that is enclosed and isolated from conditioned spaces inside the thermal envelope, note the exception.	N/A	Project does not contain fuel burng appliances Or combustion air openings.	Indicate location of: - Drawings showing rooms containing fuel burning appliances and combustion air openings
C402.5.8	Loading dock weather seals	Cargo door and loading door openings shall be equipped with weather seals.	N/A	Project does not have cargo door.	Indicate location of: - Drawings with weather seals
C402.5.9	Vestibules	Building entrances shall be protected with vestibules when opening into a space greater than or equal to 3,000 sf.	N/A	Area is less than 3,000	Indicate location of: - Drawings with vestibules

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Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	Y	Separate ComCheck shall be provided.	Indicate location of: COMcheck certificate and inspection checklist Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C402.1 C402.2.1	Roof Assembly	Roof assembly shall comply with C402.2.1 and either C402.1.3, C402.1.4, or C402.1.5.	Y	A140, A401 - A409	Indicate location of: - Drawings with roof sections with the corresponding insulation thickness, type and R-value (at average thickness if tapered)
C402.1 C402.2.2	Above Grade Walls	Above grade walls shall comply with C402.2.2 and either C402.1.3, C402.1.4, or C402.1.5.	Y	G001, A401 - A409	Indicate location of: - Drawings with above grade wall sections with the corresponding insulation thickness, type, and R-value or assembly U-factor
C402.1 C402.2.3	Floors	Floors shall comply with C402.2.3 and either C402.1.3, C402.1.4, or C402.1.5.	Y	G001, A401 - A409	Indicate location of: - Drawings with floor sections with the corresponding insulation thickness, type and R-value
C402.1 C402.2.4	Slab-on-Grade Floors	Slab on grade floors shall comply with C402.2.4 and either C402.1.3, C402.1.4, or C402.1.5.	Y	G001, A401 - A409	Indicate location of: - Drawings with wall sections with the slab on grade floor with the corresponding insulation thickness, type and R-value Show insulation extending downward from the top of the slab.
C402.1 C402.2.5	Below Grade Walls	Below grade walls shall comply with C402.2.5 and either C402.1.3, C402.1.4, or C402.1.5.	N/A	Project does not include any below grade walls. Entire project is slab on grade.	Indicate location of: - Drawings with wall sections for below-grade wall assemblies with the corresponding insulation thickness, type and R-value or assembly C-factor
C402.1 C402.4.5	Opaque Doors	Opaque doors shall comply with either C402.1.4, or C402.1.5.	Y	G001, A601	Indicate location of: - Drawings with door schedules with U-factor of the opaque doors
C402.2.7	Air Spaces	When the R-value of an air space is used to show compliance with C402.1, air spaces shall be enclosed in unventilated cavity constructed to minimize air flow.	N/A	R-Values are met with insulation and are not dependint on air space.	Indicate location of: - Drawings with wall sections showing air space on the interior side of the continuous air barrier and bound on all sides by building components
C402.4.1	Fenestration (Maximum Area)	Vertical fenestration area shall be less than or equal to 30% of gross above grade wall area or less than or equal to 40% when meeting daylighting requirements. Not required with complying with C402.1.5.	N/A	Project is not pursuing this credit.	Indicate location of: - Drawings with vertical fenestration area calculations - Drawings with sidelit daylight zones

05.08.2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C402.4.1	Skylights (Maximum Area)	Skylight area shall be less than or equal to 3% of gross roof area or less than or equal to 6% when meeting daylighting requirements in toplit zones. Not required with complying with C402.1.5.	N/A	Project does not include any skylights.	Indicate location of: - Drawings with skylight area calculations - Drawings with toplit daylight zones
C402.4.2	Skylights (Minimum Area)	Provide a total toplit daylight zone not less than half the floor area for spaces greater than 2500 square foot with ceiling height greater than 15 feet and uses as an office, lobby, atrium, concourse, corridor, storage space, gymnasium/exercise center, convention center, automotive service area, space where manufacturing occurs, nonrefrigerated warehouse, retail store, distribution/sorting area, transportation dopot or workshop. See code for exceptions.	N/A	Project does not include any skylights.	Indicate location of: - Drawings with skylights - Drawings with toplit daylight zones
C402.4.3	Maximum U-factor and SHGC for Fenestration	Maximum U-factors and SHGC for fenestration shall comply with Table C402.4 or C402.1.5.	Y	G001, A601 & A602.	Indicate location of: - Drawings, schedules or specifications with U-factor (full system, not center of glazing) and SHGC of the fenestration
C406 SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.8.1 C406.8.2	Reduced envelope UA	Reduced UA of the building thermal envelope: C406.8.1 - 15% C406.8.2 - 25%	N/A	Project is not pursuing this credit.	Indicate credit selected and location of: - Building thermal envelope UA reduction - Supplemental calculations if applicable
C406.9.1 C406.9.2	Reduced Air Infiltration	The measured air leakage rate at 75 Pa shall not exceed C406.9.1 - 0.25 cfm/ft2 C406.9.2 - 0.15 cfm/ft2	N/A	Project is not pursuing this credit.	Indicate credit selected and location of: - Commissioning letter confirming air leakage target

Version 1.6 Dated March 1, 2024

05.08.2024

LIMITED MANDATORY USE CHECKLIST

2022 Denver Green Code
Limited Mandatory Use (LMU) Checklist

DENVER COMMUNITY PLANNING & DEVELOPMENT

For Use with Commercial Project Construction Document Submittals
(use 2022 Denver Green Code Table 101.4.1 for reference)

INSTRUCTIONS: Please complete the information in the tan-shaded cells. Use dropdown to select Project Type, then use dropdowns to mark selected provisions in each chapter. The quantity of provided provisions must be equal to or greater than the quantity of required provisions. For each selected provision, provide the drawing or specification number(s) where submittal requirements are shown in the construction documents.

The Limited Mandatory Use (LMU) Commercial checklist is required for all commercial projects complying with the Denver Building Code (DBC) for new buildings and major renovations and their sites.

This checklist identifies the minimum submittal requirements necessary to demonstrate compliance with the Denver Green Code provisions.

Project Type (SELECT ONE):	New Construction	Project meets minimum requirements of Limited Mandatory Use

Chapter 1: SCOPE AND ADMINISTRATION

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
EIS	Ecological Impact Statement *(May be submitted as a substitution provision to satisfy one required provision from any single qualifying chapter)*		
	Quantity of Required Provisions	**0**	
	Quantity of Provided Provisions	**0**	

Chapter 5: SITE SUSTAINABILITY [SS]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
SS01	Predesign Site Inventory and Assessment		
SS02	Invasive Plants	X	Landscaping Plan
SS03	Existing Native or Adapted Plants		
SS04	Minimum Vegetative Area		
SS05	Mulching of Shrub Bed/Planting Areas		
SS06	Only Functional (Active) Turfgrass		
SS07	Landscaping Design and Maintenance		
SS08	Established Tree Preservation		
SS09	Rock Mulch Allowances	X	2023-SDP-0000134
SS10	Stormwater Management	X	2023-EC-0000206
SS11	Coal Tar Sealants		
SS12	Mitigation of Heat Island Effect		
SS13	Reduction of Light Pollution	X	E Series sheets.
SS14	Mitigation of Transportation Impacts		
SS15	Site Construction Waste Management Plan		
SS16	Soil Amendment		
SS17	Bird Friendly Materials		
SS18	Declining Species Support		
SS19	Allowable Pesticides		
	Quantity of Required Provisions	**4**	
	Quantity of Provided Provisions	**4**	

Chapter 6: WATER EFFICIENCY [WE]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
WE01	Site Water Use Reduction	X	Irrigation plan
WE02	Site Water Use Reduction - Stretch		
WE03	No Irrigation		
WE04	Building Water Use Reduction		
WE05	Special Water Features		
WE06	Water Consumption Measurement		
WE07	Reverse Osmosis Water Treatment		
WE08	On-Site Graywater Systems		
WE09	Dual Water Supply Plumbing		
WE10	Drought Preparedness		
	Quantity of Required Provisions	**1**	
	Quantity of Provided Provisions	**1**	

Chapter 7: COMMERCIAL ENERGY [CE]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
CE01	Reduced Air Infiltration		
CE02	Enhanced IECC C406 Credit Requirements		
CE03	Energy Consumption Management		
CE04	Demand Response		
CE05	Renewables Approach		
CE06	Battery Storage		
CE07	Building Envelope		
CE08	SHGC of Vertical Fenestration	X	G001 & A602
CE09	Orientations of Vertical Fenestration		
CE10	Minimum Equipment Efficiencies (HVAC)		
CE11	Ventilation Controls		
CE12	Duct Leakage Tests		
CE13	Economizers Minimum Equipment Performance Ratings (Air Conditioners and Heat Pumps)		
CE14	Fan System Power		
CE15	Exhaust Air Energy Recovery		
CE16	Duct Insulation		
CE17	Automatic Control of HVAC and Lights in Hotel/Motel Guest Rooms		
CE18	Equipment Efficiency (Service Water Heating)		
CE19	Insulation for Spa Pools		
CE20	High Output Service Water Heating Systems		
CE21	Drain water heat recovery		
CE22	Interior Lighting Power Densities (LPDs)		
CE23	Exterior Lighting Power Densities (LPDs)		
CE24	Horticulture Lighting		
CE25	Lighting Controls		
CE26	Kitchen Exhaust Systems		
CE27	Supermarket Heat Recovery		
CE28	ENERGY STAR Rqmts for Equipment not Covered by Federal		
CE29	ENERGY STAR Rqmts for Equipment Covered by Federal		
CE30	Energy Monitoring		
CE34	Reserved		
CE35	Zero Net Energy Approach		
CE36	Commercial Passive House Approach		
	Quantity of Required Provisions	**1**	
	Quantity of Provided Provisions	**1**	

Chapter 8: INDOOR ENVIRONMENTAL QUALITY [EQ]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
EQ01	Indoor Air Quality	X	M Series Sheets
EQ02	Minimum Ventilation Rates		
EQ03	Outdoor Air Delivery Monitoring		
EQ04	Filtration and Air Cleaner Requirements		
EQ05	Building Pressure - Mechanical Exhaust		
EQ06	Humidity Control		
EQ07	Building Entrances		
EQ08	Thermal Environmental Conditions for Human Occupancy		
EQ09	Acoustical Control		
EQ10	Soil-Gas Control		
EQ11	Lighting Quality		
EQ12	Moisture Control (Envelope)		
EQ13	Glare Control (Manual)		
EQ14	Glare Control (Automatic)		
EQ15	Materials (Emissions)		
EQ16	Daylighting		
	Quantity of Required Provisions	**1**	
	Quantity of Provided Provisions	**1**	

Chapter 9: MATERIALS AND RESOURCES [MR]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
MR01	Building Construction Waste Management		
MR02	Embodied CO2e of concrete materials		
MR03	Embodied CO2e of steel materials		
MR04	Refrigerants	X	M600
MR05	Storage Areas and Collection of Recyclables	X	
MR06	Mercury Content Levels of Lamps	X	All fixtures LED per EOR.
MR07	Building Materials (Environmental Impacts)		
MR08	Design for Deconstruction		
MR09	Use of Salvaged Materials		
MR10	Design for Deconstruction - Dwelling Units and Accessory Structures		
	Quantity of Required Provisions	**3**	
	Quantity of Provided Provisions	**3**	

Chapter 10: CONSTRUCTION AND PLANS FOR OPERATION [CX]

Provision Number	Provision Name	Selected Provisions (mark with X)	Drawing or Specification Number(s) where submittal requirements are shown (N/A if not applicable)
CX01	Functional and performance testing and commissioning		
CX02	Acoustical Control		
CX03	Building Project Commissioning Process + Documentation	X	G001
CX04	Erosion and Sedimentation Control (ESC) (during construction)	X	2023-EC-0000206
CX05	IAQ Construction Mgmt (during constr., incl. flush-out)		
CX06	Moisture Control (during construction)		
CX07	Construction Activity Pollution Prevention: Limits Idling of Construction Vehicles		
CX08	Construction Activity Pollution Prevention: Protection of Occupied Areas (contaminant entry into occupied buildings during construction)		
CX09	Soil-Gas Control (Testing) requires post-construction testing for radon in buildings.		
CX10	Construction Waste Management Plan		
CX11	Plans for Operation requires plans for building project operation. These plans are intended to help and encourage building owners and facility management staff to operate and maintain building projects in a manner, and at a performance level, as was originally intended by this code.		
CX12	Transportation Management Plan		
CX13	IAQ maintenance and monitoring		
CX14	Outdoor air ozone air cleaners		
CX15	Indoor Environmental Quality Assurance and Awareness		
CX16	Benchmarking Operational Water and Waste		
	Quantity of Required Provisions	**2**	
	Quantity of Provided Provisions	**2**	

Issue Record:

05/09/2024	PERMIT SET

Revisions:

2	09/09/2024	Revision 2

Drawn: JM — Checked: DG

Project No.: 05-5119

Contents:

DEC Compliance Checklist (Bldg Env)

G001.1

DENVER ENERGY CODE - COMMERCIAL COMPLIANCE CHECKLIST

COMcheck Software Version COMcheckWeb
Envelope Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	CMG Denver Runway 35N 05-5119
Location:	Denver, Colorado
Climate Zone:	5b
Project Type:	New Construction
Vertical Glazing / Wall Area:	19%
Construction Site:	Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)

Credits: 10.0 Required - 10.0 Proposed
- Heat pump water heater, 5.0 credit
- 5% cooling efficiency improvement, 0.0 credit
- Enhanced envelope performance, 0.0 credit
- Reduced air infiltration, 4.0 credit
- Fault detection and diagnostics system, 1.0 credit

Building Area	Floor Area
1-Dining: Cafeteria/Fast Food : Nonresidential	2400

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor(a)
Floor: Unheated Slab-On-Grade, Vertical 2 ft., [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (c)	208	---	15.0	0.520	0.520
Roof: Insulation Entirely Above Deck, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	2400	---	30.0	0.032	0.032
NORTH					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1262	19.0	3.8	0.052	0.051
Window: Metal Frame with Thermal Break: Operable, Perf. Specs.: Product ID Solarban 70, SHGC 0.26, PF 0.51, VT 0.63, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	43	---	---	0.240	0.450
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.38, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	35	---	---	0.360	0.360
EAST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	681	19.0	3.8	0.052	0.051
Door: Glass (over 50% glazing): Metal Frame, Entrance Door, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.61, PF 0.51, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	21	---	---	0.630	0.630
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.61, PF 0.51, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	262	---	---	0.360	0.360
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.38, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	66	---	---	0.360	0.360
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	1262	19.0	3.8	0.052	0.051
WEST					
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	681	19.0	3.8	0.052	0.051
Door: Insulated Metal, Swinging, [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	25	---	---	0.370	0.370
Window: Metal Frame with Thermal Break: Fixed, Perf. Specs.: Product ID PPG Solarban 60, SHGC 0.38, VT 0.67, [Bldg. Use 1 - Dining: Cafeteria/Fast Food] (b)	7	---	---	0.360	0.360
Ext. Wall: Wood-Framed, 16in. o.c., [Bldg. Use 1 - Dining: Cafeteria/Fast Food]	83	19.0	3.8	0.052	0.051

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.
(b) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.
(c) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Carl Lingle — Name - Title
Carl Lingle — Signature
10/01/2024 — Date

LICENSED ARCHITECT — CARL L LINGLE — 306135 — STATE OF COLORADO

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 75.0% were addressed directly in the COMcheck software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR1][1]	Plans and/or specifications provide all information with which compliance can be determined for the building envelope and document where exceptions to the standard are claimed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1.1 [PR12][1]	Vertical Fenestration Area Allowance: A maximum of 40 percent of gross above-grade wall area is permitted to be vertical fenestration area provided >= 50 percent of the conditioned floor area is within a daylight zone, daylight responsive controls are installed, and glazing assemblies within the scope of NFRC 200 have visible transmittance >= 1.1 times SHGC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.1.2 [PR13][1]	A maximum of 6 percent of roof area is permitted to be skylight area provided daylight responsive controls are installed in daylight zones under skylights.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** NA
C402.4.2 [PR14][1]	In enclosed spaces > 2,500 ft2 directly under a roof with ceiling heights >15 ft. and used as an office, lobby, atrium, concourse, corridor, storage, gymnasium/exercise center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/sorting area, transportation, or workshop, the following requirements apply: (a) the daylight zone under skylights is >= half the floor area; (b) the skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.40; or a minimum skylight effective aperture >= 1 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C303.2 [FO4][1]	Slab edge insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2.1 [FO6][1]	Exterior insulation protected against damage, sunlight, moisture, wind, landscaping and equipment maintenance activities.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C105 [FO3][1]	Installed slab-on-grade insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.4 [FO7][1]	Slab edge insulation depth/length. Slab insulation extended away from building is covered by pavement or >= 10 inches of soil.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. *See the Envelope Assemblies table for values.*

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Framing / Rough-In Inspection	Complies?	Comments/Assumptions
C303.1.3 [FR12][1]	Fenestration products rated in accordance with NFRC certified and as to performance labels or certificates provided.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.4.3 [FR10][1]	Vertical fenestration SHGC value.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.3, C402.4.3.4 [FR8][1]	Installed vertical fenestration U-factor and SHGC consistent with label specifications and as reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.4.5 [FR14][1]	U-factor of opaque swinging and nonswinging doors associated with the building thermal envelope meets requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.3 [FR19][1]	The building envelope contains a continuous air barrier that is sealed in an approved manner and material permeability <= 0.004 dfm/ft2. Air barrier penetrations are sealed in an approved manner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.4 [FR18][1]	Factory-built fenestration and doors are labeled as meeting air leakage requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][1]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][1]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.7 [ME58][1]	Outdoor air and exhaust systems have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Check gravity dampers where allowed. Reference section language for operational details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.9 [ME144][1]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.2 [ME115][1]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.7.5 [ME116][1]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.4.1.4 [ME63][1]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.2.1 [ME53][1]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C403.11.3 C403.11.3.1, C403.11.3.2 [ME123][1]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][1]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.8 [EL27][1]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][1]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][1]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][1]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][1]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Insulation Inspection	Complies?	Comments/Assumptions
C303.1 [IN3][1]	Roof insulation installed per manufacturer's instructions and is labeled with R-value or insulation certificate providing R-value and other relevant data. Blown or poured loose-fill insulation is installed only where the roof slope is <=3 in 12.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C402.2.1 [IN20][1]	Roof assembly meets minimal thermal resistance installed between roof framing or in a continuous fashion on the roof assembly as stipulated in Table C402.1.3. Requirements for above deck insulation, minimum thickness, suspended ceilings, staggered joints and skylight curbs will be met.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C303.2 [IN7][1]	Above-grade wall insulation installed per manufacturer's instructions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C105 [IN6][1]	Installed above-grade wall insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.3 [IN8][1]	Installed floor insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.2.6 [IN18][1]	Radiant panels and associated components, designed for heat transfer from the panel surfaces to the occupants or indoor space are insulated with a minimum of R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C105 [IN2][1]	Installed roof insulation type and R-value consistent with insulation specifications reported in plans and COMcheck reports. For some ceiling systems, verification may need to occur during Framing Inspection.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Envelope Assemblies table for values.*
C402.5.1.1 [IN1][1]	All sources of air leakage in the building thermal envelope are sealed, caulked, gasketed, weather stripped or wrapped with moisture vapor-permeable wrapping material to minimize air leakage.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C401.3 [FI58][1]	A thermal envelope certificate will be supplied and completed by an approved third party.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.10 [FI26][1]	Recessed luminaires in thermal envelope to limit infiltration and be IC rated and labeled. Seal between interior finish and luminaire housing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C402.5.8 [FI37][1]	Weatherseals installed on all loading dock cargo door openings and provide direct contact along the top and sides of vehicles parked in the doorway.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C404.3 [FI11][1]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C406.2.2 [FI66][1]	5% cooling efficiency improvement - all HVAC and Plant cooling equipment is 5% more efficient than required by 2021 IECC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.7.4 [FI53][1]	Reduced energy use in service water heating - the hot water system is served by heat pump water heaters with a minimum Energy Factor of 3.0. The heat pump does not draw conditioned air from within the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.8 [FI68][1]	Enhanced envelope performance - the building thermal envelope UA value is >= 15% better than the total UA of the envelope specified by Section C402.1.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.9 [FI56][1]	Reduced air infiltration energy - the measured air-leakage rate of the building envelope is lower than 0.25 cfm/ft2. Comprehensive report documentation will be submitted to the code official and the building owner.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.11 [FI64][1]	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)

DENVER ENERGY CODE - COMMERCIAL COMPLIANCE CHECKLIST





May 06, 2024

Denver Plan Reviewer
Development Services
201 W. Colfax Ave.
Denver, CO 80202

RE: 8968 E 46th Avenue Denver, Colorado
Commissioning Requirements

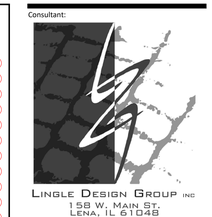
The following letter is submitted as required per section D of the City and County of Denver Permit Submittal Requirements to Document Compliance with the IECC memo dated December 5, 2023. This project requires commissioning in accordance with section C408.2 of the 2021 International Energy Conservation Code (IECC), including Denver specific amendments set forth in 2022 DEC because the combined space heating and service water heating capacity is over 600,000 BTUH. Lighting Controls verification is not required because the building is below 10,000 square feet and less than 10 kw proposed installed wattage.

1. **Project Address and Log #**
   8968 E. 46th Avenue
   Denver, CO 80238
   Log # TBD
2. **General Contractor:**
   Company: To Be Determined
   Address: To Be Determined
3. **Approved Agency, Commissioning Agent:**
   Ramirez, Johnson & Associates, LLC
   -Eric Johnson, CxA, License 510-665,
4. **Signature of the Project Owner**
   Noted Below

Project Owner – Signature

Project Owner – Printed

Consultant:



LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
303.974.5873
WWW.LINGLEDESIGN.COM

LICENSED ARCHITECT — CARL L LINGLE — 306135 — STATE OF COLORADO

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COLUMBUS, OH 43218-2566
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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

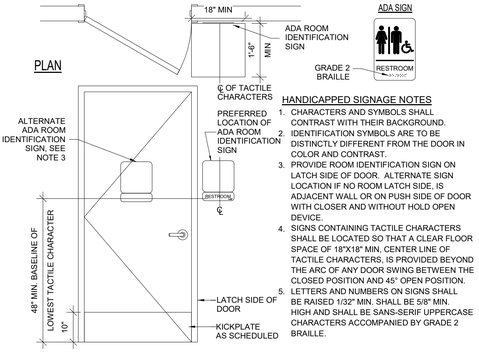
3	10/01/2024	Revision 3

Drawn: JM Checked: JK

Project No.: 05-5119

Contents: ComCheck

G001.2



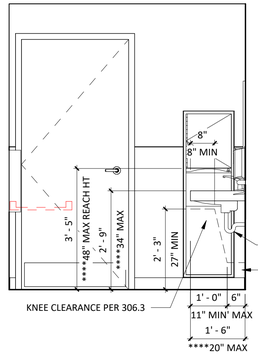
HANDICAPPED SIGNAGE NOTES

1. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
2. IDENTIFICATION SYMBOLS ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.
3. PROVIDE ROOM IDENTIFICATION SIGN ON LATCH SIDE OF DOOR. ALTERNATE SIGN LOCATION IF NO ROOM LATCH SIDE, IS ADJACENT WALL OR ON PUSH SIDE OF DOOR WITH CLOSER AND WITHOUT HOLD OPEN DEVICE.
4. SIGNS CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"X18" MIN, CENTER LINE OF TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45° OPEN POSITION.
5. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN. SHALL BE 5/8" MIN. HIGH AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.

PER ICC A117.1

7 G002 RESTROOM SIGNAGE DETAIL

1/2" = 1'-0"



****48" MAX PER 2017 ICC A117.1 FIG. 308.2.2 (A) OBSTRUCTED HIGH FORWARD REACH.

Note: Based on lav max depth 20"

*****34" MAX PER 2017 ICC A117.1 FIG. 606.3 HT OF LAVS & SINKS

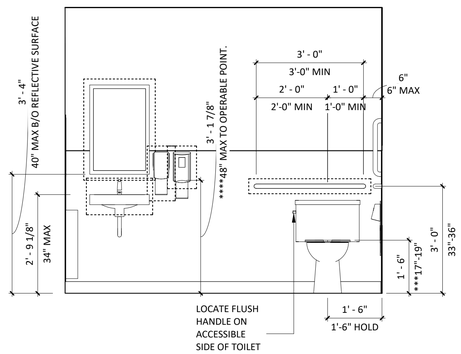
******48" MAX PER 2017 ICC A117.1 603.6 & TABLE 603.6

PROTECT PIPES AGAINST CONTACT PER 606.6

TOE CLEARANCE PER 306.2.5

5 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"



***17"-19" PER 2017 ICC A117.1 FIG. 604.4 (D) WATER CLOSET SEAT HEIGHT.

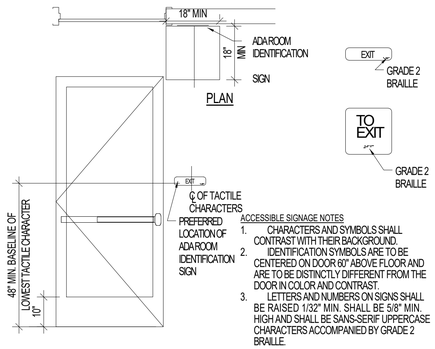
The height of the water closet seats shall be 17" min and 19" max above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

****48" MAX PER 2017 ICC A117.1 FIG. 308.2.2 (A) OBSTRUCTED HIGH FORWARD REACH.

Note: Based on lav max depth 20"

2 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"

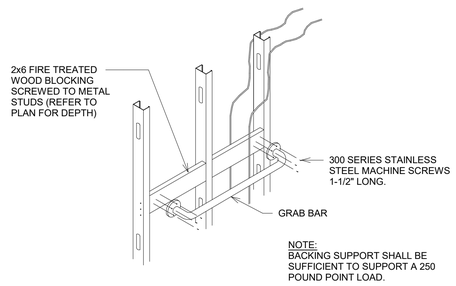


ACCESSIBLE SIGNAGE NOTES

1. CHARACTERS AND SYMBOLS SHALL CONTRAST WITH THEIR BACKGROUND.
2. IDENTIFICATION SYMBOLS ARE TO BE CENTERED ON DOOR 60" ABOVE FLOOR AND ARE TO BE DISTINCTLY DIFFERENT FROM THE DOOR IN COLOR AND CONTRAST.
3. LETTERS AND NUMBERS ON SIGNS SHALL BE RAISED 1/32" MIN. SHALL BE 5/8" MIN. HIGH AND SHALL BE SANS-SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE 2 BRAILLE.

8 G002 EXIT SIGNAGE DETAIL

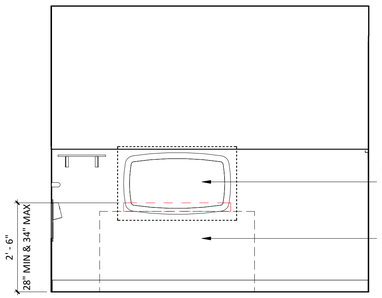
1/4" = 1'-0"



NOTE:
BACKING SUPPORT SHALL BE SUFFICIENT TO SUPPORT A 250 POUND POINT LOAD.

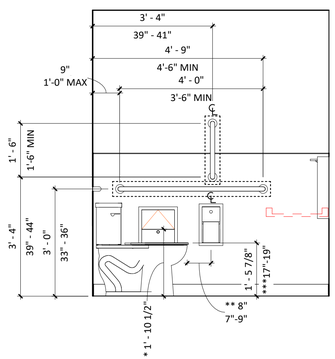
6 G002 TYP. GRAB BAR ATTACHMENT DETAIL

1/2" = 1'-0"



3 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"



*18" MIN PER 2017 ICC A117.1 FIG. 604.7.1 (C) DISPENSER OUTLET LOCATION RECESSED DISPENSER

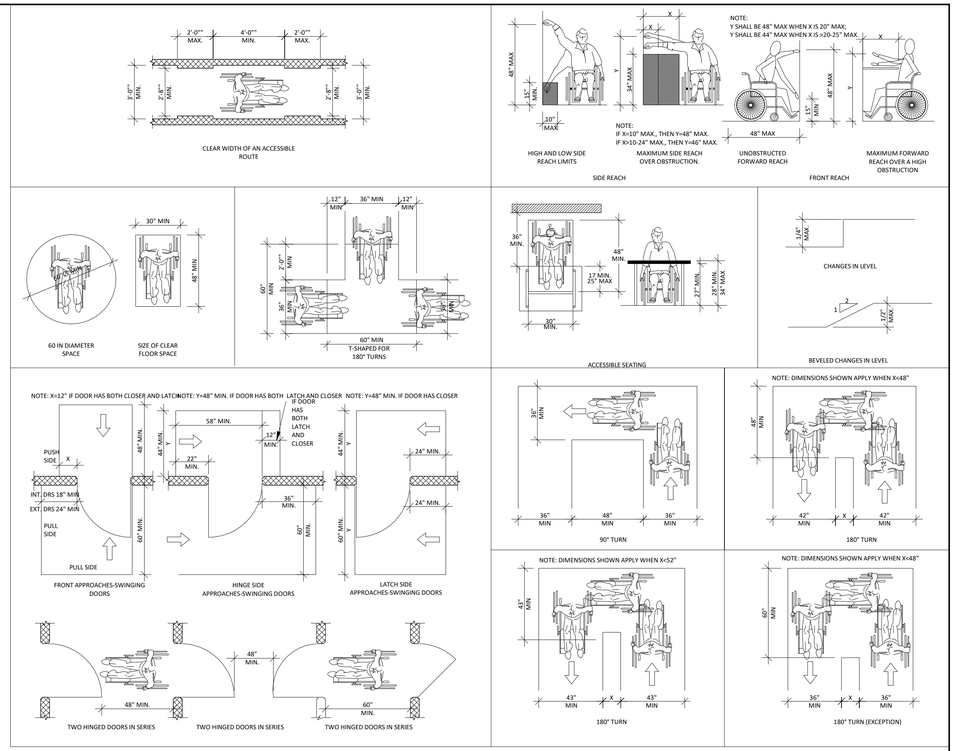
**7"-9" PER 2017 ICC A117.1 FIG. 604.7.1 (D) DISPENSER OUTLET LOCATION IN FRONT OF WATER CLOSET - EXCEPTION

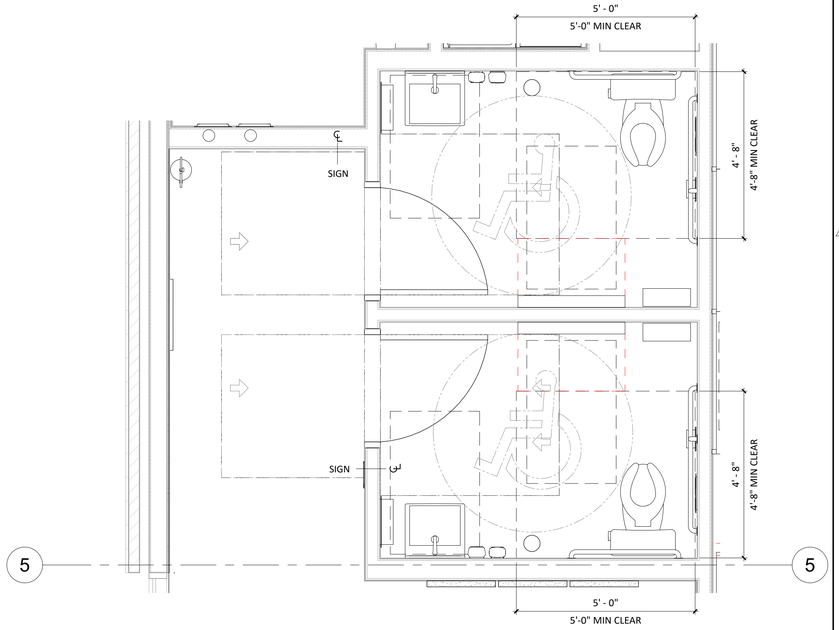
***17"-19" PER 2017 ICC A117.1 FIG. 604.4 (D) WATER CLOSET SEAT HEIGHT.

The height of the water closet seats shall be 17" min and 19" max above the floor, measured to the top of the seat. Seats shall not be sprung to return to a lifted position.

1 G002 RR ACCESSIBILITY ELEVATION

1/2" = 1'-0"





9 G002 RESTROOM ACCESSIBILITY PLAN

1/2" = 1'-0"

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05/09/2024	PERMIT SET

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Checked: CL

Project No.: 05-5119

Contents:

ACCESSIBILITY REQUIREMENTS

G002

June 16, 2023

Tony Pierangeli and Erik Christopher
Email: Tony.Pierangeli@SRSRE.com; Erik.Christopher@SRSRE.com

Re: Proposed Ground Lease Agreement between Chipotle Mexican Grill, Inc. ("Tenant") and Runway 35 North LLC ("Landlord") for premises located at Runway North at Central Park Blvd. and I70, Stapleton, CO (the "Premises")

Dear Tony and Erik:

I wish to convey Tenant's interest in leasing the above-referenced Premises.

This letter summarizes recent discussions to lease the Premises; it is not intended to be contractual in nature, but only expresses the basis upon which we would be interested in negotiating a long-term Lease. The undersigned acknowledges that this letter is intended to outline initial terms for consideration only and that no party shall be obligated contractually hereunder unless and until a mutually satisfactory Lease agreement is fully executed by, and delivered to, all parties.

Landlord:	Runway 35 North, LLC
Tenant:	Chipotle Mexican Grill, Inc.
	Chipotle Mexican Grill, Inc.
Guarantor:	Chipotle Mexican Grill, Inc., for leases where the Tenant is not Chipotle Mexican Grill, Inc.
Premises:	Pad 10B in the Runway North shopping center, approximately 0.80 acres of land shown on **Exhibit A** ("Site Plan").

{04356406 / 1}C:\Users\MW\AppData\Local\Microsoft\Windows\INetCache\Content.Outlook\D1754T4Y\Chipotle\LOI_Curb-In_Runway35N_071323(LC-Redline).docxW:\rwdocs\forms\CHIPOTLE\00089092.DOC

Term:	Primary Term: A Twenty (20)-year period commencing on the Rent Commencement Date Extended Terms: Four (4) five (5)-year terms, each commencing on the expiration date of the immediately preceding Primary Term or Extended Term. Provided Tenant is open for business and there has not been a default or breach of the Lease beyond any applicable cure period. Tenant may exercise its option to extend the Term for an Extended Term by providing written notice to Landlord at least 180 days prior to the expiration of the then-current Term. Landlord shall provide notice to Tenant prior to the forfeiture of extension options.
Minimum Rent:	Years 1-5: $145,000 per year with 10% increases every 5 years thereafter, including option periods.
Expenses:	Beginning on the Possession Date, Tenant shall self-maintain and insure the Premises. Tenant will directly pay all taxes and assessments as well as all utilities pertaining to the Premises. Additionally, Tenant will pay its *pro rata* share of the Premises' common area maintenance expenses under the COREA, which are estimated to be $250.00 per month.
Security Deposit:	None.
Percentage Rent:	None.
Merchant's Ass'n:	None.
Advertising/ Grand Opening Fees:	None.
Possession Date:	The later of (a) the earlier of (i) expiration of the Permit Contingency or (ii) the date upon which Tenant obtains its building permits, or (b) substantial completion of Landlord's Work to Tenant's reasonable satisfaction (excluding utilities, irrigation, landscaping and delayed improvements for utilities) and Landlord's improvements (excluding utilities, irrigation, landscaping and delayed improvements for utilities) in the Common Areas that are necessary for Tenant to commence construction on its building.. Tenant acknowledges that there are a few items of Landlord Work (including utilities, irrigation, landscaping, and delayed improvements for the utilities) that is dependent upon Tenant's completion of some of Tenant's Work and will be completed

after the Possession Date. Tenant agrees to commence its work at a mutually agreeable time after receipt of Tenant's building permits and after the Possession Date. Landlord shall complete the remaining items of Landlord Work (including utilities, irrigation, landscaping, and delayed improvements for the utilities) as soon as reasonably possible after Tenant has completed the necessary items to allow for Landlord to complete Landlord's Work.

Rent Commencement Date:	The earlier of (a) Tenant's opening in the Premises or (b) One hundred eighty (180) days after Possession Date (the "Build Out Period").
Landlord's Work:	Landlord shall provide improvements to the Premises outside of the Building Envelope at Landlord's cost and expense in accordance with the Landlord's Work Exhibit attached hereto as **Exhibits, C** and **C-1**, subject to approval by the city, city inspectors, and the Central Park Design Review Committee. Landlord and Tenant acknowledge that Landlord's Work is dependent on Tenant obtaining building permit completing some of Tenant's Work and providing documents to Landlord in a timely manner for permitting approvals, including but not limited to architectural elevations, and utility information and applications; including, but not limited to Xcel applications.
Tenant Improvement Allowance:	None.
Patio Area:	Tenant shall be allowed to create a patio area for Tenant's exclusive use, with tables, chairs, umbrellas, lights, and railings, of not less than 350 square feet. Tenant shall not be obligated to pay additional rent for the use of the patio area.
Permitted Use:	Within 120 days following the Rent Commencement Date, Tenant will open and operate for 1 day as a "Chipotle" restaurant serving specialty burritos, quesadillas, tacos and other items generally served in a "Chipotle" restaurant, including alcoholic beverages. After opening for 1 day as a "Chipotle" restaurant, Tenant may change its use to any other lawful retail or restaurant purpose, subject to the COREA.
Exclusive Use:	Following the waiver of all Lease contingencies Landlord shall record a COREA Supplement restricting any other property within the Shopping Center from the primary (defined as cumulative sales of the following items in excess of 20% of gross sales) sale of burritos, Mexican wraps, quesadillas or tacos, excluding existing tenants with leases at shopping center

Contingency:	[Raising Canes, In-N-Out, PNC Bank, Chili's, SCL Health, Dutch Bros, Superstar Car Wash, GO Church, The Gardner School, and pending [CAVA]] ("Exclusive Use"). Tenant's Exclusive Use shall not apply to businesses selling tacos and /or burritos, or quesadillas on an incidental basis (cumulative sales less than 20% of gross annual sales), or to a full-service sit-down restaurant. Tenant may terminate the Lease if it is unable to obtain its necessary and required building, patio area, and signage permits and approvals, and a liquor license, on or before the date which is 180 days after the later of (a) Tenant's receipt of Landlord's approved City Site Development Plan or (b) Lease Execution [*LL will approve Tenant's Plans during the lease negotiation process.*] ("Permit Contingency"). If Tenant is unable to obtain its permits during the Permit Contingency, Tenant shall so notify Landlord and Landlord shall have the right, but not the obligation, at no cost to Landlord, to attempt to, for a period of 180 days obtain Tenant's permits on Tenant's behalf.
New Construction by Landlord *Contingency	Landlord has not completed its draft Site Development Plan for the Premises. Landlord agrees to provide Tenant with its draft Site Development Plan for the Premises and standard signage specifications for the Shopping Center (collectively, "Landlord's Draft Site Development Plan") prior to Lease execution. Tenant shall have fourteen (14) days from receipt of Landlord's Draft Site Development Plans to approve Landlord's Draft Site Development Plan. Landlord agrees to provide Tenant with its full set of horizontal construction drawings, including an approved Site Development Plan, within sixty (60) days of receiving the required approvals on Landlord's Draft Site Development Plan. [*Tenant's termination rights relating to the SDP will extinguish once it has approved the Draft SDP unless there are substantial, material changes during the city approval process.*]
Coordination of Work	Assuming the costs are reasonable and customary, Landlord and Tenant agree to use the same general contractor, utility project manager and architect for their respective work, pursuant to individual agreements between each of Landlord and Tenant and the chosen service providers. As such, Tenant and Landlord shall instruct their service providers to work cooperatively during the construction period in an effort to maximize efficiency and reduce the time frame between lease execution and the completion of all work at the Premises. If Landlord and Tenant cannot agree on final general contractor prior to expiration of the

Permit Period, then an amendment to the work letter will be needed.

Commented [MW1]: Because of City of Denver requirements, the Landlord cannot complete the scope in the workletter unless Tenant and Landlord use the same contractor. For example, the City will not allow a site contractor to bring the utilities to the building pad. Only the contractor completing the building can do that work. So we need to work together to use the same contractor.

SNDA:	Contemporaneously with the Lease execution, Landlord, Tenant and lender will agree upon and execute a SNDA in the form that shall be attached to the Lease. Tenant shall not be required to subordinate to any future lender unless Tenant receives a commercially reasonable non-disturbance agreement from such lender substantially similar or identical to that attached to the Lease. (Tenant is responsible for its legal expenses)
Environmental:	To be addressed in the Lease.
Assignment/Subletting:	Tenant shall not be required to seek or obtain Landlord's consent, nor shall Landlord be entitled to any consideration in connection with, any assignment or subletting: (1) to a parent, subsidiary, affiliate, bona fide Chipotle franchisee, licensee, or similarly related entity (2) in connection with a merger, acquisition, reorganization or consolidation; or (3) in connection with the sale of Tenant's corporate stock or assets (1), (2), and (3) are collectively, a "Permitted Assignment". No Permitted Assignment releases the originally named Tenant and Guarantor(s) or any party effecting the Permitted Transfer from Liability under the Lease All other assignments or subleases shall require Landlord's prior consent, not to be unreasonably withheld or conditioned. In all of the above scenarios, Tenant and Guarantor remain liable for performance under the terms of the Lease. Per Falcon lease, Article 18.
Go Dark:	After Tenant has opened for 1 day as a "Chipotle" restaurant, Tenant shall not be required to continuously operate at the Premises; however, Tenant shall continue to pay rent and other charges as the same become due. Should Tenant Go Dark in the Premises during the Primary Term for any reason other than a casualty or for remodeling (neither to exceed 180 days), Landlord shall have recapture rights with thirty (30) days written notice to Tenant and opportunity to re-open in the Premises. If Tenant does not re-open in the Premises within said thirty (30) day period, Landlord may terminate the Lease and receive from Tenant reimbursement for unamortized commissions. In no

event shall Tenant be required to operate on any major holidays recognized by Tenant, including but not limited to, New Year's Day, Easter Sunday, July 4th, Thanksgiving and Christmas.

Radius Restriction:	None.
Relocation:	Landlord shall not have the right to relocate Tenant.
Default:	1. Monetary default – Tenant must be given ten (10) days written notice and opportunity to cure. As further defined in the Lease. 2. Non-monetary default – Tenant must be given thirty (30) days written notice and opportunity to cure. As further defined in the Lease.
Indemnification:	Mutual indemnification to be addressed in the Lease.
Insurance:	Tenant shall have the right to self insure with respect to its insurance coverages. To be reviewed by Landlord's attorney in during the lease negotiations, net worth and other requirements will be required.
Brokers:	Kyle Underwood with Legend Partners, LLP is representing Tenant as Agent ("Tenant's Broker"), and Landlord shall pay a brokerage commission to Tenants Broker per a separate agreement to be paid 50% upon Lease Execution and waiver of contingencies and 50% upon Tenants opening for business. Tenant acknowledges principals of the Landlord are licensed real estate agents. Tenant acknowledges that Landlord or its related parties are licensed real estate brokers in the state of Colorado.
Landlord's Lien:	Landlord shall waive all statutory and/or contractual liens against Tenant's property.
Co-Tenancy Requirements:	None
Zoning, Parking, ADA:	To be addressed in the Lease Landlord shall provide four (4) non-exclusive take-out parking stalls located as close as possible to the front door of the Premises and exit of the Chipotlane. Tenant shall have the right at its expense to post Landlord approved signs on such parking spaces.
EV Charging:	The City of Denver requires this development to have Electric Vehicle Supply Equipment ("EVSE") infrastructure. Landlord

will procure and install required EVSE conduit per code requirements and the work letter as approved by Tenant on Landlord's Plans and Tenant will be responsible for procurement and installation of all EV charger wiring and EV charging units. Tenant shall also be responsible for its contract and all costs associated with any 3rd party vendor to install, operate, and maintain the actual EV chargers. Landlord shall not be responsible for any procurement, installation, or maintenance costs associated with any wiring or EV charging unit.

Utilities & Trash:	Landlord shall provide to the Premises adequate utilities required for Tenant's permitted use in accordance with Exhibit C as soon as reasonably possible after Tenant has received its building permit. Landlord shall be responsible for all utility hook-up, tap, impact, lateral, system development and other fees and costs pertaining to the utilities. However, Tenant acknowledges that Landlord will not be able to deliver the utilities as provided in Exhibit C until Tenant has received permit and initiated some of Tenant's Work to accept the utilities.. Landlord shall provide Tenant a credit per Exhibit C, for providing concrete pad and foundation to accommodate Tenant's trash dumpster enclosure for Tenant's -exclusive use in accordance with Exhibit C and Tenant shall contract independently for its trash removal service. Tenant shall be responsible for constructing the trash dumpster enclosure itself.
Signage:	Subject to applicable laws, Central Park Design Review Committee approval and the Comprehensive Signage Plan for the Shopping Center, Tenant shall be allowed to install standard "Chipotle" signage on its building and have the right to the Lot 10B panel outlined in red on Joint ID Sign A2- -A on Central Park Blvd and the panel outlined in red on Highway Sign A4, as shown on Exhibit "D" subject to paying its prorate share of the costs to design and construction this shared sign.
Landlord's Repairs/Maintenance and Tenant's Repairs/Maintenance:	None. Tenant will self-maintain the Premises (land and building) Per Falcon lease. Landlord shall be responsible for repairing and correcting any latent defects to the Premises when and as discovered by Tenant within one (1) year from the Possession Date..
Tenant's Trade Dress:	Subject to Landlord and all governmental approvals and after initial construction, Tenant shall be permitted to alter the exterior of the Premises to exhibit Tenant's trade dress. Tenant shall be allowed to incorporate its standard design and material elements in the store design and shall be allowed to relocate the existing

doors and incorporate its standard wide stile glass doors with wood handles or hollow metal doors in the Premises.

Alterations:	Tenant may, from time to time during the term of the Lease, make interior, non-structural alterations to the Premises without Landlord's consent, not to exceed $75,000.00.
Delivery of Landlord's Plans and other Deliverables:	*Tip to Landlord: Provide the items below ASAP for faster lease review and comments provided earlier rather than later in the lease negotiations.* Landlord shall deliver to Tenant, within five (5) days of the date of the execution of this letter, Landlord's CAD and blue-line drawings or Landlord's as-built drawings for the Premises. Tenant acknowledges that Landlord does not have fully approved drawings. Landlord shall also provide to Tenant within such five (5) day period copies of the most recent: (i) environmental and soils report, (ii) Owner's Title Insurance Policy, (iii) site survey showing the location of the Premises within the Center and (iv) any CC&R, REA, OEA, COREA, or other similar documents relating to the Shopping Center. Landlord shall furnish complete information regarding existing and proposed grades and locations, sizes, elevations, flow lines and pressures, as applicable, for all utilities mains which are to be extended to serve the Premises. Tenant shall work with Landlord so that Landlord can complete the utility deliveries after the Possession Date and after Tenant has initiated construction.
Tenant's Plans:	Tenant shall submit its plans and specifications for Tenant's initial improvements to Landlord for approval. Landlord shall approve or disapprove same (with specific reasons and instructions regarding any disapproved matters) within ten (10) days or the same shall be deemed approved.
Force Majeure	Any prevention, delay or stoppage due to strikes, lockouts, labor disputes, acts of nature, inability to obtain labor or materials or reasonable substitute therefor, governmental restrictions, regulations or controls, enemy or hostile governmental action, riot, civil commotion, fire or other casualty, Pandemic and Epidemics (as defined below) or other reason beyond the reasonable control of the party obligated for performance (financial inability excepted) (collectively, any "Force Majeure Event"), shall excuse the performance by such party for a period equal to any such

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Project No.
05-5119

Contents:
WORK LETTER

G003

prevention, delay or stoppage, except as otherwise stated in this Lease to the contrary. However, except as expressly set forth below, a Force Majeure Event shall not delay or extend the Rent Commencement Date or excuse the payment of any monetary obligation under this Lease.

FORCE MAJEURE SECTION PER ARTICLE 33 OF FALCON LEASE.

Lease Form: The Lease shall be on Tenant's form which will substantially conform to the Lease between Tenant and Evergreen-Meridian & Woodmen, L.L.C. ("Conforming Lease"), excepting site, deal, and LOI-specific items. .

This letter is intended to reflect the intention of the parties to enter into and document a business relationship. However, the parties agree that the terms and conditions set forth herein shall not constitute a final or binding agreement between them until a formal legal document has been prepared and executed by both parties. THIS LETTER IS NOT A CONTRACT.

If the foregoing is acceptable, please execute one of the enclosed copies of this letter where indicated below and return one (1) fully executed copy to me. Thereafter, Tenant's attorneys will prepare and forward to you a Lease draft for your review and approval.

We look forward to finalizing this transaction. Please call if you have questions.

Sincerely,

_____

Agreed and Accepted this ____ day of _____, 2023.

LANDLORD:

Runway 35 North, LLC

By: _____

Title: Principal Agent

TENANT:

By: Corey Jones

Title: Principal, Real Estate, Chipotle Mexican Grill, Inc.

EXHIBIT A – Site Plan- Please review LL site plan comments

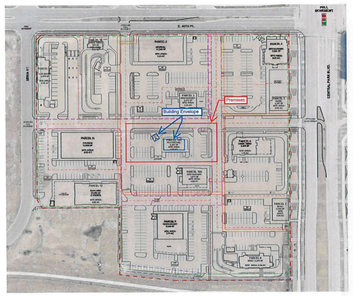


EXHIBIT C – LANDLORD WORK LETTER

Landlord shall complete the following work and furnish Tenant with certifications thereof and in accordance with the following **"Landlord's Work"**. Landlord shall be responsible for construction and completion of all site improvements around, to, and on the Premises as detailed in this Exhibit, Landlord's plans and Tenant's Utility Exhibit (PLEASE PROVIDE). Landlord's work shall include, but not be limited to the following, all plans and approvals (including site plan), as well as fees associated with said work. Tenant acknowledges that Landlord will not be able to deliver the utility connections and site improvements associated with the utility connections until after the Possession Date, and after Tenant has received building permit and provided utility improvements associated with the building constructions. In no event shall these items delay the Possession Date. Additionally, landscaping and irrigation improvements may be delayed due to seasonal planting timeframes. However, Landlord will provide surety for any of these improvements as required by the governmental authorities to ensure their ultimate completion.

GRADING

- Landlord shall demolish and remove all existing improvements on and under the Premises to include rock and deleterious materials.
- The building envelope ("Building Envelope") shall be accessible by grade level parking only; steps and stairs are not permitted.
- Upon completion of Landlord's Work, Landlord shall furnish to Tenant a surveyor's written certification stating that the Premises is at the elevation prescribed on the Civil Plans within the stated tolerance of plus or minus one-tenth of a foot. This certification shall be based upon an "as prepared" survey which shall accompany such certification and shall show thereon elevation shots taken on a 50-foot grid minimum including pad perimeter and building corners. Promptly upon completion of Landlord's Work, Landlord shall cause its surveyor or engineer to designate the corners of the land by means of standard surveying markers. Landlord covenants that the condition of the Premises shall not be altered between the date of such certification and the delivery of exclusive possession of the Premises to Tenant.

COMPACTION

- Landlord shall complete compaction of the Premises and Building Envelope in accordance with the appropriate engineering standards and building code requirements, so that the Building Envelope shall be graded within 1/10 of a foot of 6 inches below the finished floor grade elevation of Tenant's Building, or as per Landlord's grading plan as to enable Tenant to construct its improvements in accordance with its plans, with spread footings and without necessity of pilings or other extraordinary foundation work. The premises soil shall have a minimum bearing capacity of 2,500 pounds per square foot or per Landlord's geotechnical report. Tenant shall provide notice to Landlord of their FFE within 60 days of lease execution.

- No fill anticipated on this site. If fill is required, all fill material shall be of select grade per Landlord's geotechnical report, and sources for acquisition of fill material, as well as locations for cut material, must be identified.
- Landlord shall at its expense have an independent professional soils engineering test laboratory monitor the preparation of the Premises and, upon completion of Landlord's work, Landlord shall furnish Tenant a written certification from such independent laboratory verifying compliance with the foregoing requirements of this section. This certification shall include the results of all compaction and other tests performed prior to the date of such certification. A copy of such certification shall be delivered to the Tenant's construction representative.

UTILITIES

- Tenant shall provide for any temporary utilities for use by Tenant in its construction of the improvements.
- **Sanitary Sewer:** Subject to local codes and authorities, Landlord shall provide a 4" minimum sanitary sewer line stubbed from the main to five (5) feet inside of Tenant's Building Envelope, and includes a wye with connections to the building sewer and grease interceptor outfall at a location designated by Tenant per Tenant's Utility Exhibit attached as **Exhibit** C-1 ("Tenant's Utility Exhibit"). Said sanitary sewer lines shall have a minimum invert elevation of sixty (60) inches to a point as noted in Tenant's Plans. The exterior code-compliant grease interceptor shall be for Tenant's exclusive use. Grease interceptor shall be a minimum capacity of 1,500 gallons or sufficient to meet local code for Tenant's Use, whichever is greater. Invert of line as necessary to accommodate grease interceptor installation requirements of Tenant. Tenant acknowledges that Landlord's installation of the grease interceptor is subject to Tenant's Building Plan approval. in order for Landlord to install the grease interceptor. All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord.
- **Domestic Water:** Subject to local codes and authorities, Landlord shall install 1.5" domestic water service line from Landlord installed meter pit to Tenant's building envelope, at a location designated by Tenant per Tenant's Utility Exhibit. Said water line shall be copper with a minimum of 45 gpm at 60 psi. All related tap, impact, system development, fixture and/or any similar charges or fees shall be paid by Landlord for up to a 1.5 inch meter. Any costs above 1.5 inch meter shall be paid by Tenant. Tenant acknowledges that Landlord cannot deliver these improvements until after the Possession Date and Tenant has obtained its building permit and may need to complete some of Tenant's Work.
- **Irrigation Water:** Subject to local codes and authorities, Landlord shall furnish and install an irrigation water supply line routed to a location within the property as determined

by Landlord and Tenant in accordance with Landlord's plans for the property. Irrigation shall tee off the Domestic Water line on the building side of the water meter pit.

- **Fire Sprinkler Line:** Subject to local codes and authorities, If required and subject to Tenant timely securing its building permit, Landlord shall provide a Fire Sprinkler main line, as required by local code, connected to the public water main and stubbed five (5) feet inside of Tenant's Building Envelope at a location designated by Tenant per Tenant's Utility Exhibit. Fire Sprinkler main line shall be sufficient in size and water flow capacity to supply the Fire Sprinkler needs of Tenant's building. Any required detector check valves, vaults, post indicator valves, and siamese hose connections are to be included in Tenant's scope of work. Tenant acknowledges that Landlord cannot deliver these improvements until after the Possession Date and Tenant has obtained its building permit as Tenant must have building permit and may need to complete some of Tenant's Work.
- **Electrical:** Landlord has installed an electric main in drive aisle adjacent to Premises. Landlord shall reimburse Tenant up to $25,000.00 of the cost paid to Xcel for Tenant to provide an electrical transformer and transformer vault, with one (1) four (4) inch conduit and any required spares, with pull rope from the transformer to within five (5) feet of Tenant's Building Pad as shown on Tenant's Utility Exhibit. Tenant shall timely apply to Xcel and shall coordinate with Landlord during Landlord's construction Tenant shall be responsible for the secondary wiring from the transformer to the building. The transformer shall be capable of providing for a 400-amp, 120/208 volt, 3-phase, 4-wire service. Any related electric utility company charges shall be paid by Tenant and reimbursed by Landlord per above. In the event that a substantive off-site improvement to the electric infrastructure is required, Tenant shall immediately notify Landlord of that and Landlord shall resolve at Landlord's cost and expense. The cost to bring electric from the main adjacent to the site to the building pad shall not be considered an off-site improvement. If Tenant elects to have an all-electric building (i.e. no gas), then Tenant shall be responsible for a transformer capable of providing 800 amp, 120/208 volt, 3 phase, 4 wire service.
- **Natural Gas:** Landlord has installed a Natural Gas main in drive aisle adjacent to Premises. Tenant shall timely apply to Xcel and shall coordinate with Landlord during Landlord's construction. Tenant agrees to coordinate with Xcel to provide natural gas piping, from the public main line to the Building. Landlord will assist Tenant as needed. Landlord shall reimburse Tenant up to $20,000.00 of the cost paid to Xcel for Tenant to install Natural Gas service Gas piping shall be sized for Tenant's requirements at a minimum of 1600 MBH natural gas service at 7 inch water column. Gas piping shall terminate at the location of the gas meter as indicated by Tenant's Utility Exhibit. All related natural gas utility company charges related to providing the line shall be paid by Tenant and reimbursed by Landlord per above. If Tenant elects to only install Electric and not Gas, then the reimbursement limit for Gas shall be added to the Electrical, and the reimbursement for Electrical shall increase to $45,000 max and for Gas it shall decrease to $0.00. In the event that a substantive off-site improvement to the natural gas infrastructure is required, Tenant shall immediately notify Landlord of that and Landlord shall resolve at Landlord's cost and expense. The cost to bring gas from the main adjacent to the site to the building pad shall not be considered an off-site improvement.

Consultant:

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05-5119

Contents:

WORK LETTER

G004

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

A. Contractor shall use the following Tenant provided documents in the negotiation and execution of the Work. Contact Tenant's office for copies of these documents:
1. Chipotle Instructions to Bidders.
2. Construction Contract for Chipotle Mexican Grill.

B. Definitions:
1. The term "Owner" used in these documents refers to the building Owner/Landlord.
2. The term "Tenant" used in these documents refer to the restaurant Tenant, Chipotle Mexican Grill, Inc.
3. The term "Contractor" used in these documents refers to the entity responsible for performing the Work under Construction Contract for Chipotle Mexican Grill.

1.2 Scope of Work:

A. The Work shall include construction of the site and building facilities as shown and specified in these Specifications and Drawings.

B. When required and necessary, the Tenant will provide a subsurface exploration report as an attachment the bidding documents.

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

A. Immediately inform the Architect of discrepancies between the information indicated in the Contract Documents and existing project conditions, and of discrepancies between information indicated on the architectural, structural, mechanical, plumbing and electrical documents.

B. Prior to fabrication and installation of new components, field verify all existing and new dimensions and installation conditions that may affect the Work. Do not scale the drawings to establish locations of items that are not located using dimensions.
1. All dimensions are to rough face of stud or centerline of structure, unless otherwise indicated.
2. Verify that all Subcontractors have reviewed and coordinated locations of their equipment and furnishings exposed to view with the architectural drawings. Review questions with the Architect.

C. Coordinate new work indicated on the Contract Documents with new work that may be provided by the Owner and Tenant under separate contracts.

D. Coordinate the work of Vendors, Contractors and Subcontractors providing fixtures, furniture and equipment identified as "by Tenant" in these drawings and specifications.
1. Notify the Tenant in timely fashion if any problems develop with the performance of these Vendors, Contractors or Subcontractors.

E. Coordinate the scheduling, sequencing, and the work of all trades and Subcontractors to assure efficient and orderly sequences of installation of interdependent construction elements.

F. Verify that the utility requirement characteristics of operating equipment are compatible with the building utility services. Coordinate work of the various specification sections having interdependent responsibilities for installing, connecting to, and placing in service such equipment.

G. Coordinate the installation and physical space requirements of plumbing, mechanical and electrical work that are indicated diagrammatically on the drawings. Follow routing shown for piping, ducts and conduit as closely as practical. Install runs parallel with and perpendicular to the line of the building. Utilize spaces as efficiently as possible to maximize accessibility for other work installation and for maintenance and for repair.
1. Conceal piping, ducts and conduit within the construction, except as otherwise indicated.
2. Coordinate locations of registers, fixtures and outlets with finish elements.

H. Coordinate completion and cleanup work of all trades and Subcontractors in preparation for Substantial Completion.

I. To minimize disruption of Tenant's activities after Tenant occupancy of the property, coordinate access to the property with the Tenant's Construction Manager for correction of defective work and work not in accordance with the Contract Documents.

1.2 Submittals:

A. Only when indicated in the specifications or drawings submit shop drawings, product data, and/or samples to the Architect, Design Manager, and Development Analyst for review. All submittals shall be made directly to the Architect by the general contractor. Only submittals for specified products will be accepted unless prior approval has been obtained for a substitution (refer to Section 01630).

Shop drawings: Submit electronic copies of each sheet of drawings. Shop drawings are original drawings prepared by the subcontractor or vendor for the purpose of conveying information to the Architect and/or Engineer on how a building element or product will be constructed in sufficient detail for the Architect and/or Engineer to determine compliance with the design intent.

In all cases one copy of the submittal shall be returned to the General Contractor. Electronic submittals for shop drawing or product data in either PDF or DWF format are acceptable for review. All submittals, regardless of format, must bear the General Contractor's stamp indicating the submittal has been reviewed and approved. Any submittal not meeting the requirements set forth will be rejected by the Architect.

Submittals shall be made with respect to the construction schedule to allow for adequate review time: allow (5) business days for review of submittals for any structural steel, canopies and trusses and allow (3) business days for review of submittals in all other divisions. Review timeline will commence from the time the submittal with General Contractor's approval stamp is received by the Architect, Design Manager, and Development Analyst.

1.3 Requests For Information

A. In the event that the general contractor, or a subcontractor, at any tier, determines that some portion of the drawings, specifications, or other contract documents requires a clarification or interpretation by the architect, the general contractor shall submit a Request For Information in writing to the architect in an electronic copy.

Requests for Information may only be submitted by the general contractor and may only be submitted to the architect. The general contractor shall clearly and concisely set forth the issue for which clarification or interpretation is sought and why a response is needed from the architect or the architect's consultants. In the Request for Information, the general contractor shall set forth an interpretation or understanding of the requirement along with an explanation of why such an understanding was reached.

B. The architect will review all Requests for Information to determine whether they are Requests for Information within the meaning of this term. If the architect determines that the document is not a request for information, it will be returned to the general contractor, un-reviewed as to content, for re-submittal in the proper form and in the proper manner.

Responses to Requests for Information shall be issued upon receipt, but no later that five (5) working days of receipt of the Request from the general contractor; unless the architect determines that a longer amount of time is necessary to provide an adequate response. If a longer amount of time is determined necessary by the architect, the architect will, within five (5) working days of receipt of the Request, notify the general contractor of the anticipated response time. If the general contractor submits a Request for Information on an activity with five (5) working days or less of float on the current project schedule the general contractor shall not be entitled to any time extension due to the time it takes the architect to respond to the Request provided that the architect responds within the parameters set forth above.

C. Responses to Requests for Information from the architect will not change any requirements of the contract documents. In the event that the general contractor believes that a response to a Request For Information will cause a change to the requirements of the contract documents, the general contractor shall immediately give written notice to the architect and the tenant stating that the general contractor considers the response to be a Change Order. Failure to give such written notice immediately shall waive the general contractor's (or any subcontractor's) right to seek additional time or cost under the Administrative Requirements of these contract documents.

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

A. Perform all work in accordance with applicable local, state, and federal building codes, plumbing codes, mechanical codes, electrical codes, ordinances and rules and regulations governing food service establishments.

B. Comply with local, state and federal requirements governing accessibility.

C. Obtain all required demolition and erosion control permits required by authorities having jurisdiction.

1.2 Quality Control:

A. Maintain quality control over manufacturers, suppliers, products, services, site conditions and workmanship, to produce work of specified quality.

B. Comply with manufacturer's instructions and applicable trade standards.

C. Handle, install, connect, clean, condition and adjust products in strict accordance with manufacturer's instructions and complying with specified requirements.
1. Request clarification from the Architect before proceeding, where manufacturer's instructions conflict with the Contract Documents.

D. Comply with specified standards as a minimum quality for the Work, except when more stringent tolerances, codes or specified requirements indicate higher standards or more precise workmanship.

E. Perform work by persons qualified to produce workmanship of the specified quality. Secure products in place with positive anchorage devices designed, sized and installed to withstand stress, vibration, physical distortion or disfigurement.

F. All dimensions shall be considered "hold-to" dimensions unless indicated otherwise (e.g. minimum or maximum dimensions.)

1.3 Testing:

A. Employ and pay for the services of an independent testing laboratory to perform inspections, tests and other services when required.

B. Include inspection and tests as indicated in the specification sections, drawings, and as required by authorities having jurisdiction.
1. Test concrete in accordance with Section 03300 and drawing requirements.
2. Test structural steel in accordance with Section 05110 and drawing requirements.

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

A. Codes and Standards: Provide temporary construction facilities and controls complying with all applicable local, State and Federal local laws, regulations and codes and utility company requirements.

B. Temporary Heating, Ventilating and Cooling:
1. Provide, pay for and maintain all temporary heating, ventilating and cooling equipment and facilities required during the progress of the work to protect materials, finished work, and equipment against damage from low and high temperatures and humidity.
2. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to damage or affect in any way the performance or quality of material and product stored in the building, in any temporary storage area, or any material or product incorporated into the work.
3. Provide temporary heating, ventilating and cooling when the outside temperature and humidity is low/high enough to significantly slow or hamper effectiveness of workers and to provide suitable working conditions.

C. Temporary Electrical Lighting and Power:
1. Provide, pay for and maintain all temporary electrical service for lighting and power required during the progress of the work. Include all necessary wiring, fuses, disconnect switches, safety devices, junction boxes, panels, ground fault protections, and transformer if required. Include cost for providing temporary electric generators in the Contract Sum, if temporary electric service is not available for use during progress of the work.
2. Temporary service and lighting and power items and installations shall conform to the requirements of the NFPA National Electric Code and OSHA Occupational Safety and Health Act of 1970.

D. Water: Provide, pay for and maintain all temporary water required during the progress of the work. Include all necessary storage tanks, piping, valves, fittings, hose and hose connections during construction and testing.

E. Temporary Toilets: Provide, pay for and maintain temporary toilet facilities for use by the Contractor, Contractor's employees and all Subcontractors and Subcontractors' employees. Comply with all local requirements for installation, use and maintenance of temporary toilet facilities.

F. Barriers and Enclosures:
1. Provide temporary construction barriers in accordance with project requirements. Exercise all necessary precautions to protect adjacent properties, outside project contact limits, during progress of the work. Take special precautions to avoid damage to existing overhead and underground utilities and services owned or operated by the Owner or by public or private utility companies.
2. Provide temporary weather-tight enclosures at exterior openings to provide acceptable working conditions and protection of materials and to allow for temporary heating, ventilating and cooling.

G. Field Office, Telephone and Email:
1. Provide and maintain a temporary field office at the project site during progress of the work. A designated area within the existing building will be available for use as a temporary field office. Verify area size and location with the Tenant.
2. Maintain copies of permits, approved shop drawings, specifications, addenda and record documents at field office.
3. Provide temporary telephone service and internet service with email and photo capabilities to field office throughout progress of the work.
4. Provide weekly photographic documentation of project progression to Tenant.

H. Safety and Security
1. Provide and maintain all necessary safety provisions for protection and safety of the project work, workers and general public.
2. Provide and maintain operable fire extinguishing devices in well-marked, accessible locations throughout the project. Provide types, quantities and locations in compliance with governing codes and ordinances.
3. Provide all necessary security barriers and enclosures to protect the work and Tenant's operations from unauthorized entry of persons, vandalism and theft. Provide doors, when required, with self-closing hardware and locks.

I. Cleaning
1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
   a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.

2. Dust Control:
   a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
   b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
   c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

A. Products, including materials, equipment and systems described in the Contract Documents establish the standards of required function, dimension, appearance, quality and performance of the Work. Base all bids on the "Standards" indicated.

B. Requests by the Contractor for changes in products, manufacturers, fabricators, suppliers, installers, and methods of construction required by the Contract Documents are considered requests for "substitutions." Substitutions will be considered only under the following conditions:
1. The indicated "Standard" cannot be provided within the Contract Time
2. The indicated "Standard" cannot receive necessary approval by the governing authority.
3. A substantial advantage is offered the Owner, in terms of cost, time, energy conservation or other considerations of merit as determined by the Architect.

C. Submit each request for substitution to the Architect. Identify the product, manufacturer, fabricator, supplier, installer or the fabrication or installation method to be replaced in each request. Identify related Specification Section and Drawing numbers. Provide documentation as directed by the Architect.

D. Substitutions will not be considered when indicated on shop drawings or product data submittals without separate written request, when requested directly by subcontractor, manufacturer, fabricator, or supplier, or when acceptance will require substantial revision of the Contract Documents.

E. Substitute products, manufacturers, fabricators, suppliers, and installers shall not be used for the Project without Tenant and Architect's written acceptance.

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

A. Protection of existing construction: Use all necessary care and appropriate means and methods to protect and prevent damage to existing construction and property not part of the Contract Work. Repair and refinish or replace construction an property damaged during construction work, at Contractor's expense.

1.2 Selective Demolition: Provide selective demolition as shown and specified.

A. Preparation:
1. Coordinate work of this Section with work of various Contractors and Tenant's staff.
2. Maintain protected access at all times.
3. Erect and maintain weatherproof closures at exterior openings.
4. Erect and maintain dust-proof interior partitions to prevent spread of dust or fumes.
5. Erect and maintain barricades, enclosures, bracing, shoring, lights, warning signs and guards necessary for worker and public safety and protection of property.
6. Disconnect, remove and cap designated utility services. Identify and mark locations of disconnected and capped utilities at the project site and on Project Record Documents.
7. Notify and coordinate with the Tenant's Construction Manager and the building Owner for any demolition occurring outside the lease limit.
8. Coordinate hours of operation and construction access with the Tenant's Construction Manager and the building Owner.

B. Selective Demolition
1. Remove existing construction to accommodate new construction as indicated.
2. Perform selective demolition in an orderly, systematic and careful manner with least possible disturbance to public and adjacent property. Use of explosives is prohibited.
3. Immediately remove from the site and legally dispose of demolished materials, except as indicated otherwise. Do not burn or bury materials on the project site.

1.3 Cleaning

A. Final Cleaning: Perform final cleaning upon completion of project work.
1. Remove waste and surplus materials, rubbish, tools, equipment and temporary construction facilities from the site.
2. Clean exterior grounds; remove stains, spills and foreign materials from paved areas, power wash and sweep clean. Rake clean landscaped surfaces of the grounds.
3. Remove temporary protection and labels not required to remain.
4. Clean all finished surfaces. Remove grease, mastic, adhesives, dust, dirt, stains, fingerprints, labels and other foreign materials from exposed interior and exterior surfaces.
   a. Clean all plumbing, fire protection and electrical fixtures and equipment including ceiling area elevated ductwork and lighting fixtures.
   b. Clean permanent equipment filters and replace temporary disposable filters in mechanical units used during construction.
   c. Clean ducts, blowers and coils if mechanical units were operated without filters during construction.
5. Clean interior and exterior glazing and mirrors, polish transparent and glossy surfaces and clean floors with appropriate materials and equipment.
6. Remove waste, foreign material and debris from roofs, areaways and drainage systems.
7. Before Tenant occupancy, conduct an inspection, with the Tenant, of exposed interior and exterior surfaces at all work areas, to verify that the entire work is clean.

1.4 Starting and Adjusting:

A. Prior to Substantial Completion, coordinate the start-up, test and balance, placement in operation and adjustment all systems, controls and equipment to verify proper operation. All systems shall be complete and operating prior to final inspection.

1.5 Contract Closeout:

A. Operation and Maintenance Data: Submit one operation and maintenance manual, bound in 8-1/2" x 11" text pages, three D side ring capacity expansion binders with durable plastic covers.
1. Subdivide the binder contents internally with permanent dividers logically organized as described below. Provide tab titles clearly printed under reinforced laminated plastic tabs.
2. Provide a table of contents with each product or system description identified.
3. Provide a directory listing names, addresses, and telephone numbers of the project Architect/Engineer, Contractor, Subcontractors and major equipment suppliers.
4. Prepare operations and maintenance instructions arranged by system and subdivided by specification section. Identify names, addresses, and telephone numbers of project Subcontractors and suppliers. For each category, identify the following:
   a. Significant design criteria.
   b. List of equipment.
   c. Parts list for each component.
   d. Operating instructions.
   e. Maintenance instructions for each equipment item and systems.
   f. Maintenance instructions for special finishes, including recommended cleaning methods and materials and special precautions for identifying detrimental agents.
5. Submit operations and maintenance data to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

B. Record/As Built Documents:
1. Prepare and maintain on site one set of the following record/as built documents:
   a. Contract Documents.
   b. Construction Documents.
   c. Change orders and other modifications to the Contract.
   d. Shop drawings, product data, and samples.
   e. Construction schedule.
2. Store record/as built documents separate from documents used for construction.
3. Record actual revisions to the Work, concurrently with construction progress.
4. Legibly mark and record a description of actual products installed at each specification section, including the following:
   a. Manufacturer's name and product model and number.
   b. Approved product substitutions or alternates utilized.
   c. Changes made by addenda, change orders, and other modifications.
5. Legibly mark each item to record actual construction, including the following:
   a. Measured depths of foundations in relation to finish first main floor datum.
   b. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
   c. Measured locations of internal utilities and appurtenances concealed in construction, referenced to visible and accessible features of the work.
   d. Field changes of dimension and detail.
   e. Details not on original Contract Document drawings.
6. Submit record/as built documents to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

C. Warranties and Bonds:
1. Compile warranties and bonds required by the Contract Documents.
2. Submit duplicate copies of warranties and bonds to the Tenant with final application for payment in accordance with Exhibit C of the Construction Contract.

D. Maintenance Materials and Spare Parts:
1. Provide extra maintenance materials and spare parts in quantities indicated in the specification sections.
2. Place in location as directed by the Tenant's Construction Manager.

DIVISION 2 - SITE CONSTRUCTION

1.1 General: Provide site construction work, including services, utilities, earthwork, paving and landscaping in accordance with the site construction work drawings and details.

2.1 Materials:

A. Stencils for pavement markings: Pavement Stencil Comapny, P: (800) 250-5547, stencils@pavementstencil.com

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

1.1 General: Provide cast-in-place concrete work in accordance with the General Structural Notes, structural drawing and details. Follow shell building documents for specifications, joints and geotech.

A. Standards: Materials and construction shall conform to the following:
1. ACI 117 "Standard Tolerances for Concrete Construction and Materials."
2. ACI 301 "Structural Concrete for Buildings."
3. ACI 305R "Recommended Practice for Hot Weather Concreting."
4. ACI 306R "Recommended Practice for Cold Weather Concreting."
5. ACI 315 "Details and Detailing of Concrete Reinforcement."
6. ACI 318 "Building Code Requirements for Reinforced Concrete."

2.1 Materials:

A. Under Slab Vapor Retarder: Stego Industries LLC, 877-464-7834, internet www.stegoindustries.com high density polyethylene Stego Wrap (10 mil) Vapor Barrier meeting or exceeding ASTM E1745 performance criteria for Class C vapor retarders.
1. Seam Tape: High density polyethylene tape with pressure sensitive adhesive.
2. Pipe boots: Shop or site fabricated from vapor retarder material and seam tape.

B. Concrete:
1. Portland Cement: ASTM C150, Type I
2. Aggregate: ASTM C33.
3. Water: Clean and potable.
4. Reinforcement: When required, comply with drawings reinforcement requirements.
5. Compressive Strength: Minimum 3000 psi at 28 days.
6. Admixtures: All admixtures shall be approved by the Tenant's Construction Manager prior to placement in the concrete mix.

C. Topping Concrete: When required to suit installation conditions, Ardex Diama-Top of Ardex Engineered Cements (888) 512-7339, internet www.ardex.com
1. ULTRAFLOR ARDEX DIAMA-TOP, self-leveling concrete repair material.
2. Any pinholes that need to be filled shall be filled with ARDEX DIAMA-FILL filling compound for polished concrete, concrete terrazzo and other cementitious wear surfaces applied at the appropriate time during the polishing process.
3. The primer for areas to receive ARDEX DIAMA-TOP will be ARDEX EP 2000 Substrate Preparation Epoxy.
4. Installation shall be performed by factory-trained professional applicators in strict accordance with manufacturer's installation instructions.

3.1 Installation

A. Vapor Retarder: Place, protect and repair vapor retarder sheets in accordance with ASTM E1643 and manufacturer's installation instructions.
1. Provide a single layer of vapor retarder material over level compacted slab base.
2. Lap joints and seams 6 inches and seal with seam tape.
3. Seal all penetrations and repair damaged areas before concrete placement.

B. Reinforcement Place and inspect all reinforcing steel before concrete is placed.

C. Concrete Placement:
1. Place cast-in-place concrete in accordance with ACI 301 and ACI 305R and 306R recommended practices for hot weather and cold weather concreting. Do not place concrete when temperature is below 40 degrees F.
2. Wet cure concrete in accordance with ACI 301, using moist curing or moisture-retaining covers

D. Finish: Except where additional floor finish is scheduled, provide a smooth steel trowel finish.
1. Exposed concrete used as a finish floor surface shall have a smooth finished surface, uniform in texture and appearance and free of trowel marks and other defects affecting ease of maintenance.
2. Grind smooth surface defects as directed by the Tenant's Construction Manager.

E. Testing: When required, comply with drawings and specification sections testing requirements.

F. Topping Concrete: Prepare concrete floor slab substrate surfaces, prime substrate surfaces, mix, install and finish topping concrete in accordance with manufacturer's application instructions.

SECTION 033600 - RESINOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

A. Performance Requirements: Provide resinous flooring that has been manufactured and installed to maintain performance criteria stated by manufacturer without defects, damage or failure.
B. Alternate Flooring Options as approved by CMG DM: AlFlooring TerraQuartz (color: salt & pepper) -or- AlFlooring TerraSeal (color: medium grey)

1.3 Quality Assurance:

A. Qualifications:
1. Installer Qualifications: Installer experienced in performing work of this section who has specialized in installation of work similar to that required for this project.
   a. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
   b. Contractor shall demonstrate the ability to undertake and complete the required work and furnish documentation regarding the successful completion of projects of similar size and complexity.
2. Manufacturer Qualifications: Manufacturer shall be capable of providing technical support, qualified applicators, and approval of application methods.

B. Pre-installation Meetings: Conduct a pre-installation meeting to verify flooring system specifications (color, texture, etc.), substrate analysis, and manufacturer's installation instructions.

C. Pre-installation Testing: Conduct pre-installation testing as follows:
1. Water Vapor Transmission: Calcium Chloride tests should be conducted to determine the amount of water vapor coming through the slab. The results should be compared to limitations set forth by the manufacturer.
2. Core Sample Testing: (optional) Core samples should be taken and analyzed if the installer believes there to be a problem with the integrity of the substrate that may affect flooring system performance.

1.4 Delivery, Storage & Handling:

A. Ordering: Comply with manufacturer's ordering procedures and allow for enough lead-time for custom blends so as not to interfere with construction schedules.

B. Delivery: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

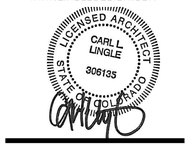
C. Storage and Protection: Store materials where they are protected from direct sunlight and harmful weather conditions. Meet manufacturer's condition for temperature, humidity, etc.

1.5 Project Conditions:

A. Environmental Requirements/Conditions: Substrate and ambient air temperatures shall be in accordance with manufacturer's requirements.

B. Temperature Requirements: Maintain air temperature in spaces where products will be installed for time period before, during and after installation as recommended by manufacturer.

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
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05-5119

Contents:
ARCHITECTURAL SPECIFICATIONS

G010

2.1 Materials:

A. Resinous Flooring: Manufacturer: aiflooring
   1. Contact: 1218 West 41st Street, Suite B, Tulsa, Oklahoma 74107. Phone: 918-445-0627

2.1 Flooring System:

A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance.
   1. TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating.
   2. TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat.
   3. TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance.

2.3 Product Substitutions:

A. Substitutions: No substitutions permitted.

2.4 Source Quality:

A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer.

3.1 Manufacturer's Instructions:

A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions.

3.2 Examination:

A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions.
   1. Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials.

3.3. Preparation:

A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation.

B. Surface Preparation:
   1. Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding.
   2. Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations.
   3. Prepare and clean control joints well and fill with an appropriate elastomeric.

3.4 Installation:

A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer.
   1. Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations.
   2. Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application.
   3. Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling.

B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris.

3.5 Protection:

A. Protection: Protect installed product and finish surfaces from damage during construction.

SECTION 03395 - CONCRETE SEALING AND POLISHING

1.1 General: Provide a sealed and polished concrete floor finish as shown and specified.

A. Standards
   1. American Society for Testing and Materials:
      a. ASTM-C779, Standard Test Method for Abrasion Resistance of Horizontal Concrete Surfaces.
      b. ASTM G23-81, Ultraviolet Light & Water Spray
      c. ASTMC805, Impact Strength
   2. American Concrete Institute
      a. ACI 302. 1R-89, Guide for Concrete Floor and Slab Construction

B. Submittals: Provide the following:
   1. Manufacturer's product data, specifications and installation instructions. Include Material Safety Data Sheets (MSDS) and identify application requirements, curing time and safety requirements.
   2. Certified test reports, prepared by an independent testing laboratory, confirming compliance with performance criteria.
   3. Manufacturer's certification that installer is a certified applicator of special concrete floor finishes, and familiar with manufacturer's installation procedures and requirements for the specified sealed and polished concrete floor finish.
   4. Manufacturer's and installer's written acceptance of substrate surface and installation conditions.

C. Quality Assurance:
   1. Installer Qualifications:
      a. Use a certified installer and adequate number of skilled workmen who are thoroughly trained and experienced in the necessary craft.
      b. The special concrete finish manufacturer shall certify the applicator.
      c. Applicator shall be familiar with the specified requirements and the methods needed for proper performance of work of this section. Applicator shall have not less than three years successful experience installing sealed and polished floor finishes similar to those required for this project.
      d. Provide a letter of certification from special concrete finish manufacturer stating that installer is a certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.
   2. Protection: Contractor shall provide all necessary materials, means, methods and procedures acceptable to the floor finish manufacturer and required to protect the concrete floor surface and provide a suitable substrate for the installation of the specified sealed and polished concrete floor finish.

D. Project Conditions:
   1. Comply with the floor finish manufacturer's environmental limitations for substrate temperature and moisture content, ambient temperature, and humidity, ventilation and other conditions affecting the special floor finish performance.
      a. Concrete must have an average Floor Flatness rating of at least 40.
      b. Concrete must have an average Floor Levelness rating of at least 40.
      c. Concrete must be cured a minimum of 28 days or as directed by the manufacturer before application of RetroPlate can begin. Wet cure of the concrete is preferred. No concrete sealer is necessary.
      d. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.
   2. Before general sealer/hardener application, prepare and coat a jobsite test area of size acceptable to the Architect, to verify and approve proper surface preparation, application techniques and coverage rate.
   3. Close finished floor areas to traffic during floor finish application and after application for time period directed by the floor finish manufacturer.
   4. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.

2.1 Materials

A. Hardening/ Sealing Agent
   1. RetroPlate 99 manufactured by Advanced Floor Products Inc. (801) 812-3420 www.retroplatesystem.com
   2. RetroGuard Stain Inhibitor
   3. Joint Filler: CreteFill Pro 75. Two component 100% solids non-staining Polyurea Elastomer.
   4. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100% solids.
   5. Coefficient of friction for Retroguard finish shall not be lower than .40.
   6. Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com

3.1 Installation

A. Surface Conditions
   1. Examine substrate, with installer present, for conditions affecting performance of finish. Correct conditions detrimental to timely and proper work. Do not proceed until unsatisfactory conditions are corrected.
   2. Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above.
   3. Prior to application, verify that floor surfaces are free of construction latents.

B. Application
The following RetroPlate process will be followed as listed below:
A concrete grinding machine must be used. Please proceed accordingly. The process is as follows:
   1. Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab.
   2. Clean the floor using automatic scrubber or comparable.
   3. Grind floor using 200 grit resin diamonds.
   4. Clean the floor using automatic scrubber or comparable.
   5. Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes.
   6. Grind floor using 400 grit resin diamonds.
   7. Clean the floor using automatic scrubber or comparable.
   8. Clean and remove any excess RetroPlate. Let the floor dry overnight.
   9. Continue the polishing process using 800 grit resin diamonds.
   10. Clean the floor using automatic scrubber or comparable.
   11. Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds.
   12. Clean the floor using automatic scrubber or comparable.
   13. The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate.
   14. Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad.
   15. Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard.

C. Start any of the floor finish applications in presence of manufacturer's technical representative.

D. Sealing, Hardening and Polishing of Concrete Surface
   1. Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin.
   2. Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application.
   3. Only a certified applicator shall apply RetroPlate 99. Procedures must be followed as recommended by the product manufacturer and as required to match approved test sample.
   4. Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen.
   5. Polish to a level 2 shine.

E. Workmanship and Cleaning
   1. The premises shall be kept clean and free of debris at all times.
   2. Remove spatter from adjoining surfaces, as necessary.
   3. Repair damages to surface caused by cleaning operations.
   4. Remove debris from jobsite
      a. Dispose of materials in separate, closed containers in accordance with local regulations.

DIVISION 4 - MASONRY

SECTION 04810 - UNIT MASONRY ASSEMBLIES

1.1 General: Provide unit masonry assemblies as shown and specified.

A. Standards: Materials and construction shall conform to the following:
   1. ACI 530.1-02/ASCE 6-02/TMS 602-02 "Specifications for Masonry Structures."
   2. NCMA "TEK Bulletins."
   3. BIA "Technical Notes on Brick Construction."

2.1 Materials:

A. Concrete Masonry Units (CMU): Size and thickness as shown on drawings.
   1. ASTM C 90, load-bearing, normal weight, natural color CMU, properly cured at time of delivery, linear shrinkage not to exceed 0.065%.
   2. Provide special shapes where required.
   3. Provide exterior wall CMU containing an integral polymeric water-repellent admixture.
      a. Manufacturer: W. R. Grace "Dry-BlockR System Block Admix ".

B. Face Brick:
   1. Manufacturer:
      a. Summit Brick Company
   2. Type: "Face Brick C216" complying with ASTM C216, Grade SW, Type FBS. No efflorescence when tested in accordance with ASTM C67.
   3. Size: Modular size, laying three courses to 8" vertically.
   4. Color: "Light Pewter" or "Fossil Gray" as noted on Exterior Elevations
   5. Provide special shapes where required.

C. Mortar Materials:
   1. Portland cement: ASTM C150, Type I or III, gray.
   2. Masonry cement: ASTM C91, Type indicated, gray.
   3. Aggregate: ASTM C144, clean masonry sand.
   4. Water: Clean, fresh and potable.
   5. Provide all exterior wall masonry mortar containing an integral polymeric water-repellent admixture.
      a. Manufacturer W. R. Grace, "Dry-BlockR Integral Water-Repellent Mortar Admixture".

D. Unit Masonry Mortar Mixes: ASTM C270 proportions by volume.
   1. Face brick: Type N mortar.
   2. Dye:
      a. Gray color from manf std Solomon Grind Services (Fossil Gray & Light Pewter)
      b. Gray color from manf std Spec Mix (Fossil Gray & Light Pewter)

E. Reinforced Unit Masonry Grout Mixes
   1. Concrete fill: ASTM C94 3,000 psi concrete.

F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized
   1. Manufacturer: Hohman & Barnard, INC.
   2. Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.
      a. Single Wythe masonry: Standard single 9 gage side and cross rods. H&B - #220 Ladder-Mesh.
   3. Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.
      a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.
      b. CMU to structural steel: H&B - VBT - Vee Byne-Tie With Plain Steel (Tie) Used In Conjunction With H&B #359 Weld-on Ties (Anchor Rods).
   4. Masonry Veneer To Wood Framing: H&B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.
      a. Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.
   5. Seismic Masonry Veneer to Wood Framing: (When Required) H&B Seismic Plate Pintle HB-213S with HB-213 (T-Lok Tie)
      a. Fasteners: Seld-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.

G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.
   1. Termination Mastic: W.R. Grace "Bituthene Mastic."
   2. Primer: W.R. Grace "Bituthene P-300 Primer."
   3. Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.

H. Accessories
   1. Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.
   2. Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer.
   3. Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010.
   4. Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.
   5. Cleaning agents:
      a. Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners."
      b. ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner."
   6. Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.

3.1 Installation

A. Preparation
   1. Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.
   2. Lay concrete masonry units dry.
   3. Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed
   4. Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.

B. Installation - General:
   1. Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.
   2. Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.
   3. Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.

C. Laying Masonry
   1. Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.
   2. Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.
   3. Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.
   4. Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.
   5. Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.
   6. Compress and cut joints flush for masonry walls below grade or covered by other materials.
   7. Tool joints in all exposed masonry work to a concave joint.
   8. Provide interlocking masonry bond in each course at corners and intersecting walls.
   9. As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.
      a. Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.
      b. Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.
      c. Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.
      d. Install anchors, plates and related work built into masonry work.
      e. Install reinforcing steel and concrete fill where indicated. Comply with drawing details.
   10. Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:
      a. In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.
      b. Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.
      c. Fully embed side rods in mortar.
   11. Anchoring masonry work: Provide anchoring devices of the type indicated or required.
   12. Provide vertical expansion, control and isolation joints in masonry where indicated.
      a. When not indicated, at maximum 30'-0" on center.
      b. Locate control joints at points of natural weakness in masonry and acceptable to Architect.
      c. Joint sealant color shall match masonry materials sealed.
   13. Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.
   14. Flashing and weeps:
      a. Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.
      b. Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.
      c. Flexible Membrane Flashing:
         1.) Install membrane flashing in accordance with manufacturer's installation instructions.
         2.) Fully adhere flashing to substrate.
         3.) Lap flashing joints a minimum of 6", seal and roll with a hand roller.
         4.) Trim bottom edge 1/4" back from exposed face of masonry.
         5.) Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.
   15. Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.
   16. Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.

D. Masonry Veneer Walls:
   1. Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.
   2. Space ties 16" on center vertically and horizontally.
   3. Maintain veneer wall cavity free of mortar droppings during masonry installation.

E. Parging:
   1. Dampen masonry walls prior to parging.
   2. Scarify each parging coat to ensure full bond to subsequent coat.
   3. Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).
   4. Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).

F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:
   1. Draw ACMU from more than one pallet at a time during installation.

G. Reinforced Concrete Masonry
   1. Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
      a. Comply with drawing details for reinforcing steel size and spacing.
   2. Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.

H. Repair, Pointing and Cleaning
   1. In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.
   2. Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.
   3. Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
   4. Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.
   5. Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.
   6. Muriatic acid cleaning of masonry not permitted.

I. Architectural Concrete Masonry:
   1. Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.
   2. Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.
   3. After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.

DIVISION 5 - METALS

SECTION 05120 - STRUCTURAL STEEL

1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
   2. AISC "Code of Standard Practice."
   3. AWS "Structural Welding Code, D1.1-Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.

C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.

D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.

E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.

F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.

G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.
   1. Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.
   2. Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform splicing by full penetration butt-welding using AWS qualified welders and welding methods.
   3. Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.

3.1 Installation:

A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".
   1. Plumb, level and align base plates for structural members with steel shims.
   2. Grout structural steel base plates solid that bear on concrete or masonry surfaces.

B. Testing: When required, comply with drawings testing requirements.

SECTION 05400 - COLD-FORMED METAL FRAMING

1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.

A. Standards: Materials and construction shall conform to following:
   1. AISI SG02.2-01 "Design of Cold-Formed Steel Structural Members."
   2. AWS "Structural Welding Codes, D1.3-Sheet Steel."

2.1 Materials:

A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.

B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.
   1. Components: Provide sizes and shapes indicated.
   2. Finish: Galvanized complying with ASTM A653, minimum G60 coating.

C. Fabrication:
   1. Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.
      a. Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.
   2. Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.
   3. Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.
   4. Saw cut field cut framing. Torch cutting not acceptable.

3.1. Installation:

A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.

B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.

SECTION 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

A. Submit shop drawings for the following:
   1. Patio Rail systems.
      a. Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
      b. Show true profiles, connections and relationship to adjoining work and methods of anchoring.

2.1 Materials

A. Materials compliance: When requested, submit acceptable data documenting materials compliance.

B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.

C. Stainless Steel:
   1. Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.

D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
   1. Wall: Bright reflective finish.
   2. Floor: Mil finish.

E. Patio Railing System
   1. Submit shop drawings including the following:
      a. Show thickness, size, construction and welding, as well as assembly drawings.
      b. Show true profiles, connections of all typical joint configurations
      c. Show installation (fastening) and proposed grout (non-gypsum base)
      d. Show gate detail and gate hardware manufacturer and model number
      e. Patio railing plan, with dimensions and panel assembly locations.
   2. Fabrication
      a. Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
      b. Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.
      c. Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
      d. Gate stop shall have a rubber cushion stop and be affixed to the active gate.
      e. All corners and joints shall be seal welded and outside joints ground smooth.
      f. All welding spatter shall be removed before sand blasting.
   3. Finish
      a. Patio railing shall be painted PPG Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.

F. Exposed Fasteners:
   1. Diamond Plate: #8 x 1" bevel headed stainless steel screw.
   2. Patio Railing:
      a. All fasteners shall be stainless steel and powder coated to match railing sections.
      b. Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers
      c. Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

G. Shop paint primer: Refer to Section 09900 - Paints and Coatings

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ARCHITECTURAL SPECIFICATIONS

G011

3.1 Installation: Comply with the Architectural Drawing details and the following:

A. Exposed Fasteners:
1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.

B. Stainless Steel:
1. Wall:
a. Clean stainless steel panel with mineral spirits.
b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
c. Trim seams as indicated on the Drawings. No exposed fasteners.

C. Diamond Plate:
1. Wall: Mount over plywood substrate w/ flush exposed fasteners.
2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.

D. Patio Railing System:
1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter
2. Railing posts shall be grouted in using non gypsum quick set grout.
3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.

E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

1.1 General: Provide rough carpentry work as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. NIST PS-1-95 "Construction and Industrial Plywood."
2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
3. NIST PS-20-99 "American Softwood Lumber Standard."
4. NF&PA NDS-97 "Wood Construction and Supplement."
5. AWPA "Wood Treatment Standards."

2.1 Materials:

A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated.
1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
a. Provide preservative treated lumber, where indicated.

B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
1. APA-RATED SHEATHING EXP1.
a. Provide Exterior Grade (EXT) plywood, where indicated.
b. Provide fire-retardant treated plywood, where required by Building Code.

C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick

2.2 Wood Treatment:

A. Preservative Treatment: Comply with applicable requirements of AWPA Standards C2 (Lumber).
1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
2. Treat wood blocking, nailers and similar members in connection with roofing and flashing.
3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.

B. Fire-Retardant Treatment: Comply with applicable requirements of AWPA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.

C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

3.1 Installation:

A. Lumber: Provide wood blocking, nailers and similar members where shown and where required for attachment of other work and surface applied items. Attach to substrate as required to support applied loading.
1. Use only sound, seasoned materials of longest practical lengths and sizes to minimize joints.
2. Use materials free of warp. Make tight connections between members.

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

1.1 General: Provide finish carpentry and millwork as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. AWI "Architectural Woodwork Quality Standards - 1999."

B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections.

C. Submit shop drawings for designated millwork.
1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details.
2. List proposed cabinet hardware to suit indicated unit use or function.
3. Identify materials required to complete work ready for installation.
4. Obtain shop drawing approval before starting fabrication.

2.1 Materials:

A. Plywood: AWI Section 200
1. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. (OSB is an alternative as allowed by Chipotle CM)
2. Exposed to view finishes:
a. Random plank matched or slip and swing matched spalted maple veneer on 3/4" baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally .5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 95".
b. 3/4" Rice Straw MDF panels (by Eureka) with digitally printed spalted maple artwork. UV white primer used on front side for printing process, and clear UV cured topcoat covers the front and backside of the panels. Panels are cut to 47" x 95" on CNC and have 7 artwork options. Similar printing process on 3/4" baltic birch core for trash surround doors.

B. Millwork: Materials and construction as detailed on the Drawings.

C. Fabrication:
1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings.
2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option.
3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place.
4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects.
5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work.

D. Finish:
1. Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer
2. Perfecta UV-Cured topcoat for panels with printed artwork.

3.1 Installation

A. Install finish carpentry and millwork products plumb, level, true and straight with no distortion. Shim as required using concealed shims. Install to a tolerance of 1/8" in 8'-0" for plumb and level (including countertops) and with 1/16" maximum offset in flush adjoining surfaces, 1/8" maximum offsets in revealed adjoining surfaces.
1. Scribe and cut finish carpentry and millwork products to fit adjoining work.
2. Anchor finish carpentry and millwork items to built-in place blocking, furnished under Section 06100, or directly attach to substrate framing. Secure to grounds, blocking and nailers with countersunk, concealed fasteners and blind nailing as required for a complete installation.
3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines:
a. Nailer to be set for countersunk head approximately 1/8" on the face.
b. Use 16 ga straight finish nails in 2" length
c. Provide "dab" of construction adhesive on backside of panels at regular intervals.
d. Random placement preferred, do NOT group nails together.
e. No nails closer than 2" from any edge.
f. All nails to be no greater than 16-18" apart in any direction.
g. When using digital printed MDF panels, plan the layout so adjacent panels do not have the same artwork.
4. Touch-up shop finished materials marred or damaged during delivery, storage and installation:
a. For spalted veneer panels, use custom blended polyurethane to equal Minwax "Wipe on Poly".
b. For printed artwork panels, buff with dry cloth for smudges, use lint free cloth for dust, and forliquids use cloth or sponge to absorb liquid (do not wipe) then use water saturated soft cloth with a small amount of mild soap to wipe surface clean, buff with dry cloth to remove streaks.

B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation.

C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

1.1 General: Provide fiberglass reinforced plastic panels as shown and specified.

2.1 Materials:

A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com

B. Panel System: 'P6' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation.
a. Inside Corner - M350
b. Outside Corner - M360
c. Division - M365
d. Edge - M370
2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation.
3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

C. Panel System: 'P2' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact.
1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation.
a. Edge - M370
2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant.
3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces.

D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture

3.1 Installation

A. Install the FRP system products using panel adhesive in accordance with the manufacturer's instructions and layout as shown in drawings.
1. Install panels plumb, level, true and straight with no distortion; providing a continuous bead of silicone sealant in each joint and trim groove and between trim and adjacent construction.
2. Provide corner trim, closure trim at intersections of dissimilar materials and moldings at abutting panels.

SECTION 07210 - BUILDING INSULATION

1.1 General: Provide building insulation as shown and specified.

2.1 Materials:

A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com
1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
2. Perimeter foundation walls: Styrofoam SE, R-value indicated.

B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com.
1. Type: Owens Corning " Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665,. Provide lengths and widths required to coordinate with spaces insulated.
2. Exterior walls: Unfaced, R-value/thickness indicated

C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm.
1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

3.1 Installation:

A. General:
1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.

B. Foundation perimeter walls and slabs:
1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
2. Protect insulation from displacement and damage during backfilling and slab placement

C. Exterior Walls:
1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
2. Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.

D. Vapor Barriers:
1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
2. Provide single unsplced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

SECTION 07240 -EXTERIOR INSULATION AND FINISH SYSTEM (PB)

1.1 General: Provide the exterior insulation and finish system (EIFS) as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. EIMA (EIFS Industry Members Association) Standards and Publications.
a. 101.01, 101.02, 101.03, 101.86, 105.01, 200.02.
b. EIMA "Guideline Specification for Expanded Polystyrene (EPS) Insulation board."

B. Quality Assurance:
1. System components:
a. Produced by a single manufacturer or by manufacturers approved by the EIFS system manufacturer.
b. Fire performance: Flame spread of 25 or less, smoke developed of 450 or less when tested in accordance with ASTM E84.
2. Installer Qualifications: Performed by the system manufacturer or an applicator trained and approved by the system manufacturer. During application, the work shall be inspected by system manufacturer's representative.

C. Environmental conditions: Comply with manufacturer's requirements. Do not install materials during wet or freezing weather.

2.1 Materials

A. Manufacturer: STO Corp., P: (800) 221-2397, internet www.stocorp.com
Strategic Accounts Manager: Ray Redmond, P: (616) 437-2230, rredmond@stocorp.com

B. Exterior insulation and finish system: Sto Class PB "StoTherm ci" EIFS.
1. Air/Moisture barrier: Sto Guard system.
a. Sto RapidGuard for rough opening protection, sheathing joints and inside and outside corners.
b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh.
c. Sto Gold Coat: Waterproof Fluid Applied Air/Moisture Barrier
2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings.
3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft³ expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board.
4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating.
a. Medium/Fine Sand Finish.
b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color.
5. System warranty: 10 year labor and material.

C. Portland cement: ASTM C150, Type I or II, white or gray in color.

D. Water: Clean, potable and free of foreign matter.

E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating.
1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd² fabric.
2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd² ultra-high impact fabric.
3. Specialty mesh:
a. Sto Detail Mesh, nominal 4.2 oz/yd² flexible, symmetrical, interlaced glass fiber fabric.
b. Sto Corner Mat, nominal 7.8 oz/yd² pre-creased, heavy-duty, glass fiber fabric.

F. Joint sealants: Polyurethane base elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements.
1. Adhesion: Evaluated in accordance with ASTM C1382.
2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect.

G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer.
1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.

3.1 Mixing

A. Mix materials in accordance with manufacturer's published instructions.
1. Mix with a clean, rust-free high speed mixer to a uniform consistency.
2. No rapid binder, anti-freeze or accelerator additives permitted.

4.1 Installation

A. Preparation:
1. Coordinate installation of roofing membrane, windows, doors and other wall penetrations to provide a continuous exterior wall air/moisture barrier.
2. Coordinate installation of windows, doors and window and door flashing to provide continuous exterior wall air/moisture barrier.
3. Install copings and joint sealants immediately after installation of the EIFS, when EIFS coatings are dry.

B. Installation: Install Sto Guard air/moisture barrier system and exterior insulation and finish system (EIFS) in strict accordance with manufacturer's installation instructions, complying with governing regulations and industry standards applicable to the work.
1. Back wrap exposed board edges with mesh.
2. Provide double wrap or corner mat reinforcing at all inside and outside corners.
3. Provide expansion joints in accordance with manufacturer's recommendations for type of substrates and systems required, and visually acceptable to the Architect.
4. Provide drainable starter track horizontal edge trim as base of wall, above windows and doors openings and beneath windows with concealed flashing.

C. Insulation and adhesive application:
1. Install insulation board with long edge horizontal using running bond pattern. Off set insulation joints with substrate joints. Stagger joints and interlock joints at corners.
2. Apply adhesive to insulation board with a stainless steel trowel notched trowel, providing vertical uniform ribbons of adhesive when board is installed. Mount insulation board on substrate. Level, align and tamp insulation in place. Provide uniform contact and bond with joints tightly butted. Rasp edges and high areas as required to produce a level, plane surface.

D. Base coat and reinforcing mesh application:
1. Apply detail mesh at corners of windows, doors, and all penetrations through the EIFS.
2. Standard mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness, including high impact mesh where indicated. Embed standard reinforcing mesh into wet adhesive, lap edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry.
3. Ultra-High impact mesh: Apply base coat over insulation board to a uniform 1/8 inch thickness. Fully embed ultra-high impact reinforcing mesh into wet adhesive, butt edges at seams. Smooth surface until mesh is not visible. Allow to base coat to dry. Locate at 4'-0" wide perimeter of the rear service door to 6'-0" above grade and as indicated on Architectural drawings.

E. Apply finish coating continuously in one operation to the entire wall surface Provide a uniform finished appearance. Level and texture to the specified finish texture.

F. Install joint sealants at perimeter joints and joints within the system using elastomeric joint sealants, in accordance with drawing details and sealant manufacturer's recommendations.

SECTION 07250 - WEATHER BARRIERS

1.1 Section Includes

A. Weather barrier membrane
B. Seam Tape
C. Flashing
D. Fasteners

1.2 References

A. ASTM International
1. ASTM C920; Standard Specification for Elastomeric Joint Sealants
2. ASTM C1193; Standard Guide for Use of Joint Sealants
3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
6. ASTM E96; Test Method for Water Vapor Transmission of Materials
7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls.
8. ASTM E2178; Test Method for Air Permeance of Building Materials

B. AATCC - American Association of Textile Chemists and Colorists
1. Test Method 127 Water Resistance: Hydrostatic Pressure Test

C. TAPPI
1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area)
2. Test Method T-460; Air Resistance (Gurley Hill Method)

1.3 Quality Assurance

A. Qualifications
1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions.
2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.

1.4 Delivery, Storage and Handling

A. Refer to Section 01400 Quality Requirements.
B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
C. Store weather barrier materials as recommended by weather barrier manufacturer.

1.5 Scheduling

A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.
B. Schedule installation of weather barrier materials and exterior cladding within 9 months of weather barrier assembly installation.

2.1 Manufacturer

A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.44TYVEK (8-9835); http://constructiontyvek.com

2.2 Materials

A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components.

B. Performance Characteristics:
1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677.
2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B.
3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127.
4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410.
5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.
6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A.
7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117.
8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.

2.3 Accessories

A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.

B. Fasteners:
1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.

C. Adhesives:
1. Provide adhesive recommended by weather barrier manufacturer.
2. Products:
a. Liquid Nails LN-109
b. Polyglaze SM 5700
c. Denso Butyl Liquid
d. 3M High Strength 90
e. SIA 665
f. Adhesives recommended by the weather barrier manufacturer.

D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
2. Product:
a. 3M High Strength 90
b. Denso Butyl Spray
c. SIA 655
d. Permagrip 105
e. ITW TACC Sta' Put SPH
f. Primers recommended by the flashing manufacturer.

E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.

3.1 Examination
A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

3.2 Installation - Weather Barrier
A. Install weather barrier per regional requirements in accordance with manufacturer recommendations.
B Install weather barrier prior to installation of windows and doors.
C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap.
D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level.
E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer.
F. Window and Door Openings: Extend weather barrier completely over openings.
G. Overlap weather barrier
1. Exterior corners: minimum 12 inches.
2. Seams: minimum 6 inches.
H. Weather barrier Attachment:
1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally.
2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier mfr recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches o.c., when coordinated on the project site.
I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.

3.3 Seaming

A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
B. Seal any tears or cuts as recommended by weather barrier manufacturer.

3.4 Opening Preparation (for use with non-flanged windows - all cladding types)

A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.

3.5 Flashing (for use with non-flanged windows - all cladding types)

A. Cut 9-inch wide DuPont FlexWrap a min of 12 inches longer than width of sill rough opening. Apply primer as required by mfr.
B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before a adhering up the jambs.
C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges.
D. Apply 9-inch wide strips of DuPont StraightFlash at jambs. Align flashing with interior edge of jamb framing. Start DuPont StraightFlash at head of opening and lap sill flashing down to the sill. Spray-apply primer to top 6 inches of jambs and exposed sheathing.
E. Install DuPont FlexWrap at opening head using same installation procedures used at sill. Overlap jamb flashing min 2 inches.
F. Coordinate flashing with window installation.
G. On exterior, install backer-rod in joint between window frame and flashed rough framing. Apply sealant at jambs and head. leaving sill unsealed. Apply sealants in accordance with sealant manufacturer's instructions and ASTM C 1193.
H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont StraightFlash over the 45-degree seams.
I. Tape top of window in accordance with manufacturer recommendations.
J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C 1193.

3.6 Protection
A. Protect installed weather barrier from damage.

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Contents:

ARCHITECTURAL SPECIFICATIONS

G012

NOT USED

1.1 General: Upon penetration of the existing roofing system is required to accommodate new construction, perform necessary roofing system repairs.

A. Coordination: Before starting work, verify with the Tenant's Construction Manager and the Owner the following:
1. Existing roof system materials and installation methods.
2. Repair work responsibilities and warranty requirements. To maintain original warranty, where provided use original roof contractor.

B. Qualifications: Repair work shall be performed only by an experienced roofing installer approved or licensed by the existing roofing system materials manufacturer; with not less than five years of successful experience installing and repairing roofing systems similar to this projects existing roofing system.

2.1 Materials

A. Provide and install only materials approved and recommended by the roofing manufacturer for repairing the existing roofing system.

3.1 Installation

A. Preparation: Inspect roof surface conditions with roof manufacturer's representative to verify extent and location of any other repairs required to ensure a watertight roofing system upon completion of the repair work.

B. Make necessary repairs. Match existing roof slope, insulation materials and roofing membrane materials, except as otherwise approved by the existing roofing system manufacturer to accommodate new construction and repair work.

C. Install curb flashing furnished by mechanical and electrical trades for new roof top equipment.

SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING

1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.

A. Standards: Materials and construction shall conform to following:
1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
3. NRCA "Single-Ply Roofing Membrane."
4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."

B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.

C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
1. Comply with manufacturer's recommendations for handling and protection during installation.

D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
2. Provide special protection on completed roofing work.
3. Protect paving and structure walls adjacent to hoists before starting work.
4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.

E. Warranty
1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

2.1 Materials

A. Manufacturer: Duro-Last Roofing, Inc, (614) 370-5569, Mike Suman, www.duro-last.com
1. Basis of Design Product Roofing System
a. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
b. Thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.

B. Comparable Alternate Roof Manufacturers:
1. Versico Roofing Systems, (815) 341-3770, Chris Shermach, chris.shermach@versico.com
a. VersiFlex PVC Adhered System
2. Other comparable alternates can be considered when approved by Arch PM and Chipotle DM/CM.

C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CGSB 37-GP-52M or FM 4470
1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass- faced, silicone-treated gypsum core panels, 1/2"" thickness.
2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
a. Provide a double layer installation. Minimum total R-value as indicated on plans.
b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 868-1183, internet www.flexibeproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1 Installation

3.1 Installation

A. Preparation:
1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.

B. Installation:
1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
2. Roof insulation.
a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pr-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
b. Adhere membrane to insulation cover board with bonding adhesive. Broom bonded membrane to achieve maximum contact.
c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.
e. Flash and make weathertight all equipment curbs, pipes, conduits, drains and other penetrations or projections through sheet roofing using roofing system manufacturer's recommended flashing materials, accessories and procedures.
5. Install roof accessories and traffic walkways in accordance with manufacturer's instructions.
6. Install sheet metal work furnished under section 07600.

SECTION 07600 - FLASHING AND SHEET METAL

General:

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

1.1 Pre-manufactured perimeter edge metal and accessories

Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc, (800) 248-0280, Jason Dark, www.Duro-Last.com

A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

1.2 General: Miscellaneous sheet metal

A. Standards: Materials and construction shall conform to following:
1. SMACNA "Architectural sheet Metal Manual- 1993."
B. Installation: Performed under Section 07540 work.

2.1 Materials:

A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated.
1. Scuppers: Minimum 16 gage.
2. Coping/Wall caps: Minimum 18 gage.
B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
1. Conductor Boxes: Minimum 0.040"thickness.
2. Downspouts: Minimum 0.025"thickness.
C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.
D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

3.1 Installation:

A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage:
B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weatherproof. Bed flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slipsheet over treated wood.
4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

SEE SHEET G018 FOR SECTION 07 42 13 EXTRUDED PLANK SYSTEM

NOT USED

1.1 General:

A. Standards:
1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
2. Completely coordinate with work of all other trades.
3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.

B. Related work specified elsewhere:
1. Structural steel: Section 05100
2. Sheet joists: Section 05300 or 05400
3. Flashing and sheet metal: Section 07600

1.2 Quality Assurance:

A. Applicable standards:
1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
2. AISC "Steel Construction Manual" American Institute of Steel Construction
3. AISI: "Cold Form Steel Design Manual: American Iron and Steel Institute
4. ASTM A792-83-A250: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume)

B. Manufacturer's qualifications:
1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

1.3 Product Delivery, Storage and Handling

A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

2.1 Materials

A. Metal wall system panel:
1. Shadow Rib: 4 inch deep x 16 inch width with 1 1/2 inch deep x 5 1/4 inch wide fluting
B. Metal wall system style:
1. Fluted face
2. Concealed fasteners
C. Gauge: 24 gauge
D. Substrate: Per Plans
E. Texture: Smooth
F. Finish: Premium thermoset silicone polyester (20 year warranty)
G. Color: Polar White, to be painted per Exterior Elevations
H. Acceptable Manufacturer: MBCI Houston, Texas (281) 445-8555.

3.2 Surface Conditions

A. Examination:
1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

3.2 Installation

A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
C. Provide concealed anchors at all panel attachment locations.
D. Install panels plumb, level and straight with seams parallel conforming to design as indicated.

3.3 Cleaning, Protection

A. Dispose of excess materials and remove debris from site.
B. Clean work in accordance with manufacturer's recommendations.
C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
D. Touch up minor scratches and abrasions.

3.4 Field Painting

A. Refer to section 09900 on G017
B. Follow manufacturer's technical bulletin for Precoated Signature 200 MBCI wall panels.

Section 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

A. Standards:Comply with ASTM C 920 requirements.

B. Application: Performed by skilled, experienced joint sealer applicators.

2.1 Materials:

A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet www.tremcosealants.com,
a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
b. "Dymeric 240 FC" Multi Component, gun grade, chemically curing, tintable fast setting polyurethane sealant.
2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
a. Color pack for polyurethane multi component, gun grade chemically curing sealant.

B. Silicone Sealants:
1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
a. "SCS1700 Sanitary – Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
c. "Silglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
d. "GE Paintable Silicone" one component paintable silicone.
e. "SCS1009 Silicone Sealant" one-component acetoxy silicone for general purpose sealing and bonding
2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
a. "Dow 795" – one component, medium modulus, natural cure silicone.

C. Firestopping Sealants: 3M Fire Protection Products, (800) 328-1687, internet www.3M.com/firstop
1. "3M Fire Barrier CP 25WB+ Caulk" or approved equal

D. Joint backing: Non-absorptive, non-staining compressible, non-gassing, polyethylene foam backer rod compatible with joint sealants.

3.1 Installation:

A. Preparation: Clean and prepare joints prior to installing sealers:
1. Wipe shipping oils from surfaces to be sealed. Remove protective films and/or install joint backer rod if joint is larger than ¼" in width.

B. Installation: Install joint sealant materials in strict accordance with manufacturer's installation instructions.
1. Apply sealants in a uniform, continuous bead without gaps or air pockets. Hand tool and finish all joints so that a smooth, small, lip free uniform line is created along the substrate being shot. Remove any excess materials from tooled edges and ends of joint.
2. Install joint sealants to a depth no more than ½ the width of the joint.
3. Install sealants by proven techniques that result in sealants directly contacting and fully wetting joint substrates, completely filling recesses provided for each joint configuration, and providing uniform, cross-sectional shapes and depths relative to joint widths which allow optimum sealant movement capability.
4. Immediately, after sealant application, and prior to time skinning or curing begins, tool sealants to form smooth, uniform beads of configuration indicated to eliminate air pockets, and to ensure contact and adhesion of sealant with sides of joint. Remove excess sealants from surfaces adjacent to joint. Do not use tooling agents which discolor sealants or adjacent surfaces or are not approved by sealant manufacturer.
5. Clean off excess sealants or sealant smears adjacent to joints as work progresses by methods and with cleaning materials approved by manufacturers of joint sealers and of products in which joints occur.

4.1 Sealant Schedule:

A. Kitchen Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels
2. Base of FRP wall panels to T.O. specified base material.
3. Walk in cooler walls to FRP wall panels.
4. Stainless closure pieces at cooler walls to FRP wall panels.
5. FRP/stainless corner guards to FRP wall panels.
6. Ceiling tile pipe penetrations.
7. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
8. Mop sink stainless surround perimeter to walls.
9. FRP closure panel, at top of cooler, to cooler walls.
10. FRP wall panels to hollow metal door frames.
11. Coke line bundle to PVC cap.
12. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
13. Battery backup cover panel to FRP.
14. Faucet's to FRP wall panels.
15. FRP wall panels to quarry tile cove base.
16. FRP to aluminum plate at walk thru.
17. Menu board light bracket to ceiling.
18. Mop sink base at quarry tile.
19. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
20. Paper towel dispensers & soap dispensers to FRP/tile walls.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless closer pieces, at sides of cooler walls - to cooler walls.
2. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
3. Diamond plate panel seam joints.
4. Diamond plate perimeter to cooler walls.
5. Base of diamond plate to quarry tile cove base.
6. Stainless closure panel, at top of cooler walls, to cooler walls.
7. Top of quarry tile cove base to cooler walls at inside of cooler.
8. Cooler wall/diamond plate penetrations.
9. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
10. Stainless wrap at hollow metal door frame.
11. Stainless mop surround to stainless corners on mop sink.
12. Base of stainless corner pieces to schlutter strip at base.
13. Exit door threshold perimeters. To frame and floor, interior and exterior.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door jambs to quarry tile floor.

B. Managers Office:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Ceiling grid to FRP wall panels.
2. Perimeter of manager's desk to FRP wall panels.
3. Hollow metal door frame to FRP wall panels.
4. Top and ends of coat hanger bracket to FRP walls.
5. Base of FRP wall panels to quarry tile base.
6. Ceiling tile wire/pipe penetrations.
7. FRP inside corners to FRP wall panels. Both sides of corner piece.
8. Base of FRP wall panels to quarry tile.

- Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
1. Base of safe to floor.

C. Cooking Area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of wall tile to sheetrock ceiling.
2. Ceiling diffusers perimeters to sheetrock ceiling.
3. Ceiling pipe penetrations.
4. Wall tile to aluminum walk thru surround.
5. Tile wall penetrations/escutcheons perimeters.
6. FRP wall panels to sheetrock ceilings.
7. FRP wall panels to aluminum end wall plates.
8. FRP inside corners to FRP wall panels. Both sides of corner piece.
9. Sink to white wall tile.
10. Paper towel dispenser/soap dispenser to white tile.
11. POS/Serving counter to wall tile.
12. Stainless shelf behind grill to wall tile.
13. Faucets to ceramic wall tile.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Joint between hood and closure skirt.
2. Joint between hood support and hood. Both sides.
3. Connection joint between stainless shelf behind grill.
4. Hood to tile walls & sheetrock ceiling.
5. Hood gusset to wall tile on both sides.
6. Sink to bronze wall tile.
7. Paper towl dispenser/soap dispenser to bronze tile.
8. DML counter to bronze tile.

- Provide a continuous bead of dark gray GE SCS2000 at the following locations:
1. Base of equipment to concrete curbs/quarry tile.

- Provide a continuous bead of bronze GE SCS2097 at the following locations:
1. Ceramic tile inside corners.
2. Ceramic tile to aluminum end wall plates.

D. Restrooms:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
2. Perimeter of toilets/urinals to floor or FRP.
3. Perimeter of mirror to FRP.
4. Sink to wall.
5. Perimeter of paper towel/garbage unit to wall.
6. Toilet paper/napkin disposals units to walls.
7. Stainless shelf to wall.
8. Wall penetrations under sink and or escutcheons to perimeters.
9. Hollow metal door frames to FRP.
10. Base of FRP wall panels to top of wall base.
11. FRP inside corners to FRP wall panels.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber wall base to floor.

- Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
1. Base of hollow metal door frames to floor.

E. Dining area:
- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Wall tile to sheetrock walls.
2. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
3. Wainscot wall panels (Stonewood or other) to painted walls.
4. Diffuser/louvers perimeters to sheetrock walls.
5. Hollow metal door frames to painted walls - if needed.
6. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
7. Wall tile at serving line wall to POS counter.

- Provide a continuous bead of black GE SCS2000 silicone at the following locations:
1. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
2. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
3. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
4. Stonewood panels at serve line.

- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Base of garbage surround to floor.

- Provide a continuous bead of Dow 795 silicone at the following locations:
1. Sill of aluminum storefronts to concrete or tile floor. Color to be determined per store to match storefront (Charcoal/Anodized Aluminum/Dark Bronze).

F. Utensil Counter:
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
1. Stainless countertop to backsplash. Horizontal & vertical joints.
2. Base of Coke machine to countertop.
3. Perimeter of tea drain tray to countertop.
4. Stainless backsplash to white tile walls/painted walls.

- Provide a continuous bead of white GE SCS1700 silicone at the following locations:
1. Coke line bundle to PVC cap.

G. Fire Rated Walls:
- Provide a continuous bead of 3M 25WB+ at the following locations:
1. Wall/ceiling penetrations in rated walls.

H. Exterior Joints:
- Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
1. Sidewalk/concrete expansion joints.

- Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
1. Hollow metal door frames.
2. EIFS to abutting services.
3. Penetrations in EIFS.
4. Face brick or block control joints.
5. Perimeter of Aluminum Storefronts.
*Colors to be determined per store to match adjacent material colors. Verify with Chipotle Construction Manager and Architect.
- For "Fog" EIFS use Tremco - "Natural White"
- For "Knight's Armor" EIFS use Sonneborn - "Charcoal Gray" #276-U
- For white brick use Tremco - "China White"
- Provide a continuous bead of aluminum GE SCS1009 silicone at the following location:
1. CO2 fill port stainless box.
2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

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ARCHITECTURAL SPECIFICATIONS

G013

DIVISION 8 - DOORS AND WINDOWS

SECTION 08110 - STEEL DOORS AND FRAMES

1.1 General: Tenant to provide steel doors and frames as shown and specified.

A. Standards: Materials and construction shall conform to the following:
1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
3. SDI 122-99 " Installation for Standard Steel doors and Frames.

B. Manufacturer: A member of the Steel Door Institute (SDI).

2.1 Materials:

A. Steel Doors:
1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.

2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.

B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

C. Door and frame fabrication:
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
2. Punch frames and factory install rubber door silencers.
3. Provide minimum three anchors of suitable design for each jamb.
4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.

D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.

3.1 Installation:

A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.

B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS

1.1 General: Provide aluminum entrances and storefronts as shown and specified.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.

B. Standards: Materials and construction shall conform to the following:
1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

1.3 Summary:

A. Section Includes:
1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
a. Types of Kawneer Aluminum Storefront include:
(1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set
(2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set

2. Kawneer Aluminum Entrances, glass and glazing, and components
a. Types of Kawneer Aluminum Entrances include:
(1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.

3. Kawneer Tube for Feature Exterior Slat Wall

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
a. YKK
(1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
(2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
b. Oldcastle
(1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
(2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
c. US Aluminum
(1.) Series FT601 - 2" x 6" nominal dimension; Thermal
(2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
d. EFCO
(1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
e. Wausau
(1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
(2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4 Performance Requirements:

A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000
b. Importance Factor: (1.00)
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000

B. Storefront System Performance Requirements:
1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.
2. Air Infiltration:
a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.
b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no defection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:
a. Glass to Exterior - 0.47 (low-e)
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
a. Glass to Exterior - 70 frame and 69 glass (low-e)
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
a. Glass to Exterior - 38 (STC) and 31 (OITC)

1.5 Submittals:

A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.

B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.

C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.

1.6 Quality Assurance

A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope

B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of rest reports, and calculations.

C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.

D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 Project Conditions:

A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1 Manufacturers:

A. Manufacturer: Kawneer Company Inc., Contact: Doug Hess, Phone: 317-771-9265; email:doug.hess@arconic.com

1. Basis-of-Design Product Storefront Framing:
a. Trifab 601T (thermal) Storefront System
i. 2" x 6" System Dimensions
ii. Glass: Exterior (Center-Set)
b. Trifab 451T (thermal) Storefront System
i. 2" x 4-1/2" System Dimensions
ii. Glass: Exterior (Front-Set)

2. Basis-of-Design Product Storefront Entrances:
a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"
b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.
c. Glazing gaskets shall be either EPDM elastometric extrusions or a thermoplastic elastomer.
d. Provide adjustable glass jacks to help center the glass in the door opening.

3. Basis-of-Design Product Feature Exterior Slat Wall:
a. Kawneer Tube #027881 (1" x 3"), capped at top and bottom
i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM.
1. Architechural Fabrication

B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
1. YKK
a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal
b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
2.. Oldcastle
a. Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal
b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
3.. US Aluminum
a. Series FT601 - 2" x 6" nominal dimension; Thermal
b. Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
4. EFCO
a. Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
5. Wausau
a. TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal
b. TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

2.2 Materials:

A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.

B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.

C. Aluminum Storefront Entrance Extrusions:Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.

D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.

E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.

G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.

H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.

2.3 Storefront Framing System:

A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.
1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.

B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.

C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.

D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.

E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.

F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems:

A. Glazing: As specified in Section 08800 - Glazing.

B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.

C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.

D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.

E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:
1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.
a. Color: Black
2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
a. Color: Matching structural sealant.

2.5 Entrance Door Systems:

A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.

2.6 Accessory Materials:

A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.7 Storefront Framing Fabrication:

A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
1. Profiles that are sharp, straight, and free of defects or deformations.
2. Accurately fit joints; make joints flush, hairline and weatherproof.
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
4. Physical and thermal isolation of glazing from framing members.
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
6. Provisions for field replacement of glazing.
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.

B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.

C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.

D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.

E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Storefront Entrance Door Fabrication:

A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.

B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
3. Prepare components with internal reinforcement for door hardware.
4. Arrange fasteners and attachments to conceal from view.

C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.

2.9 Aluminum Finishes:

A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.

B. Factory Finishing:
1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)
2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM
a. YKK "Charcoal" UC99477, Superior Painted Finishes
b. All others to be verified with samples and submittals to Arch PM

2.10 Brake Metal Trim:

A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.
1. Show actual field measurements on shop drawings.
2. Differentiate between shop and field fabrication.
3. Indicate substrates and adjacent work with which the fabrications must be coordinated.
4. Include large-scale details of anchorages and connecting elements.
5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11 Formed Metal Fabrications - General:

A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.

B. Coordinaton: Match dimensions and attachement of formed metal items to adjacent construction. Produce integrated assembles. Closely fit joints; align edges and flat surfaces unless indicated otherwise.

C. Forming: Profiles indicated. Maximize lenghts. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain seperation at bends.

D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.

E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.

F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.

G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition.
1. Ease exposed edges to small uniform radius.
2. Welded joints.
a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M
3. Brass/Bronze Brazed Joints:
a. Perform torch brazing in accordance with AWS C3.4M/C3.4
b. Perform induction brazing in accordance with AWS C3.5M/C3.5
c. Perform resistance brazing in accordance with AWS C3.9M/C3.9

H. Performance requirements;
1. Thermal Movements:
a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.
2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

2.12 Formed Metal Fabrications - Sheet Metal

A. Closures, Trim, and Fill Panels:
1. Form Closures from type and thickness of metal indicated.
2. Conceal fasteners when possible.
3. Drill and tap holes for securing to other surfaces.
4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.
5. Miter or cope at corners and reinforce with bent metal plate. Form tigh joints.

2.13 Materials

A. Genaral: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material.
C. Anchors, Clips, and Accessories: Use one of the following:
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
3. Steel complying with ASTM A36/A36M and hot-dipped galvenized to ASTM A123/A123M Coating Grade 35
4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.
5. Exterior Locations or in contact with Stainless Steel:
a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)
b. Nuts: Stainless steel; ASTM F594.
6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.
a. Type: Provide chemical or torque controled expansion anchors.
b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.
7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.
D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.
E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14 Finishes

A. Finishes, General: Comply with NAAMM AMP 500-06
1. Complete mechanical finishes befor fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.
2. Protect mechanical finishes on exposed surfaces from damage.
3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.
4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
B. Galvanized Steel Finishes:
1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M
2. Color: As shown on the drawings.
3. Factory Prime: Apply shop primer to pepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1
4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1 Examination:

A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.
1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Installation:

A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.

B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.

C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.

D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.

E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.

F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.

3.3 Adjusting, Cleaning, and Protection:

A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.

B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.

C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 085619 - PASS-THRU WINDOW

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
7. ASTM C1048 - Heat-Treated Flat Glass--Kind HS, Kind FT Coated and Uncoated Glass.
8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.
10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.

B. Quality Assurance:
1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.

2.1 Materials:

A. Acceptable Manufacturers. Arch PM to verify required manufacturer per Tenant's assignment.
1. Quikserv; Toll Free: 1.800.388.8307; Email: sales@quikserv.com; Web: https://www.quikserv.com/
2. ReadyAccess; Toll Free: 1.800.621.5045; Email: ready@ready-access.com; Web: https://www.ready-access.com

B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
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Contents:
ARCHITECTURAL SPECIFICATIONS

G014

2.2 In-Line Side Sliding Automatic Window and Air Curtain

A. Standard Custom Side Sliding Windows – Arch PM to verify manufacturer with Tenant.

• Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 29-3/4"H
2. Finish: Dark Bronze Anodized
3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
4. 'CHIPOTLE' package includes pre-wired air curtain with relay to sync operation with window.
   a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air Curtain mounts to transom.
      i. Heated Air Curtain: Model: QSV1025EJ-040-BK
      ii. Ambient Air Curtain: Model: QSK1025AA-BK
5. Refer to interior elevations (A700s) for direction of opening for ordering.

• ReadyAccess Automatic Side Sliding Window: 47 -1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H

1. Service Opening: 19"W x 35"H
2. Finish: Dark Bronze Anodized
3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
   a. Heated Air Curtain: Model: AA300 (replaces transom)
   b. Ambient Air Curtain: Model: AA100 (split transom)
5. Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

1. ReadyAccess: Window 47-1/2" W x 35-3/4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
   a. Service Opening:15-1/4"W x 28"H, limited to meet CA code.
   b. Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.

2. Quikserv Model: SS-4035-E-CHIPOTLE-CALI, same as above except as noted.
   a. Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
   b. 'CHIPOTLE' package includes pre-wired ambient air curtain with relay to sync operation with window Model: QSK1025AA-BK. Air curtain mounts to transom.

C. Alternate Impact-Resistant and Florida Product Approved Option, Miami Dade Horizontal Bi-Parting Impact Slider

1. Quikserv Model: BP-7241E-IP-CHIPOTLE, Complete Unit Size: 72"W x 41"H.
   a. Service Opening: 29-1/2"W x 27"H
   b. Rough Opening: 72-1/2"W x 41-1/2"H
   c. Glass: Impact Resistant Glass
   d. 'CHIPOTLE' package includes ambient air curtain
      i. Ambient Air Curtain: Model: QSK1025AA-BK, Part Number: 9345.
      ii. Do not mount directly to window, mount on wall above.
   e. Miami-Dade NOA #18-0814.02

2.3 Electrical Requirements

A. Quikserv Electrical Windows: 120V / 60 Hz, 20-amp branch circuit, single phase. Power supplied through base of window. Conforms to UL Standard 325 – Certified to CAN/CSA C22.2 NO. 247. Confirm with Electrical Drawings.

1. Heated Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE)
   a. Separate 230V circuit and Power Supply required for heated air curtain. Air curtain pre-wired through window frame with power supply routed to base of window. Confirm with Electrical Drawings.
2. Ambient Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE) and Alternate California Code Option: Model: SS-4035-E-CHIPOTLE-CALI
   a. Separate circuit not required. Window pre-wired to power and sync operation with air curtain.
3. Ambient Air Curtain for Alternate Impact-Resistant and Florida Product Approved Option (Model: BP-7241E-IP-CHIPOTLE):
   a. Connect to main control board on window to power and synchronize operation with opening and closing of window.

B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp dedicated circuit required. Run power to header on fixed panel side.

1. AA300 Heated Air Curtain
   a. Separate 208V /60 hz /40-amp single phase circuit required.
2. AA100 Ambient Air Curtain (Standard and CA window)
   a. Separate 120V / 60hz / 15-amp single phase circuit required. Run power to center of window above header.

3.1 Installation

A. Install in accordance with manufacturer's instructions.
B. Install pass-thru windows plumb, level, square, true to line, and without warp or rack. Maintain dimensional tolerances and alignment with adjacent Work.
C. Install thermal isolation where components penetrate or disrupt building insulation. Pack fibrous insulation in shim spaces at perimeter of assembly to maintain continuity of thermal barrier.
D. Install pass-thru window components weathertight.
E. Anchor pass-thru windows securely in place to supports. Use attachment methods permitting adjustment for construction tolerances, irregularities, alignment, and expansion and contraction.
F. Separate aluminum from other metal surfaces with bituminous coatings or other means approved by Architect.
G. Coordinate installation of related sheet metal flashing as specified in Section 07 62 00 - Sheet Metal Flashing and Trim.
H. Install perimeter joint sealants as specified in Section 07 91 23 - Backer Rods.

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
   2. ANSI/BHMA A156 Series Builders Hardware

B. Quality Assurance:
   1. Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
   2. Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
   3. Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
   4. After hardware schedule acceptance, provide necessary templates or physical hardware to required trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.

2.1 Materials:

A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.

B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.

C. Mount hardware units at heights indicated in DHI "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.
   1. Top Butts: 5 inches; top of butt from head of frame.
   2. Middle Butts: 3'-2", centerline from finish floor.
   3. Bottom Butts: 5 inches; finish floor to bottom of butt.
   4. Locks: centerline from finish floor per hardware schedule.
   5. Knobs: 3'-2", centerline from finish floor.
   6. Pulls: centerline from finish floor per hardware schedule.
   7. Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

1.1 General: Provide glass and glazing as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. CPSC 16 CFR Part 1201 (1-91)"Safety Standard for Architectural Glazing Materials."
   2. GANA "Glazing Manual - 1990."

B. Quality Assurance:
   1. Codes and standards: Provide type of glass and glazing products that comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Comply with all applicable codes, standards and regulations that control safety glazing materials and installation.
   2. System Performance: Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal movement, wind loading and, where applicable, impact loading, without failure including loss or breakage of glass, failure of glazing sealants or gaskets to remain watertight and airtight, deterioration of glass and glazing materials and other defects in the work.
   3. Installation: Performed only by experienced glaziers.

C. Warranty:
   1. Insulating glass: Five years from date of installation against defects that materially obstruct vision through the glass or affect thermal and physical integrity.

2.1 Materials:

A. Glass:
   1. Float Glass (FG): 1/4" thick clear float glass.
   2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
   3. Insulating Glass (IGL): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
      a. Low-emissivity coating on #2 surface.
      b. Visible Light Transmittance: 64% - 70%
      c. Visible Light Reflectance - Outdoors: 9%-11%
      d. Solar Energy Transmittance: 32%-34%
      e. Solar Energy Reflactance-Outdoors: 30%-34%
      f. U-Value - Winter Night: 0.29
      g. U-value - Summer days: 0.28
      h. Solar Heat gain Coefficient: **Per Sheet G001**
      i. Shading Coefficient: **Per Sheet G001**
      j. Manufacturers/Products:
         i. AGC/Comfort Ti-AC40, or similar to meet code
         ii. Sun Guard/SN-68, or similar to meet code
         iii. PPG/Solarban 60, or similar to meet code
         iv. Viracon/VE1-2M, or similar to meet code
   4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
   5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

B. Glazing Materials:
   1. Glazing Sealants: Provide elastomeric glazing sealants suitable for applications indicated; compatible with one another and with other materials they will contact, complying with ASTM C920.
   2. Glazing Tape: Provide preformed, non-staining and non-migrating elastomeric tape, as recommended by tape and glass manufacturers for application indicated, complying with ASTM C 1281.
   3. Glazing gaskets: Provide manufacturer's standard snap-on aluminum stops and neoprene, vinyl or EPDM glazing gaskets.
   4. Provide setting blocks, spacers and edge blocks of material, size, and shape complying with referenced glazing standard, and compatible with surfaces contacted in installation.

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

A. Preparation:
   1. Field verify measurements and conditions of installation.
   2. Examine all details. Provide proper fitting to details indicated.
   3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.

B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
   1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).

C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.

D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.

E. Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

1.1 General: Provide gypsum board systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. GA 214-90 "Levels of Gypsum Board Finish."
   2. GA-216 "Specifications for Application and Finishing of Gypsum Board."
   3. USG "SA923 Drywall/Steel Framed Systems."

2.1 Materials:

A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.

B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
   1. Partition metal framing:
      a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
      b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.

C. Ceiling and Soffit metal framing/suspension systems:
   1. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
   2. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
   3. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.

D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
   1. General use panels: Sheetrock Regular panels.
   2. Fire rated panels: Sheetrock Firecode Core panels.
   3. Water-resistant: panels: Sheetrock HUMITEK panels.

E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "W" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.

G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 200B casing bead metal trim, No. 093 Control Joint.

H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.

I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.

J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.

K. Sound attenuation insulation: USG Thermafiber unfaced 3-1/2" thick, mineral fiber insulating batts/blankets; standard lengths and widths required to coordinate with spaces insulated.

3.1 Installation

A. Install metal wall and partition framing and ceiling suspension/ support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.
   1. Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
   2. Wall and partition framing:
      a. Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
      b. Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace tops of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
      c. Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
      d. Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.

B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
   1. Screw fasten all gypsum board panels.
   2. Metal Trim: Install metal corner beads at external corners of gypsum board work and metal trim wherever edge of gypsum board would be exposed. Use longest practical lengths.
   3. Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

C. Acoustical Treatment:
   1. Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetrations with a continuous bead of acoustical sealant including a bead at both faces of partitions.
   2. Install sound attenuation insulation at scheduled partitions and ceilings. Install insulation in single layer of required thickness. Extend full thickness over entire area to be insulated. Cut and fit tight around obstructions. Fill all voids.
   3. At openings and cutouts, fill open spaces between edges of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
   4. Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.

D. Finishing:
   1. Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
   2. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
   3. Interior Exposed Gypsum Board Finish: Level 5 Finish.
      a. Locations: Typical for all walls and ceilings, unless otherwise indicated
      b. Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
      c. Embedding and First Coat: Setting-type joint or taping compound.
      d. Fill (Second) Coat: Setting-type topping compound.
      e. Fill (Third) Coat: Setting-type topping compound.
      f. Finish (Fourth) Coat: Skim coat entire surface.
   4. Interior Concealed Gypsum Board: Level 3 Partial Finishing.
      a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.

E. Cement Board: Install cement board as a 16" high base at all kitchen and kitchen cook line wall types as indicated on drawings.

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

1.1 General: Provide Fiberglass-mat faced, moisture resistant gypsum backer board as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
   2. ASTM C1002 Standard Specifiation for Steel Self Piercing Tapping Screws for the Application of Gypsum Panel Products or Metal Plaster Bases to Wood Studs or Steel Studs
   3. ASTM C1178 Standard Specification for Glass Mat Water-Resistant Gypsum Backing Panel
   4. ASTM D3273 Standard Test Method for Resistance to Growth of Mold on the Surface of Interior Coatings in an Environmental Chamber
   5. ASTM D6329 Standard Guide for Developing Methodology for Evaluating the Ability of Indoor Materials to Support Microbial Growth Using Static Environmental Chambers.
   6. ASTM E96 Standard Test Methods for Water Vapor Transmision of Materials
   7. Tile Council of North America, Inc. (TCNA): TCA Handbook for Ceramic Tile Installation, Current Edition.

2.1 Materials:

A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com

B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
   1. General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

C. Fasteners: Screws meeting ASTM C1002, with corrosion resistant treatment. Size and type per manufactuer's recommendations:
   1. Walls (Steel Frame): Bungle head, fine thread, sharp point rust resistant drywall screw
   2. Walls (Walls Frame): Bungle head, coarse thread, sharp point rust resistant screw

D. Metal Framing, Trim, joint treatment, adhesives, acoustical sealant, and sound attenuation insulation: Refer to Section 09260 Gypsum Board Systems

3.1 Installation

A. Install DenShield at all tile walls excluding hood area as indicated on drawings.

B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
   1. Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
      a. Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
      b. DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
      c. For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
      d. Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
      e. In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
      f. Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
      g. Do not use all purpose joint compound or tape in wet areas.
      h. Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
      i. DensShield Tile Backer should not be used for exterior installations.
      j. DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
      k. DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.

C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

1.1 General: Provide quarry tile flooring and base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com
   2. Waterproofing, Setting and Grouting Materials:
      a. Setting and Grouting Materials and Tile Base Membrane: Mapei
         i. For ordering purposes, email all orders to chipotle@daltile.com
         ii. For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com

B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" 0T03
   1. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
   2. Rest Rooms: Provide non-abrasive finish quarry tile.
   3. Outside Corner Cove Base (Kitchen): #QC-(L or R)-3565 5" x 6"
   4. Inside Corner Cove Base: #QB-3565 1" x 5"
   5. Bullnose Coveless Base: #Q-1665, 6" x 6"
   6. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"

C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
E. Grout: Mapei, Keraposy lEG CQ, Color: #9, "Gray", 1/4" grout joints.
F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Preparation: Clean substrate surfaces, scheduled to receive quarry tile, thoroughly and remove all coatings that may impair bond.
   1. Center tile fields both directions in each floor area. Adjust layout to minimize tile cutting. Avoid tile less than one-half size. Locate cuts to be least conspicuous.
   2. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.

B. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive quarry tile floor finish. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up vertical wall surfaces minimum 10" high.
   2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

C. Wet Areas: Install waterproofing membrane at all quarry tile wall base. Install membrane materials in accordance with manufacturer's installation instructions to produce a waterproof membrane of uniform minimum 30 mil thickness bonded securely to substrate.
   1. Extend waterproofing up all vertical wall surfaces receiving quarry tile base minimum 10" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces receiving quarry tile base.

D. Installation: Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   1. Floors: Latex-portland cement mortar on concrete; TCA detail F113 and ANSI A108.5, grout ANSI A108.10.
   2. Base: Latex-portland cement mortar on cement board.

SECTION 09340 - CERAMIC TILE

1.1 General: Provide ceramic wall tile as shown and specified.

A. Standards: Materials and installation shall conform to the following:
   1. ANSI A137.1 "Ceramic Tile."
   2. TCA "Handbook for Ceramic Tile Installation."

2.1 Materials:

A. Manufacturers:
   1. Ceramic Tile and Accent Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
      a. For ordering purposes, email all orders to chipotle@daltile.com

B. Ceramic Tile:
   1. Kitchen Tile, or as noted in plans, Series - Finish Line Glazed Ceramic Tile:
      a. Color - White FL90, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
   2. Accent Tile, Series - Color Wheel Glazed Ceramic
      a. Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
      b. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
         i. Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Stacked Bond
         ii. Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

C. Setting Adhesive: Thinset Mortar, Mapei, Ultraflex LFT - Gray

D. Grout:
   1. Kitchen Tile or as noted in plans
      a. Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
   2. Accent Tile
      a. Mapei, Series - Flexcolor CQ - Chocolate #07, 1/8" grout joints.

3.1 Installation

A. Preparation: Clean substrate surfaces scheduled to receive ceramic tile thoroughly and remove all coatings that may impair bond.
   1. Protect surrounding work from damage.
   2. Remove any curing compounds or other contaminates.
   3. Vacuum clean surfaces and damp clean.
   4. Install cementitious backer board or glass-mat faced gypsum backing board as indicated in drawings in accordance with ANSI A108.11 and board manufacturer's instructions. Tape joints and corners, cover with skim coat of dry-set mortar to a feather edge.
   5. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

B. Kitchen:
   1. Install, grout and clean ceramic tile in accordance with referenced TCA installation details and ANSI standard specifications for setting methods scheduled.
   2. Lay tile in horizontal stack bond, following detail drawings for layout considerations. Horizontal rows of tile shall be full-height courses, unless noted otherwise.
   3. Arrange pattern so that a full tile or joint is centered on each wall horizontally and that no tile less than 1/2 width is used at the ends of the wall. Exception: when one end of the wall is a tile-to-gypsum board transition. Do not interrupt tile pattern through openings.
   4. Use specified stainless steel corner guards at tile-to-tile and tile-to-FRP outside corners.
   5. Use corner bead of 100% silicone sealant, color to match grout, at inside corners where tile meets tile.
   6. Use corner bead of 100% silicone sealant, white, at inside corners where tile meets paint gyp. board, tile meets FRP or tile meets aluminum.
   7. Cut and fit tile to penetrations through tile, leaving sealant joint space. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout.
   8. Sound tile after setting. Replace hollow sounding units.
   9. Keep expansion joints free of adhesive or grout. Allow tile to set for a minimum of 48 hours prior to grouting. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes. Refer to section 07900 Joint Sealers.
   10. Clean tile and grout surfaces.

Consultant:

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ARCHITECTURAL SPECIFICATIONS

G015

SECTION 09510 - SUSPENDED CEILING SYSTEMS

1.1 General: Provide acoustical ceiling systems as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. CISCA "Acoustical Ceilings - Use and Practice."
2. ASTM C635.
3. ASTM C636.

B. Related Sections:
1. 09515 Cementitious Wood Fiber Acoustical Panels: Suspension system.

2.1 Materials:

A. Manufacturer:
1. USG Interiors, Inc., (800) 950-3839, www.usg.com
2. Pittcon Industries, (800) 637-7638, www.pittconindustries.com

B. Ceiling Panels: USG "Sheetrock Lay-In ClimaPlus No. 3270" ceiling panels with white, stipple texture, vinyl facing, 24" x 48" x 1/2".

C. Light Pocket: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
1. Light pocket can have up to 6 week lead time and should be ordered as soon as possible.
2. Light pocket endcap should only be installed when the end of the cove is not against a wall.

D. Suspension System: Provide intermediate duty, structural class, direct hung systems adequate to support light fixtures, ceiling diffusers and other normal accessories.
1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System" non-fire rated with 15/16" exposed face, cold-rolled galvanized steel with aluminum face cap, white paint finish on exposed surfaces. Provide hemmed edge aluminum wall angles, 15/16" exposed leg, white paint finish matching exposed grid.
2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings & Soffits or with Cementitious Wood Fiber Acoustical Panels (Tectum): USG "DGLW" Heavy Duty Drywall Suspension System with 1 5/8" deep by 1 1/2" wide main tees and 1 1/2" deep by 1 1/2" wide cross tees.
3. Hanger Wire: No. 12 SWG galvanized steel wire.
4. Heavy Duty "Tee" Grid System for use with Felt Baffle Ceiling System: USG Donn Brand DX/DXL with 15/16" wide face tees, color: black

3.1 Installation

A. Install acoustical ceiling materials and suspension systems in strict accordance with manufacturer's recommendations, complying with governing regulations and industry standards applicable to the work.

B. Suspension system installation shall be laser leveled with a maximum surface leveling tolerance of 1/8" in 12'-0".

C. Install exposed Tee suspension systems with main tees nominally 12 ft long spaced 48 in O.C. and cross tees nominally 4 feet long spaced 24 in O.C.

D. Install concealed Tee suspension systems with main tees nominally 12 ft long spaced 24 inches O.C. and cross tees nominally 2 ft long spaced 48 in O.C.

E. Hanger wire shall be spaced 48" O.C. along main tees, at all four corners of light fixtures (where applicable), at midpoint of cross tees adjacent to light fixtures and duct outlets, and adjacent to main tee splices.

F. Secure wire hangers by looping and wire-tying either directly to building structure or to hangers that are secure and appropriate for substrate.

G. Provide edge trim molding at perimeter of acoustical ceiling installation and intermediate vertical surfaces. Use maximum lengths. Miter trim corners to Provide tight, accurate joints. Connect moldings securely to substrate surfaces.

SECTION 09653 - RUBBER WALL BASE

1.1 General: Provide resilient rubber wall base as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. ASTM D 2240 Rubber - 85 Shore A

2.1 Materials:

A. Manufacturer: Johnsonite, Inc., (800) 899-8916, internet: www.johnsonite.com
1. Basis-of-Design Product Rubber Wall Base:
a. Resilient Rubber:
1. .125" (3.17 mm) Thickness
2. "Black" color
3. Straight (toeless) or coved as specified on finish plan
4. Inside and outside corners with 4" returns.

B. Alternate Wall Base only when approved by Arch PM and Chipotle DM.
1. Vinyl Wall Base
a. .125" (3.17 mm) Thickness
b. "Black" color
c. Straight (toeless) or coved as specified on finish plan
d. Inside and outside corners with 4" returns.

C. Setting Adhesive
1. For porous surface applications: Johnsonite 960 Acrylic Cove Base Adhesive
2. For non-porous surface applications: Johnsonite 946 Contact Bond Adhesive or polymer based alternative

3.1 Installation:

A. Preparation: Clean substrate surfaces scheduled to receive resilient rubber and vinyl wall base thoroughly and remove all coatings that may impair bond. A uniform temperature of at least 65 degrees Fahrenheit shall be maintained for 24 hours before, during and after the installation is completed. The wall base and adhesives shall be conditioned in the same manner. Coiled wall base shall be uncoiled and lay flat for at least 24 hours at 65 degrees Fahrenheit prior to installation. Floor and walls shall be clean, dry, and free of dust, all paints, wallpaper, and all other foreign material, which may affect proper adhesive bonding. Wall base may be installed on interior plaster, gypsum wall board, concrete, masonry, mineral-reinforced cement board or similar porous surfaces. Wall base shall not be installed on surfaces that will be exposed to drastic temperature changes or moisture.

B. Application: Use a 1/8" square notch trowel to apply adhesive. Allow adhesive to set up and then apply wall base in accordance with manufacturer's instructions.

SECTION 09770 - SPECIAL WALL SURFACING - PHENOLIC INTERIOR WALL PANELS

1.1 General: Provide Stonewood solid phenolic panels and accessories for interior walls and millwork as shown and specified.

1.2 Related Sections:

A. Section 05400 - Cold Formed Metal Framing

B. Section 06210 - Finish Carpentry and Millwork

C. Section 07900 - Joint Sealers

D. Section 09260 - Gypsum Board Systems

1.3 Standards: Materials and construction shall conform to the following:

A. ASTM D638 - 10 Standard Test Method for Tensile Properties of Plastics.

B. ASTM D790 - 10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.

C. ASTM E84 - 12 Standard Test Method for Surface Burning Characteristics of Building Materials.

D. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 Design/Performance Requirements:

A. Design and size of wall panel assemblies including wall panels, mounting system to support weight of panels.

B. Allow for thermal movements from ambient and surface temperature changes by preventing buckling, opening of joints, overstressing of components, failure of joint sealants, failure of connections, and other detrimental effects. Base calculations on expected movement of material as defined in fabrication guidelines.

1.5 Quality Assurance:

A. Manufacturer's Qualifications:
1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
2. Minimum of 40 years of experience in paper saturation of phenolic resin, and producing phenolic paper laminate.

B. Fabricator:
1. Fabricated by the manufacturer, and/or;
2. Contracted by the customer, minimum 5 years' experience in fabrication work for the size and complexity of the projects.

C. Installer
1. Proven professional installer with a minimum of 5 years of documented experience.
2. Approved by the manufacturer.

1.6 Delivery, Storage and Handling:

A. Refer to Section 01400 Quality Requirements.

B. Delivery: Deliver materials in manufacturer's original unopened containers/packages, with labels clearly identifying product name, manufacturer, color/texture and weight.

C. Storage:
1. Keep panels dry and stored indoors in original packaging until installation.
2. Store Stonewood panels on a smooth, dry, flat surface, making sure there are no bends or bowing in the load.
3. Do not store directly on cold concrete floors as moisture may migrate.
4. Do not store under heating units or air conditioning units.
5. Keep load stored within outer wrap until use. Remove pallet straps once load is moved to storage area.
6. Reseal plastic wrap if partial load is used.
7. Keep foam dividers in place.

D. Handling:
1. Handle materials in accordance with manufacturer's instructions.
2. Protect materials during handling to prevent damage.
3. When moving sheets, lift evenly to avoid dragging panels across each other and scratching the surface. PLEASE TAKE CARE NOT TO SCRATCH THE SURFACE OF THE PANEL DURING HANDLING, MACHINING AND INSTALLATION.

1.7 Warranty:

A. Limited Warranty: Fibbers warrants Stonewood for a period of 10 years. Refer to www.stonewoodpanels.com for details.

1.8 Project Conditions:

A. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working conditions for finish work.

B. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

C. Field Measurements: Verify locations of structural members and wall opening dimensions by field measurements before composite wall panel fabrication and indicate field measurements on Shop Drawings.

2.1 Manufacturer:

A. Fiberesin Industries, Inc. PO Box 808, Oconomowoc, WI 53066. Phone: (262) 567-4427, Fax: (262) 567-4814,
Web Site: www.stonewoodpanels.com Email: info@fiberesin.com

B. Made in the United States from materials sourced in the USA.

2.2 Application:

A. Apply Solid Phenolic Laminate Wall Panels at walls and other surfaces as indicated on the Drawings. Phenolic Wall Panels are architectural wall panels applied over a sheathed stud wall or other solid blocking per Drawings.

2.3 Interior Stonewood:

A. Material: Solid phenolic laminate panel w/o overlay.
B. Color: Black ND
C. Finish: Matte
D. Standard Size: 48"x96", fabricator to trim height to 47"
E. Panel Thickness: 5/16", 1/2"
F. Panel Core: HR Black

2.4 Minimum Material Properties

A. NEMA Requirements:

Description	NEMA Requirements	
Dimensional Change:	3.11	
Length (Machine Direction)	0.3% Maximum	0.25%
Width (Cross Direction)	0.7% Maximum	0.50%
Density (PCF)	82	

B. Mechanical Properties:

Property	NEMA Requirements	
Flexural Strength ASTM D-790		
MD (psi)	18,000	20,000
CD (psi)	12,000	16,000
Flexural Modulus ASTM D-790		
MD (psi)	1.6x10^6	2.0 x10^6
CD (psi)	1.4x10^6	1.5x10^6
Tensile Modulus ASTM D-638		
MD (psi)	18,000	18,000
CD (psi)	12,000	13,000

C. Fire Resistance:

	Class A (0.250")	Class B (0.250")
Flame Spread Index - ASTM E-84 (BLDG):	5	30
Smoke Developed Values - ASTM E-84 (BLDG):	5	105
Fire Rating (Standard Product is Class B):	A	B

D. Manufacturing Tolerance:

Thickness (.156 to .375)	+/- .020
Thickness (above .375 to 1.000)	+/- .030
CNC Shaped Size (Length - Width)	+/- .020
Drill Diameter	+/- .003
Drill Depth	+/- .020
CNC Hole to Hole	+/- .020
CNC Hole to Edge (1 Oper)	+/- .020
CNC Hole to Edge (2 Oper)	+/- .030
Routing - (Slots Width and Length)	+/- .015
Routing - (Slots Depth)	+/- .020

2.5 Accessories (Fasteners):

A. Panel Fasteners: #10 x 1-1/4" flat phillips head black oxide wood screws to be used with wood blocking and #10 x 1-1/4" flat phillips head black oxide sheet metal screws to be used with sheet metal blocking as recommended by the manufacturer.
B. Provide exposed fasteners with heads matching color of composite wall panels by means of factory-applied coating.
C. Fasteners shall by designed to withstand effects of dead load and accommodate hydrothermal expansion/contraction of panel.
D. Wall Panel Accessories: Provide components required for a complete composite wall panel assembly including trim, flashings, sealants, gaskets, fillers, closure strips, and similar items. Match material and finish of composite wall panels unless otherwise indicated.

3.1 Manufacturer's Execution Instructions:

A. Compliance: Comply with manufacturer's/fabricator's/supplier's product data, handling and installation instruction/manual, shop drawings, shipping container/package ticket identification, etc.

3.2 Examination:

A. Verify correct panels received including dimension, tolerance, color/texture.
B. Verify correct attachment system received for the specific project/job.
C. Verify all the documents including shop drawing and installation guidelines.
D. Verify installation conditions are satisfactory to receive work of this section before the commencement
E. Verify substrate installation is complete, flat, and true to plane.
F. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.3 Preparation:

A. Field Measurements: Verify prior to fabrication and installation of the cladding panel.
B. Protect surrounding areas and surfaces to preclude damage during work of this section.
C. Lay out work before beginning installation as necessary for true, plumb and aligned panel installations.
D. Verify locations of joints and panel lengths.

3.4 Installation:

A. Conform to manufacturer's instructions and provisions of shop drawings.
B. Install to allow hydro-thermal expansion/contraction.
C. Use appropriate techniques/tools to work with the panel.
D. Do not force to fit, do not bend, stretch/compress.
E. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces.
F. Do not install damaged or questionable panels.
G. Install solid phenolic wall panels plumb and level and accurately spaced.
H. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
I. Shim or otherwise plumb substrates receiving composite wall panels.
J. Do not use construction adhesives to apply wall panels directly to substrates or wall board. Use mechanical fasteners only.

3.5 Erection Tolerances:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch in 20 feet, non-accumulative, on level, plumb, and location lines as indicated and within 1/8 inch offset of adjoining faces and of alignment of matching profiles.

3.6 Field Quality Control:

A. Manufacturer's Field Service: Provide field services to ensure product installation is in accordance with manufacturer's/fabricator's /supplier's instructions and installation manual, shop drawings etc.

3.7 Adjusting:

A. Correct identified defects and irregularities.
B. Replace damaged soiled, and discolored work.

3.8 Cleaning:

A. Leave installation clean and free from residue and debris from work of this Section.
B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

SECTION 09900 - PAINTS AND COATINGS

1.1 General: Provide paints and coatings as shown and specified.

A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.

B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

1.2 Related Documents:

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this section.

1.3 Summary:

A. This section includes surface preparation and field painting of the following:
1. Exposed exterior items and surfaces.
2. Exposed interior items and surfaces.
3. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

1.4 Quality Assurance:

A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.

B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats.

C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.

1.5 Delivery, Storage and Handling:

A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
1. Product name or tile of material.
2. Product description (generic classification or binder type).
3. Manufacturer's stock number and date of manufacture.
4. Contents by volume, for pigment and vehicle constituents.
5. Thinning instructions.
6. Application instructions.
7. Color name and number.
8. VOC content

B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
1. Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

1.6 Project Conditions

A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.

B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).

C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or to damp or wet surfaces.
1. Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

2.1 Manufacturers:

A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.

B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
1. PPG Industries, Inc.
2. Materials - No substitutions allowed.

2.2 Paint Materials, General

A. Material Compatibility: Provide block fillers, primers, undercoats, and finish-coat materials that are compatible with one another and the substrates indicated under conditions of service and application, as demonstrated by manufacturer based on testing and field experience.

B. Material Quality: Provide manufacturer's best-quality "professional" paint material of the various coating types specified. Paint-material containers not displaying manufacturer's product identification will not be acceptable.

Colors: Color guided selected by owner and will be strictly adhered too, unless otherwise noted.

C. Exterior Coatings:

Exterior Ferrous Metals:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from steel surface. Uniformly roughen surface with 150-grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional or HVLP (high volume low pressure)

Exterior and Interior Gas Piping:

Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminates from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.
Prime: (1) Coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) Coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils
Application: Conventional or HVLP (high volume low pressure)

Exterior Patio Railing:

Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminates from steel surface. Remove all dust before solvent cleaning SSPC-SP1 by the use of stiff bristle brush. SSPC-SP3 may be required as a more aggressive preparation to remove loose mill scale, loose rust, loose paint and other loose detrimental foreign matter from the surface. Performance is better with more aggressive preparation.
Prime: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (1) coat PPG; 95-3300 Durathane DTM Urethane Mastic (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Prefinished Metal Wall Panels:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603XI Alkali Resistant Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat XIM Primer Bond - Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Finish: (2) coats PPG; 90-1110 Series Pitt-Tech Satin DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

Exterior Galvanized Metal:

Preparation: Before applying primer or other surface treatments, clean galvanized metal surface to SSPC-SP1 that could impair bond of the various coatings. Remove oil, grease and soap film before priming use of Krud Kutter Metal Clean & Etch may be required on bare or new galvanized. Surface must be clean, dry and free of contaminants, including salt deposits. Additional prep may be needed to SSPC-SP2. Schedule cleaning and painting so dust and other contaminants from the cleaning process will not fall on wet, newly painted surfaces.

Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-503 Concrete Primer before steel installation over all concrete surfaces.

Owner Option 1:
Prime: (1) coat PPG; 6-209 SpeedHide Galvanized Metal Primer (400 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.
Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 2:
Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastic Primer (263 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 7.0 mils.
Finish: (2) coats PPG; 95-3300 Durathane Urethane Mastic (240 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Owner Option 3 (Low VOC):
Prime: (1) coat PPG; Amerlock 2 Fast Dry VOC Compliant Epoxy (84 g/L VOC): Applied at a dry film thickness of not less than 4.0 to 6.0 mils.
Finish: (2) coats PPG; Amershield VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

Application: Conventional or HVLP (high volume low pressure) be done with conventional spray or airless equipment or brush or roller.

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ARCHITECTURAL SPECIFICATIONS

G016

Exterior CMU Primer:

CMU Preparation: Mortar should cure for at least 30 days and preferably 90 days prior to priming. Fill block with an appropriate block filler. Surfaces previously coated with water thinned cement-based paint must be prepared with extra care. If the material appears to be adhering tightly, a masonry sealer may be applied to seal the surface. Check adhesion by applying a piece of masking tape. If the sealer peels off and has loose particles, remove all chalking or crumbling material, re-seal and re-check adhesion.

Field Preparation: Surfaces to be coated must be dry, clean, sound, and free from all contamination including loose and peeling paint, dirt, grease, oil, wax, concrete curing agents and bond breakers, chalk, efflorescence, mildew, rust, product fines, and dust. Remove loose paint, chalk, and efflorescence by wire brushing, scraping, sanding, and/or pressure washing. Putty all nail holes and caulk all cracks and open seams. Sand all glossy, rough, and patched surfaces. Feather back all rough edges to sound surface by sanding.

Prime: (2) Coats PPG; Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler

Application: Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils.
Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils.
Application: Airless spray with back roll using 3/4" nap roller.

Exterior Wood:

Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 17-921 Seal Grip Primer Sealer (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Finish: (2) coats PPG; 70-501 Manor Hall Exterior Semi-Gloss or PPG Acri-Shield Semi-Gloss PP649 (50 g/L VOC): Applied at a dry film thickness of not less than 1.5 to 3.0 mils.
Application: Brush, Roll or Spray

D. Interior Coatings:

Interior Metals: (Doors, door frames, where indicated)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Repaints only require spot prime on bare metal surfaces.)
Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Metals: (Metal Deck if indicated on Finish Plan)
Preparation: Remove all visible rust, oil, grease, soil and all other foreign substances with cleaning solutions and allow to dry before priming.
Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils. (Primer only required on unpainted decking or to spot prime bare areas in decking.)
Finish: (2) coats PPG; 90-1110 Pitt-Tech Plus Satin Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Gyp. Bd.:
Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions. Fill hairline cracks, holes and other defects with filler compatible with finish coats. Sand smooth all areas filled and/or areas to make a smooth overall finish.
Prime: (1 coat PPG; 9-900 Pure Performance Acrylic Primer (0 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils. (Spot prime required only on repaint projects.)
Finish: (2) coats PPG; Pure Performance Zero VOC Eggshell 9-500 Series, sheen as shown on finish plan: Applied at a dry film thickness of not less than 1.5 to 2.0 mils.
Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:
(Plywood finishes shall be shop applied in a controlled environment)

Shop Preparation: Scuff sand between coats.

Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
Application: Spray

Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.

Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking.:
Preparation: All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion.

For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.
Owner Option 1:
Finish: (1) coat PPG; A-2886B Type II, White Zone Marking - Applied at a dry film thickness of not less than 8.6 mils.

Owner Option 2:
Finish: (1) coat PPG; A-2886B Type II, Yellow Zone Marking - Applied at a dry film thickness of not less than 8.6 mils

Application: Applying a test strip to determine dry to no- pickup time when the humidity is higher than 65%. Cone whenever necessary.
• Do not heat paint in striping system above 60 C.
• Do not apply when temperatures are below 3 C.
• Do not apply when rain is forecast.
• Do not apply when temperatures are near or below the dew point or rain is forecast within 1 hour.
• Do not thin more than 5% with acetone and then use immediately.
• Do not apply if temperature is expected to fall below freezing for 6 hours after application of paint.
Application Equipment: Apply with a high quality brush, roller, or by airless spray equipment.

Airless Spray: Pressure 2000 psi, tip 0.015" - 0.021"Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coating s into the skin by airless equipment may cause serious injury.
Brush: Polyester/Nylon Brush
Roller: All-purpose nap roller cover.

E. Color Guide: Refer to Finish Plan and drawings for exact location of all colors.

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V52-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-4110XI Flat	PPG 1041-1 "Moonlit Snow"	Flat	C3
Restroom, Cooking, Kitchen and Serving Area Soffit Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-500 Series	PPG 1041-1 "Moonlit Snow"	Eggshell	C3
Interior Metal Roof Deck and Metal Columns	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1013-5 "Victorian Pewter"	Satin	C1
Patio Railing	Durethane DTM Urethane 95-3300 Series	PPG 1001-6 "Knight's Armor"	Gloss	N/A

3.1 Installation:

A. Examination:
1. Verify that site environmental conditions are appropriate for application of coatings specified.
2. Immediately prior to coating application, ensure that surfaces to receive coatings are dry.
3. Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.
4. Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.
5. Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.

B. Preparation:
1. Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.
2. Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.
3. Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.
4. Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.
5. For specific substrate preparation, see individual specifications.
6. Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.

C. Application:
1. General: Mix, prepare and apply paint according to manufacturer's written instructions.
   a. Use applicators and techniques best suited for substrate and type of material being applied.
   b. Do not apply high-performance coatings over dirt, rust, scale, grease, moisture, scuffed surfaces, or conditions detrimental to forming a durable coating film.
   c. Coating surface treatments, and finishes are indicated in the coating system descriptions.
   d. Provide finish coats compatible with primers used.
   e. The term "exposed surfaces" includes areas visible when permanent or built-in fixtures, convector covers, grilles, covers for finned-tube radiation, and similar components are in place. Extend coatings in these areas, as required, to maintain system integrity and provide desired protection.
2. Application Procedures: Apply coatings by brush, roller, spray, or other applicators according to manufacturer's written instructions.
   a. The number of coats and film thickness required is the same regardless of application method.
   b. Completed Work: Match approved Samples for color, texture, and coverage. Remove, refinish, or recoat work that does not comply with specified requirements as directed by Tenant. Paints and coatings work is subject to acceptance by the Tenant.
   c. Keep brushes and rollers clean, free from contamination and suitable for the finish required.
   d. Unless otherwise indicated, allow exterior paints to dry for 48 hours and interior paints to dry for 24 hours between coats.
   e. Sand lightly and remove dust between coats to achieve required finish.
   f. Finished surfaces shall be uniform in finish and color and free of brush marks, sagging, holidays, corduroy and other imperfections. Coverage and hide shall be complete.
   g. Edges of paint or finish adjoining other materials or colors shall be sharp and clean without overlapping. Cut paint in neatly around glass or other edges.
   h. Paints and coatings work is subject to acceptance by the Tenant. Correct unsatisfactory work not complying with these specifications as directed by the Tenant.

D. Cleaning:
1. After completing painting, clean glass and paint spattered surfaces. Remove spattered paint by washing and scraping without scratching or damaging adjacent finished surfaces.

E. Protection:
1. Protect work of other trades, whether being painted or not, against damage from painting. Correct damage by cleaning, repairing or replacing, and repainting, as approved by Architect / Tenant.

2. Provide "Wet Paint" signs to protect newly painted finishes. After completing painting operations, remove temporary protective wrappings provided by others to protect their work.

3. After work of other trades is complete, touch up and restore damaged or defaced painted surfaces.

F. Maintenance: Furnish extra paint materials from the same production run as the materials applied in the quantities described below. Package paint materials in unopened, factory-sealed containers for storage and identify with labels describing contents. Deliver extra materials to the Tenant.
1. Provide one gallon of paint and wood stain of each type and color required for maintenance purposes. Provide original, unopened, labeled containers with color samples and a list of project use.

DIVISION 10 - SPECIALTIES

SECTION 10522 - PORTABLE FIRE EXTINGUISHES

1.1 General: Provide portable fire extinguishers as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. NFPA 10 "Standard for Portable Fire Extinguishers.

2.1 Materials:

A. Provide minimum 10 lb. capacity fire extinguishers in quantity and type complying with local code and fire regulations requirements.
1. Provide new fire extinguishers fully loaded, tested, UL and FM labeled and listed and ready for use.
2. Provide manufacturer's recommended mounting brackets and hardware.

3.1 Installation:

A. Install fire extinguishers in accordance with manufacturer's installation instructions, at heights and locations acceptable to the local fire regulations enforcement authority

SECTION 10700 - EXTRUDED ALUMINUM CANOPY

1.1 General: Provide canopies as shown and specified.

A. Standards: Materials and installation shall conform to the following:
1. AWS, D1.1 - Structural Welding Code - Steel
2. AMMA, Aluminum Finishes AAMA 2604 (FGIA 2604) - Powder Coat

B. Quality Assurance
1. Shop Drawings: To be created under the guidance of a professional engineer. Site Specific stamped drawing may be required by the manufacturer based on location. Drawings must indicate size, material and finish. Include plan, elevations and sections to clearly outline the canopy locations. Include installation procedures, details of joints, attachments and clearances.
   a. Submit within 15 days after contract award.
2. Color charts showing manufacturer's full range of colors from standard line including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. – Manufacturer is located at 2100 E. Richmond Avenue, Fort Worth, TX 76104. P: (800) 962-8027. E: chipotle@arch-fab.com, W: www.arch-fab.com
B. Substitutions are acceptable assuming they comply with this specification, are submitted based on Quality Assurance and Division1 - Section 01100 requirements and have minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.
1. Awnex, Contact: Katie Dicks, P: 770-704-7140 x151, E: katie@awnexinc.com
2. Uni-Structures, Contact: Dana Fredericks, P: 678-974-1773
3. API, Contact: Jade Moore-Esposito, P: 813-925-0144, E: jesposito@americanproducts.com

2.2 Materials:

A. Specifications are based on Architectural Fabrication, Inc. - Helios Canopy Patent #9,976,310
1. Framing: Gutter fascia, tube, angles: 6063-T6 alloy extruded aluminum. Gutter to be notched in the back to allow steel support arms to pass through.
2. Decking: Extruded aluminum 8" wide deck pan in 6063-T6 or 6063-T5 alloy (Roll form is not acceptable)
3. Steel Support Arms: 3" x 3" x .250" Steel tube support arms w/ 8" w x 5"h x 1/2" thick steel plate welded to the back. Must manufacture steel arm in manner to leave room for LED enclosure at back of canopy.
4. Hardware and Fasteners: Nuts, bolts, washers, clevis pins, screws, anchors and pipe spacers to be zinc plated or galvanized steel required to suit application and per pre-engineered canopy load requirements. Typical wall anchors are minimum ½" diameter. Touch up paint must be provided for each canopy to allow for potential repairs in the field.
5. Flashing: Shall be minimum 0.040-inch aluminum, fabricated to prevent leakage and sealed with Novaflex metal roof sealant in custom color match. Another equivalent sealant is acceptable.
6. LED Enclosure: Each canopy is to have a preformed aluminum LED enclosure along the back edge of the canopy finished in the same powder coat as the canopy. 1" nominal inside width, and a minimum aluminum sheet thickness of .063".
7. Scuppers: Drainage for canopy is (2) aluminum scuppers located at the front of the canopy per drawings. See finish below for details.
8. Finish: All aluminum shall be powder coat finish per FGIA 2604 (aka AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the top coat of super polyester powder (2604 compliant) applied.

3.1 Installation:

1. Install canopies per manufacturer's written instructions and videos, and as indicated on architectural drawings
2. Locate and place canopies level, plumb and at indicated alignment with adjacent work.
3. Use concealed anchors where possible.
4. Repair damaged finishes so no evidence remains of corrective work. Return items to the factory that cannot be refinished in the field. Make required alterations and refinish entire unit or provide new units.
5. Protect galvanized and nonferrous-metal surfaces from corrosion or galvanic action by applying a coating of bituminous paint or elastomeric coating on surfaces that will be in contact with concrete, masonry or dissimilar metals.

DIVISION 11- NOT APPLICABLE

DIVISION 12- FURNISHINGS

SECTION 12495 - WINDOW SHADES

1.1 General: Provide window shades as shown and specified.

A. Standards: Shade fabric material shall meet the requirements of the following:
1. NFPA 701 Flame Test and California US Title 19 for flame retardant materials.

B. Field measure window openings and verify installation conditions prior to window shade fabrication

C. Warranty:
1. 5 years against defects in materials and workmanship.
2. 1 year for service call repairs and adjustments.

2.1 Materials:

A. Manufacturer: Insolroll Window Shading Systems, Inc. (800) 447-5534, internet www.insolroll.com

B. Window Shades: Insolroll 2000 Solar Screen Shades, manual operation.
1. Solar Screen Shade Fabric: Insolroll woven fiberglass yarn, 5% openness, Charcoal/Bronze color.
2. Provide manufacturer's recommended mounting brackets and hardware.

C. Fabrication: Unless otherwise indicated, fabricate window shade units to completely fill existing window openings from jamb to jamb and from head to 42" AFF or the nearest horizontal mullion from 40"-44" AFF.
1. Adjustment system controlled by plastic bead chain on polyester cord. Multi-banded steel spring clutches keep shade in desired position.
2. Roller tube 2" extruded aluminum, sized to minimize deflection.
3. Fabric attached to roller tube using two-sided adhesive tape.
4. Fabric bottom hem RF heat sealed pocket with enclosed hem bar.

3.1 Installation:

A. Install window shades level and plumb in accordance with manufacturer's installation instructions and drawing details. Provide units securely anchored in place with recommended hardware and accessories to provide smooth operation without binding.

DIVISIONS 13 - 14 - NOT APPLICABLE

Consultant:

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 8020
303.974.5873
WWW.LINGLEDESIGN.COM



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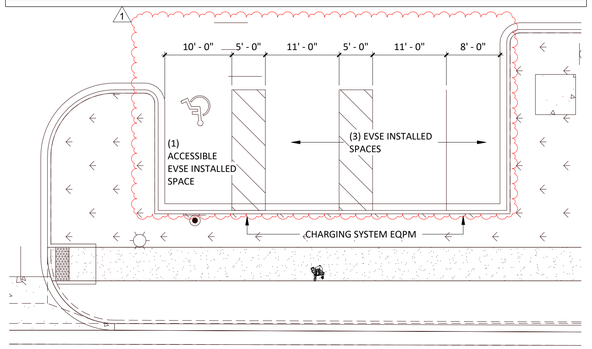
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ARCHITECTURAL SPECIFICATIONS

G017

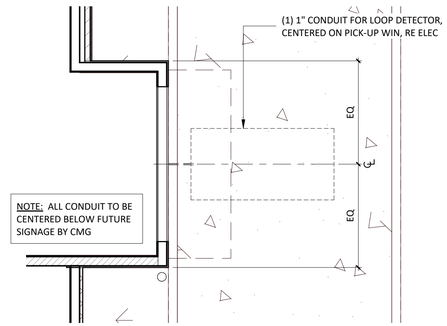
ELECTRIC VEHICLE (EV) CHARGING SPACE TERMS & DEFINITIONS

The below definitions are abbreviated. See DEC and DCBC sections for the full definitions of defined terms.

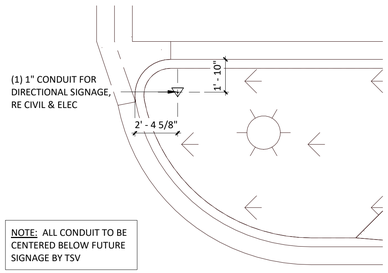
- **EVSE** – Electric Vehicle Supply Equipment for plug-in power transfer between a premises wiring and an electric vehicle.
- **EVSE Installed Space** – Parking space that is provided with an EVSE connection.
- **DCFC EVSE Installed Space** – Parking space that is provided with a Direct Current Fast Charging EVSE.
- **EV Ready Space** – Parking space provided a branch circuit to an outlet, junction box or receptacle for future EVSE.
- **EV Capable Space** – Parking space provided with electrical infrastructure for future EVSE, such as conduit. No electrical service or panel capacity is required.
- **Electrical Vehicle Charging Station** – Vehicle spaces served by an electrical vehicle charging system (i.e., EVSE Installed space or DCFC EVSE Installed space).
- **Accessible EVSE Installed Space** – Parking space provided for an electric vehicle charging station that is designed to be accessible to and usable by people with physical disabilities and complies with Section 1107 of the DCBC and ICC A117.1.
- **Universal Vehicle Charging Station** – Parking space provided for an electric vehicle charging station that can be utilized for all users and complies with Section 1107 of the DCBC and certain sections of ICC A117.1.



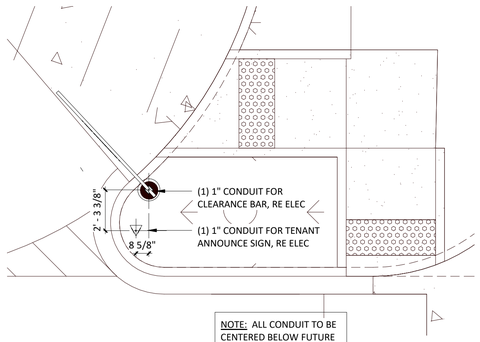
5 SP100 **EV Parking Plan**
3/32" = 1'-0"



4 SP100 **ENLARGED SITE PLAN @LOOP DETECTOR**
1/4" = 1'-0"



3 SP100 **SITE PLAN AT DIRECTIONAL SIGN**
1/4" = 1'-0"



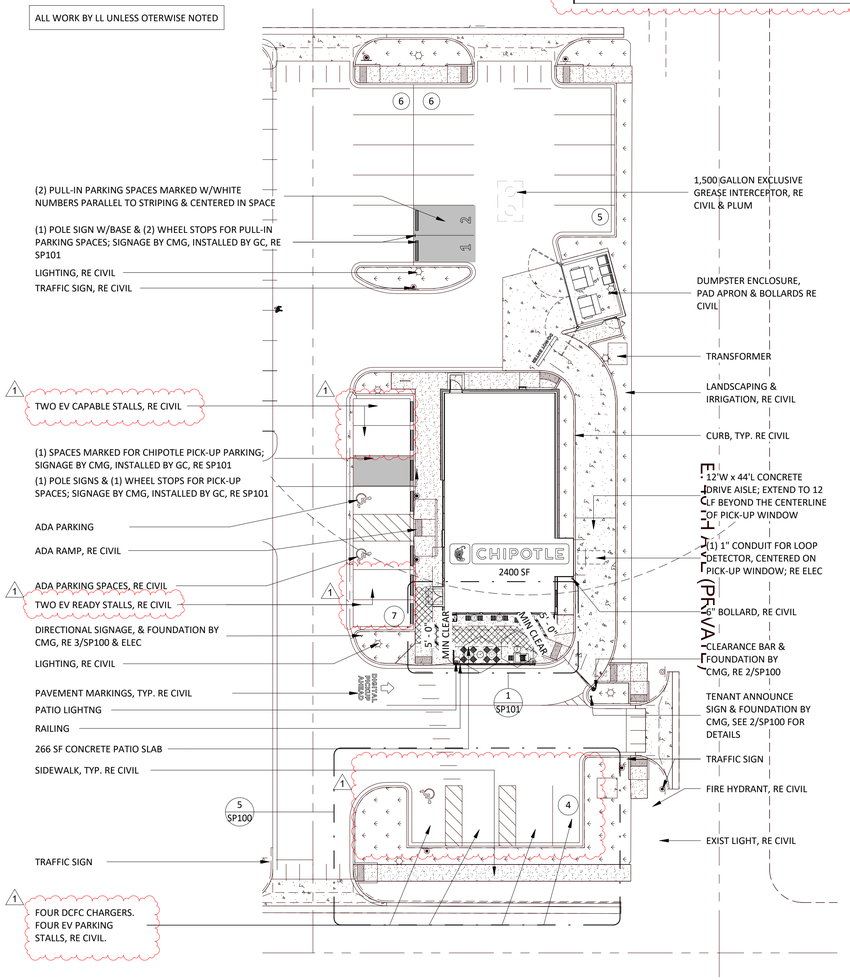
2 SP100 **SITE PLAN AT ANNOUNCE SIGN & CLEARANCE BAR**
1/4" = 1'-0"

GENERAL NOTES

1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.
3. ELECTRIC VEHICLE CHARGIN SERVICE IS SEPERATED FROM THE BUILDING ELECTRICAL SERVICE. THE EV ELECTRICAL SERVICE AND CHARGING IN UNDER A SEPARATE SUBMITTAL. THE REFERANCE NUMBER WILL BE PROVIDED ONCE THAT SUBMITTAL HAS BEEN MADE.

EVSE INSTALLED SPACES
REQUIRED = 3 PROVIDED = 4
EV READY SPACES
REQUIRED = 2 PROVIDED = 2
EV CAPABLE SPACES
REQUIRED = 3 PROVIDED = 2

ALL WORK BY LL UNLESS OTERWISE NOTED



1 SP100 **ARCHITECTURAL SITE PLAN**
3/64" = 1'-0"

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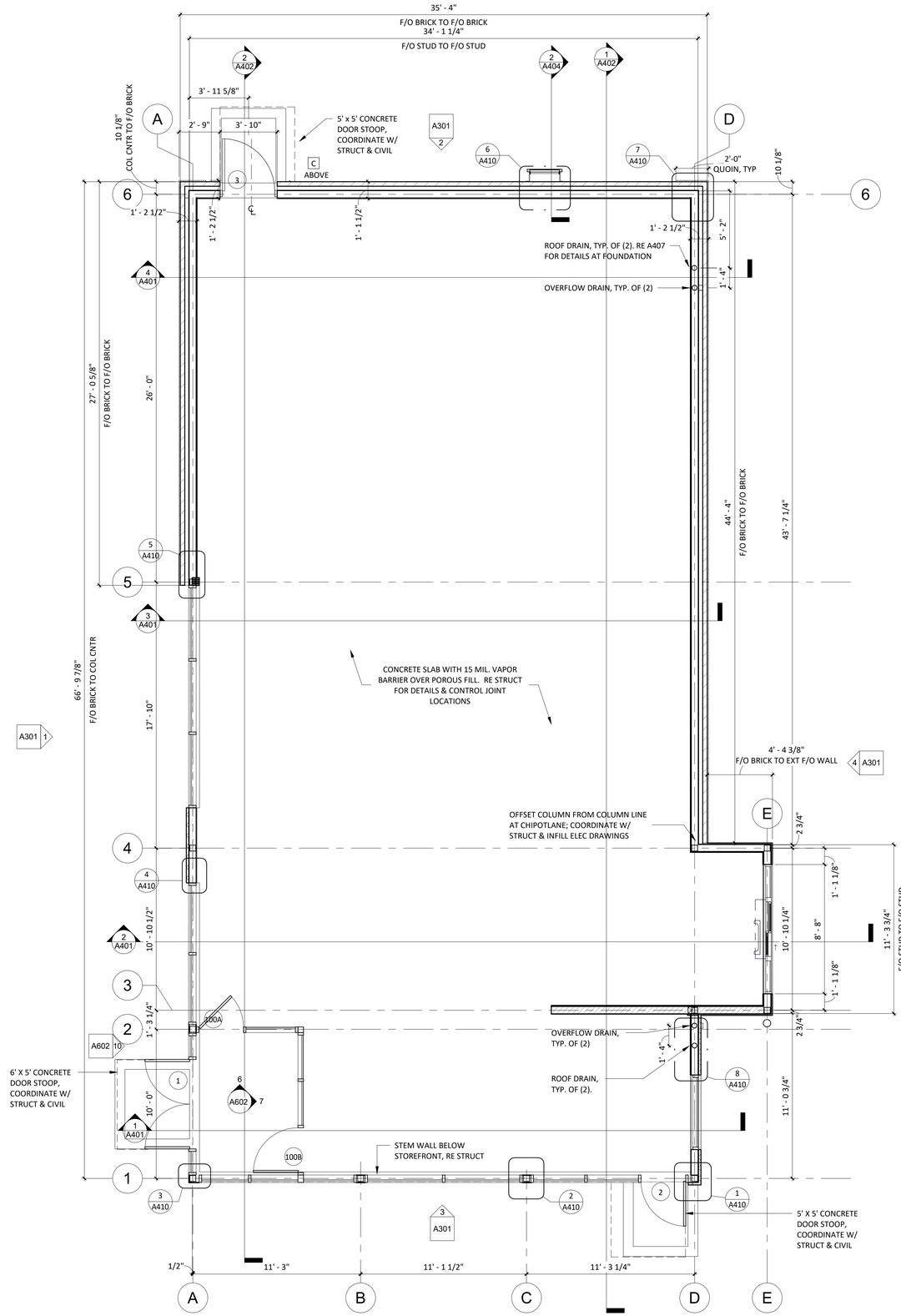
Revisions:
1 08/07/2024 PERMIT COMMENTS
2 09/09/2024 Revision 2

Drawn: EYW
Checked: CL

Project No.
05-5119

Contents:
ARCHITECTURAL SITE PLAN

SP100



ARCHITECTURAL SHELL PLAN
1/4" = 1'-0"

CONSTRUCTION NOTES

1. REFER TO A601 FOR DOOR INFORMATION & A602 FOR STOREFRONT DIMENSIONS.
2. ALL DIMENSIONS ARE TO FACE OF FRAMING (STUD WALL) OR CENTERLINE OF STRUCTURE UNLESS NOTES OTHERWISE.
3. SEE STRUCTURAL SHEETS FOR ALL STUD FRAMING CONFIGURATIONS, SIZES, SPACING AND GAUGES.
4. ALL EXTERIOR WOOD BLOCKING TO BE MOISTURE RESISTANT PRESERVATIVE TREATED (P.T.)
5. TAPE SEALANT AT ALL ANCHOR LOCATIONS.
6. ALL FLASHING AND SEAMS BETWEEN SHEATHING IN COMPOSITE WOOD STUD WALL CONSTRUCTION CONDITIONS TO BE TAPED AND SEALED WITH TAPE SEALANT.
7. LAP ALL WEATHER RESISTANT BARRIERS AND THRU-WALL FLASHING IN A WATER SHEDDING FASHION. TAPE ALL EXPOSED EDGES.
8. EXTEND ALL THRU-WALL FLASHING TO 1/4 INCH PAST THE EXTERIOR FACE OF WALL.
9. PROVIDE CONTINUOUS ANCHORAGE FOR ALL THRU-WALL FLASHING.
10. EXTEND FLASHING VERTICALLY A MINIMUM OF 8 INCHES ABOVE THE BASE OF THE FLASHING.
11. APPLY SEALANT TO ALL SHEATHING JOINTS AND FASTENER PENETRATIONS.
12. PROVIDE FULLY ADHERED FLASHING AT ALL WINDOW AND DOOR OPENING HEADS, SILLS AND JAMBS.

Consultant:

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158 W. MAIN ST.
LENA, IL 61048
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CARL L LINGLE
306135
STATE OF COLORADO

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ARCHITECTURAL SHELL PLAN

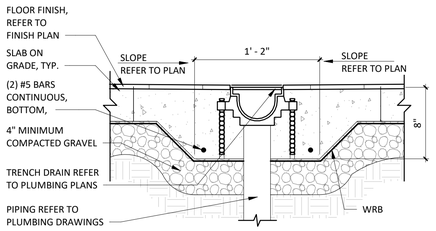
A100

PLUMBING LEGEND

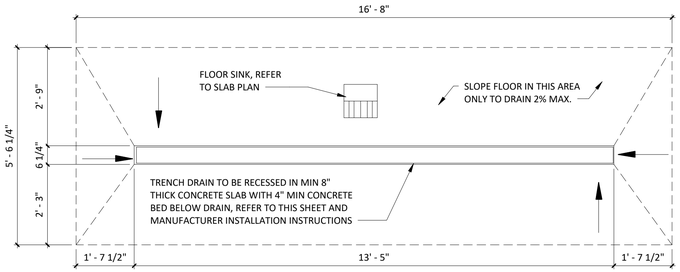
	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

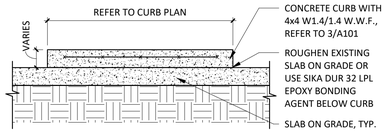
1.	VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.	ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3.	ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS OTHERWISE NOTED.
4.	GC TO REVIEW ELECTRICAL PLANS FOR LIGHTING OR POWER STUB LOCATIONS PRIOR TO POURING SLAB.
5.	REFER TO "03300 - CAST-IN-PLACE CONCRETE" IN SPECIFICATIONS FOR CONCRETE PATCHING OR INSTALLATION INFORMATION.
6.	VERIFY PERIMETER FOUNDATION INSULATION IS EXISTING IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
7.	ALL TILED FLOOR TO MAINTAIN POSITIVE SLOPE TO ALL FLOOR DRAINS OF NOT GREATER THAN 2% SLOPE FOR A 4'X4' AREA U.N.O.



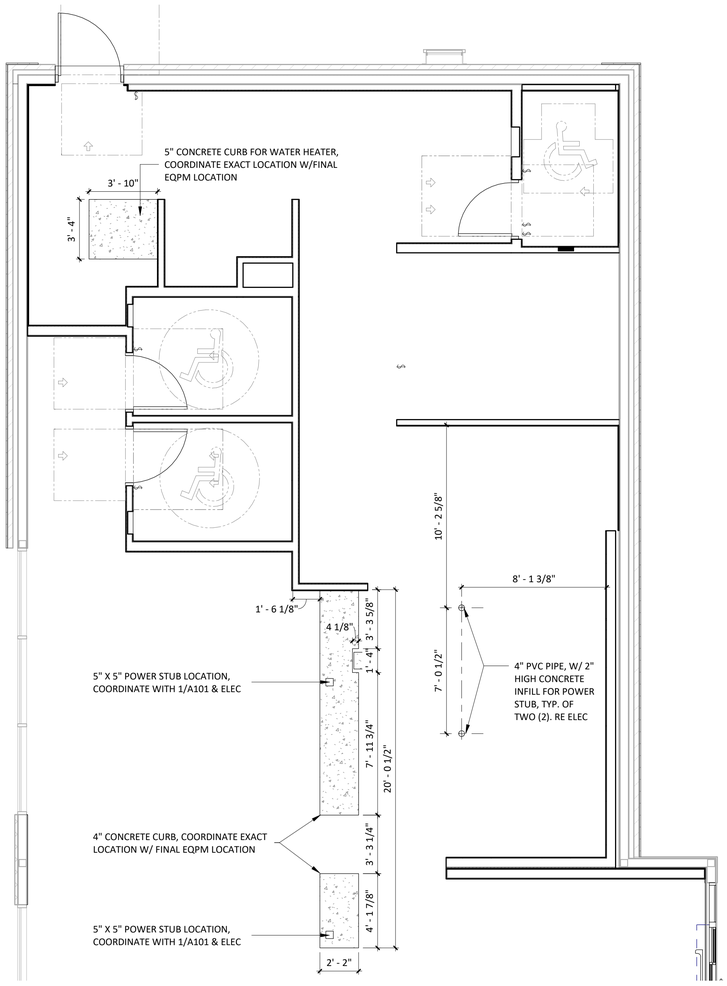
6 A101 **TRENCH DRAIN DETAIL**
1 1/2" = 1'-0"



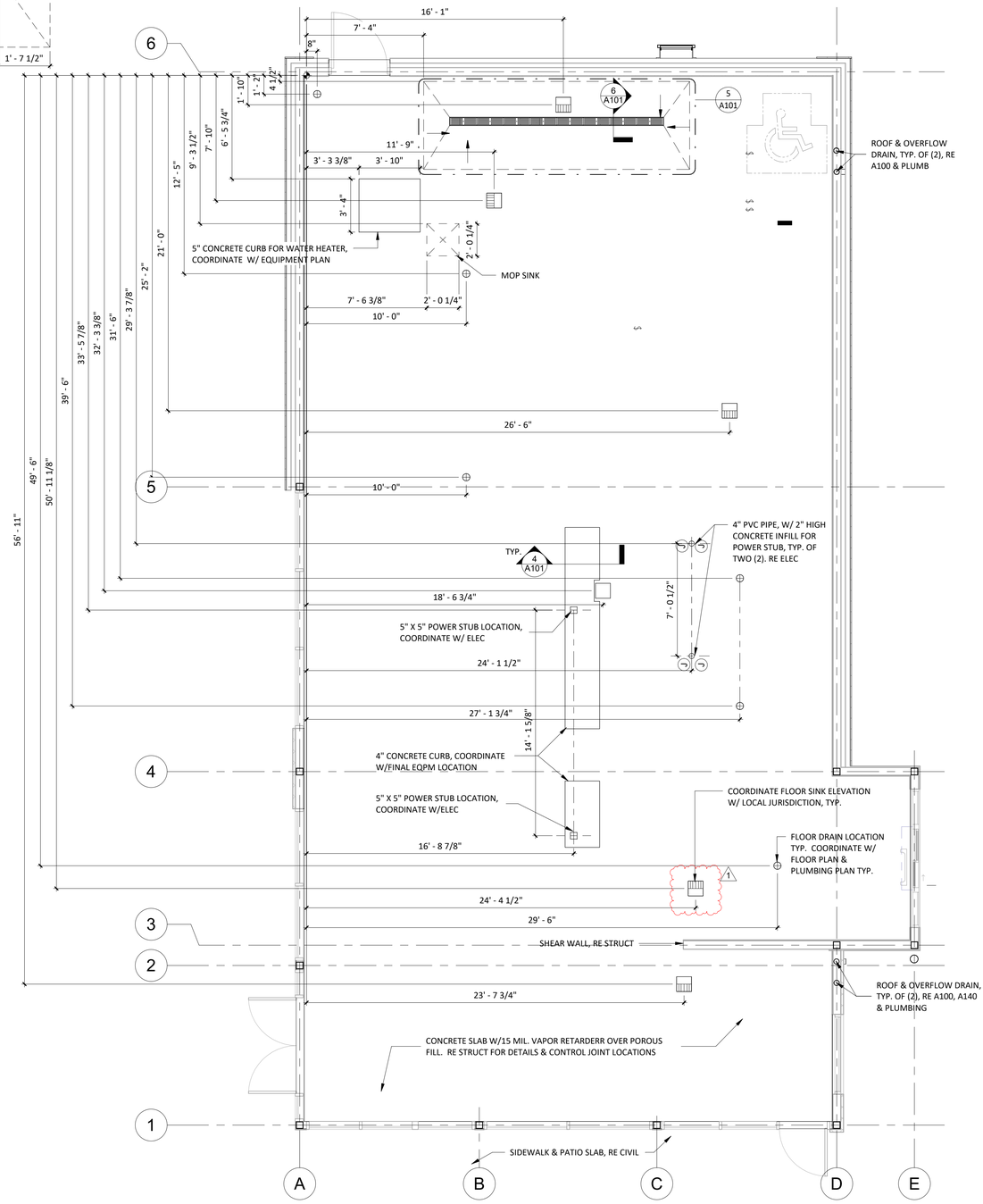
5 A101 **TRENCH DRAIN PLAN DETAIL**
1/2" = 1'-0"



4 A101 **CONCRETE CURB DETAIL**
3/4" = 1'-0"



3 A101 **CURB PLAN**
1/4" = 1'-0"



1 A101 **SLAB WORK PLAN**
1/4" = 1'-0"

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Contents:

SLAB WORK PLAN

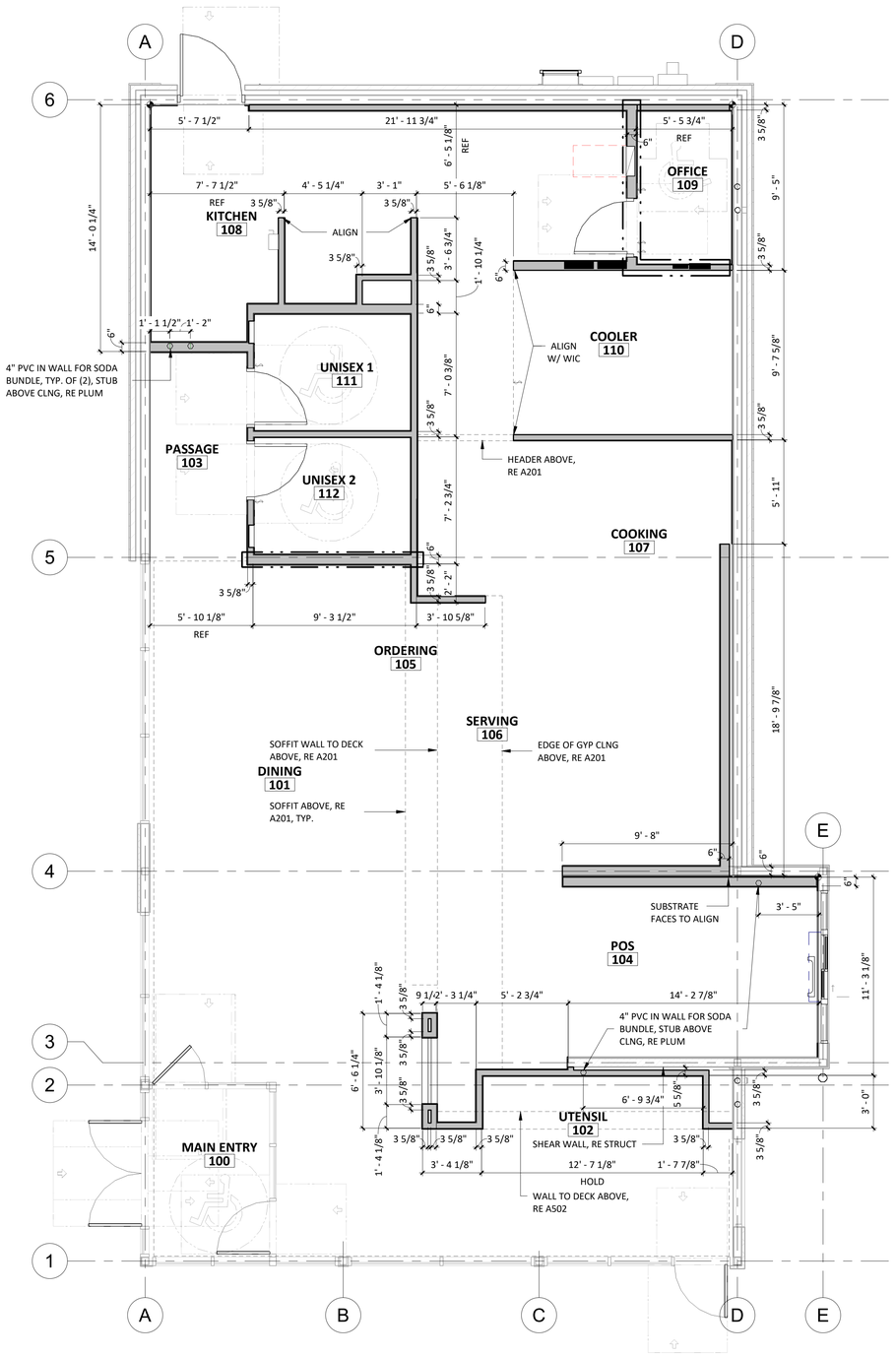
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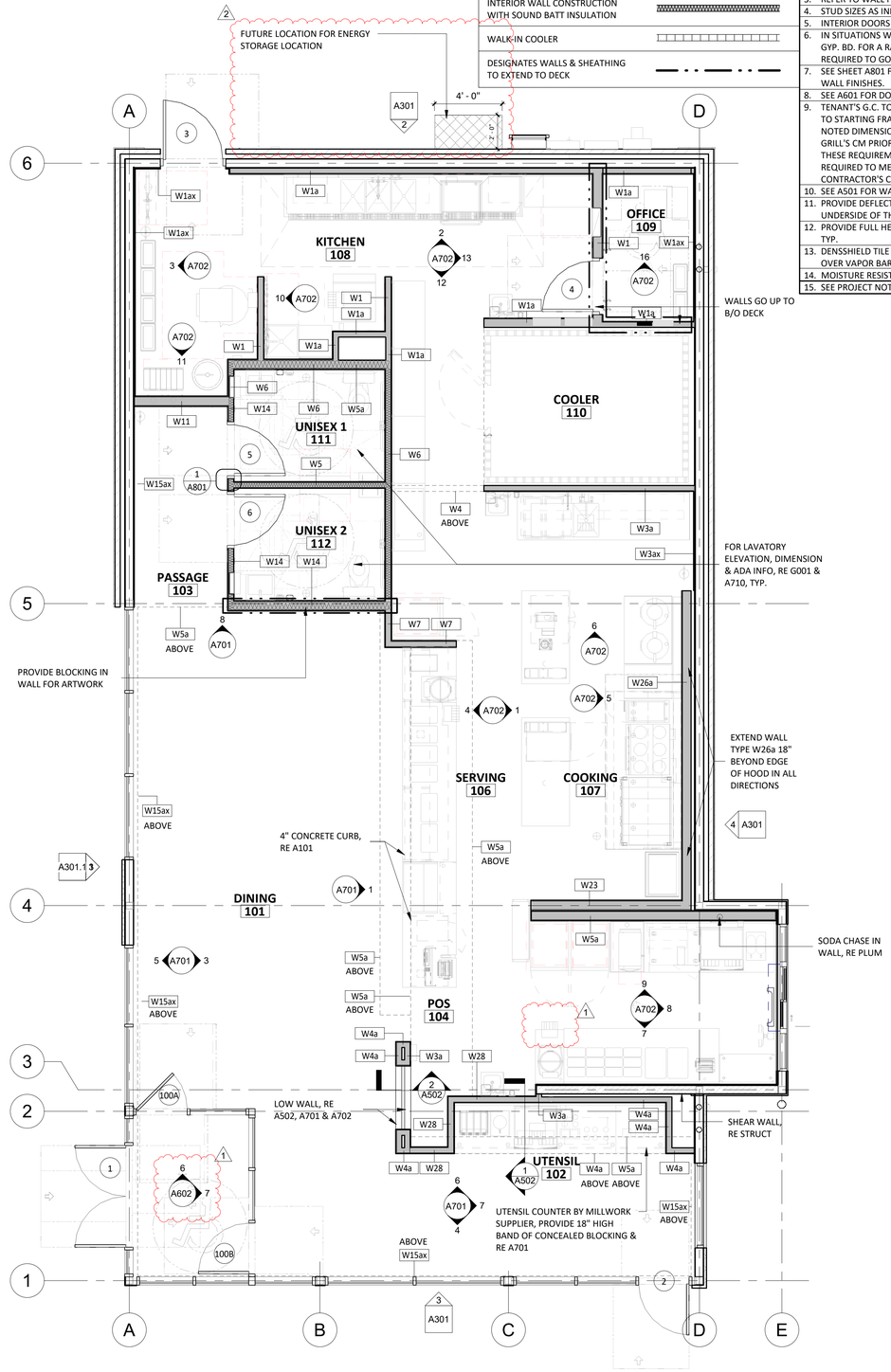
WALL TYPE LEGEND

INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	

GENERAL NOTES

1. ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF STRUCTURE UNLESS NOTED OTHERWISE.
2. DASHED CIRCLE IN RESTROOM INDICATES 5'-0" TURNING DIAMETER REQUIRED BY ADA.
3. REFER TO WALL FINISH SCHEDULE ON A120.
4. STUD SIZES AS INDICATED ON PLAN.
5. INTERIOR DOORS ARE 4" OFF OF PERPENDICULAR WALL U.N.O.
6. IN SITUATIONS WHERE TENANT'S G.C. IS TO PROVIDE TYPE 'X' GYP. BD. FOR A RATED ASSEMBLY, THE TYPE 'X' GYP. BD. IS REQUIRED TO GO BENEATH THE SHEATHING AND FINISHES.
7. SEE SHEET A801 FOR ADDITIONAL SHEATHING BEHIND CERTAIN WALL FINISHES.
8. SEE A601 FOR DOOR TYPES.
9. TENANT'S G.C. TO PERFORM LAYOUT OF ENTIRE SPACE PRIOR TO STARTING FRAMING AND REPORT ANY DESCREPANCIES IN NOTED DIMENSIONS TO ARCHITECT AND CHIPOTLE MEXICAN GRILL'S CM PRIOR TO PROCEEDING. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
10. SEE A501 FOR WALL TYPES.
11. PROVIDE DEFLECTION TRACKS AT WALLS WHICH GO TO THE UNDERSIDE OF THE DECKING, REFER TO DETAIL 3/A501
12. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
13. DENSSHIELD TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.
15. SEE PROJECT NOTES ON COVER SHEET.





ARCHITECTURAL FLOOR PLAN - DIMENSIONS

2 / A110 — 1/4" = 1'-0"

ARCHITECTURAL FLOOR PLAN

1 / A110 — 1/4" = 1'-0"

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Contents:

ARCHITECTURAL FLOOR PLAN

A110

CODED NOTES

1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802 & 11/A801.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RIM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT, REFER TO 17/A801.
5	AT LOCATIONS WHERE THE 4-COMP SINK IS AGAINST A SIDE WALL, PROVIDE STAINLESS STEEL ON WALL TO 4" ABOVE TOP OF 4-COMP SINK. FLASH BOTTOM EDGE OVER 4-COMP SINK BACKSPLASH EDGE, BEND STAINLESS AT INSIDE CORNER SO THERE IS NO JOINT
6	COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
7	G.C. TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT THE ICE MAKER.
8	PROVIDE WATERPROOFING MEMBRANE, REFER TO 4&5/A802. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO 18/A801.
9	PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE, REFER TO SHEET 1/802. G.C. TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10	FRP CLOSURE AT COOLER AIR GAP, REFER TO 14/A801
11	NOT USED
12	OUTSIDE CORNER GUARD BY TMS, REFER TO 13/A801
13	ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH
14	NOT USED
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 9/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	EXTENT OF RESINOUS FLOORING FROM RESTROOM

GENERAL NOTES

1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).
4. SEE PROJECT NOTES ON COVER SHEET.

PLUMBING LEGEND

	FLOOR SINK [FS]
⊕	FLOOR DRAIN
	TRENCH DRAIN

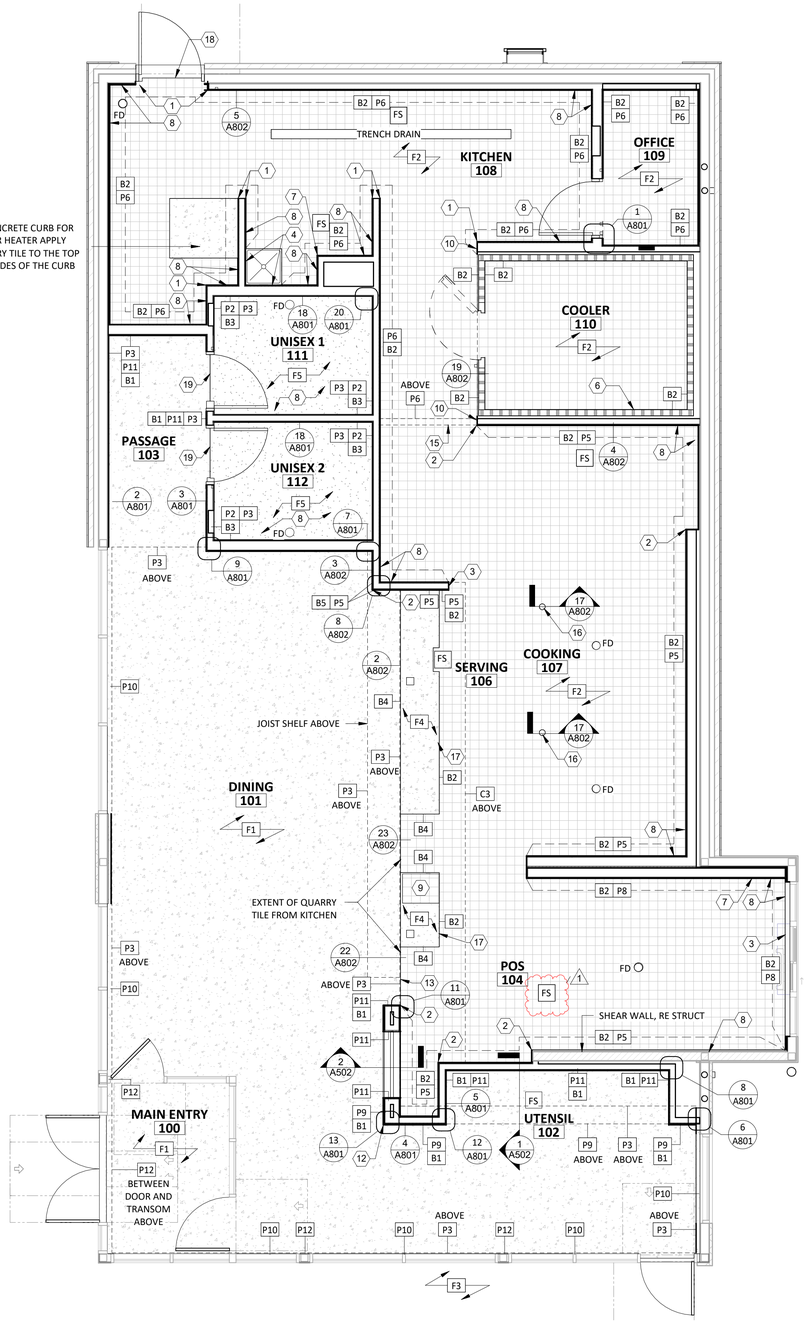
INTERIOR FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE				
				P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)				
				P7	NOT USED				
				P8	CERAMIC TILE - BRONZE ACCENT 3" x 12"				
				P9	SPALTED MAPLE WALL PANEL, HORIZONTAL GRAIN				
				P10	STOREFRONT				
				P11	STONEWOOD WALL PANEL				
				P12	PREFINISHED BRAKE METAL				

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	MAIN ENTRY	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F1	B1		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	B1		C3	10'-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
104	POS	F2	B2/B4	REFER TO PLAN FOR WALL FINISHES	C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
105	ORDERING	F1	B1/B4/B5		C1/C3	STR / ±9-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	±9'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	10'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
109	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	F2	B2		STR	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
111	UNISEX 1	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	UNISEX 2	F5	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
113	PATIO						

5" CONCRETE CURB FOR WATER HEATER APPLY QUARRY TILE TO THE TOP AND SIDES OF THE CURB



FINISH PLAN

1/4" = 1'-0"

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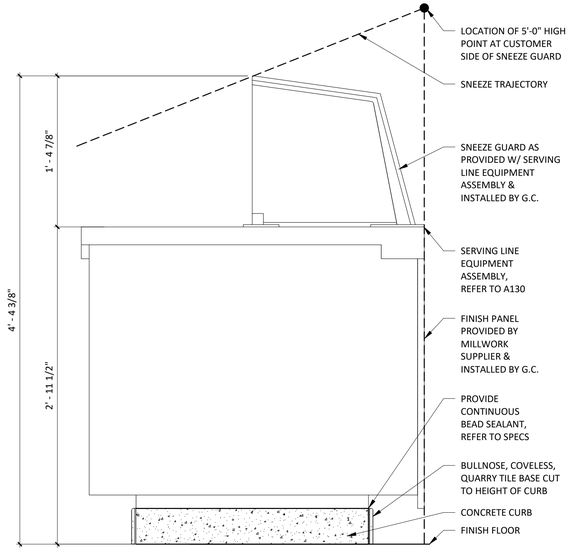
Project No.: 05-5119

Contents: FINISH PLAN

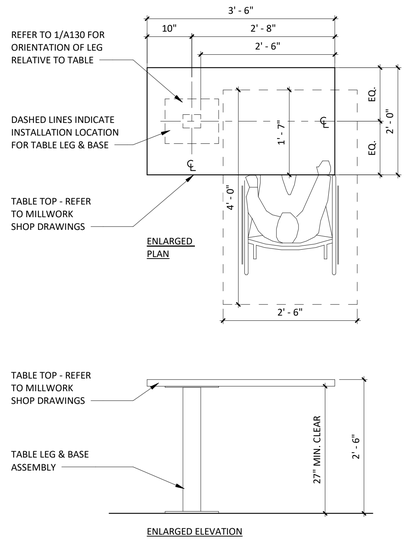
A120

GENERAL NOTES

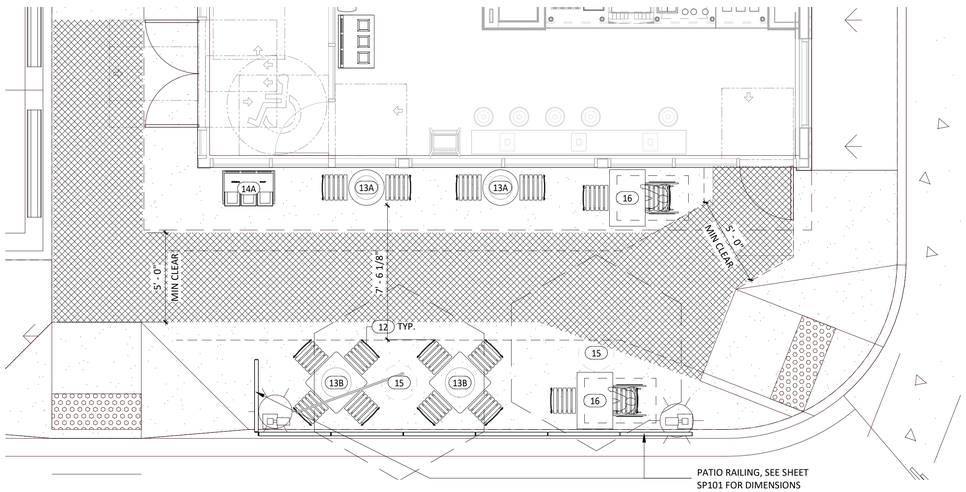
1.	ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
2.	ALL FURNITURE TO BE SQUARE/PARALLEL TO TENANT SPACE/WALLS AS SHOWN ON PLANS
3.	SEE PROJECT NOTES ON COVER SHEET.



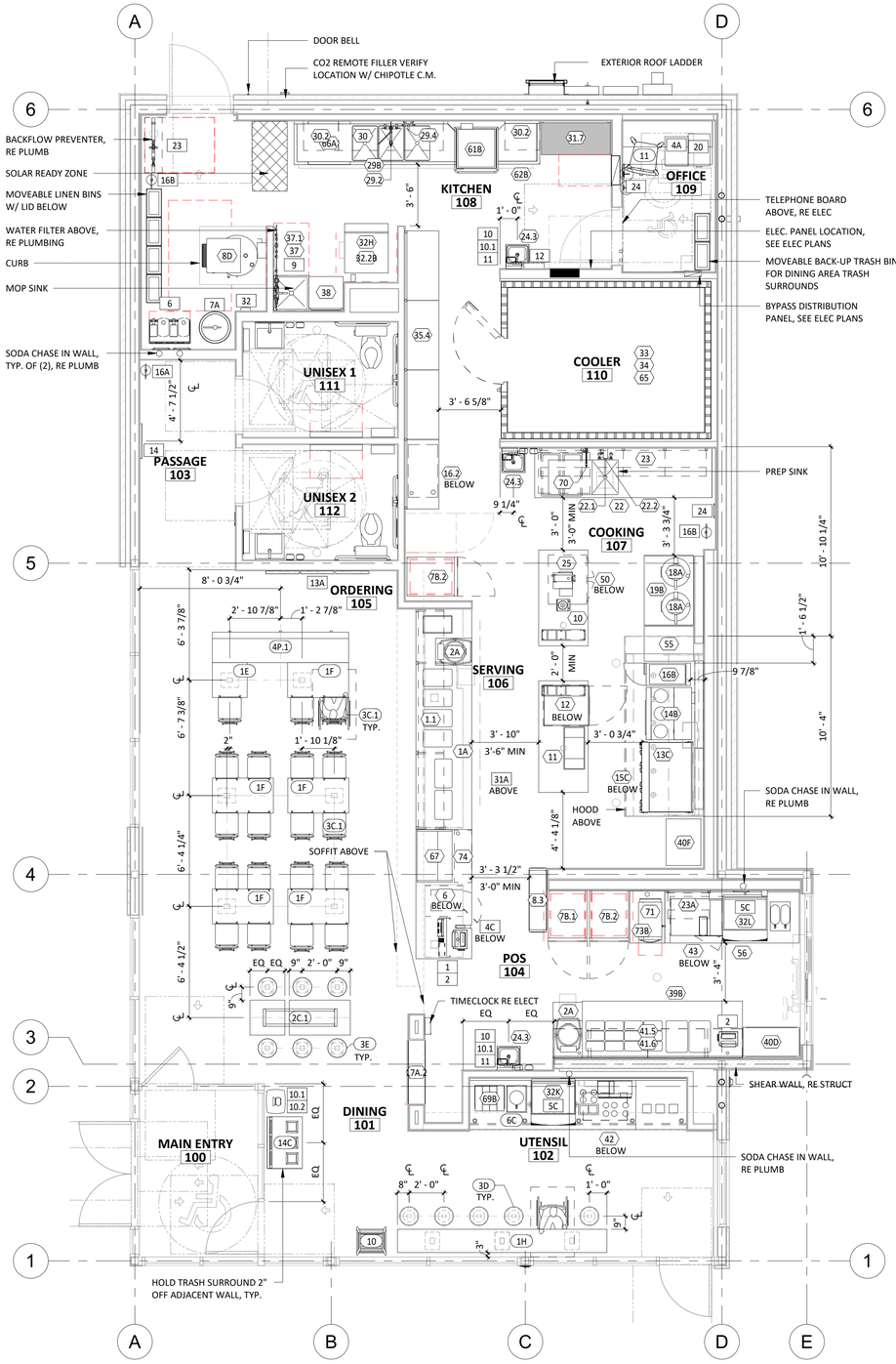
4 A130 **DETAIL @ SERVE LINE SNEEZE GUARD**
1 1/2" = 1'-0"



3 A130 **DETAIL @ ACCESSIBLE TABLE**
3/4" = 1'-0"



2 A130 **FURNITURE, FIXTURE & EQUIPMENT PATIO PLAN**
1/4" = 1'-0"



1 A130 **FURNITURE, FIXTURE & EQUIPMENT PLAN**
1/4" = 1'-0"

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Contents: FF&E PLAN

A130

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.1	Upright Beverage Cooler, Single Door, Hinge Left	Varies	Varies - Solid Door	1	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	2	KES	KES	●				
8.3	M4.5 Chip Shelf	1 W West Equipment & Furn Co.	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Right	Delfield	77x34in Carving Station-RT	1	KES	KES	●				
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
13C	Garland Grill - 48in - Electric	Garland	ECG-48R	1	KES	KES	●				
14B	Range 6 Burner - Electric	Imperial	IR-6-E	1	KES	KES	●				
15C	Garland Grill Stand 48x31in	Garland	SCG-48SC	1	KES	KES					
16.2	Grease Caddy	Varies	Chipotle Grease Caddy - LH	1	KES	KES					
16B	Fryer - Electric	Imperial	IFS-40-E	1	KES	KES	●				Mounted On Legs, G.C. To Pin Front Legs To Floor
17B	Cook Line Stand Off - 60x6	Nationwide Fab; Marlo Mfg	CHP-5WS-6	2	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location
17C	Retherm Line Stand Off - 42x6	Nationwide Fab; Marlo Mfg	CHP-42WS-6	1	KES	KES					Mount Top of Flat Surface at 32" AFF, Install Screws at Each Stud Location
18A	Electric Rice Cooker	Tiger	JIW-A540	2	KES	KES	●				Final Connection by GC. RE: Electrical Drawings
19B	Rice Cooker Stand - Electric	Nationwide Fab; Marlo Mfg	34x48x30	1	KES	KES					
22	Prep Sink - Corner - Left	1 W West Equipment & Furn Co.	S1-122x34-US-FF-L	1	KES	GC				●	
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
23A	2 Shelves - 30in	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	3	KES	GC				●	Provided with B-0199-06-F10, 1.0 GPM Aerator, Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	3	KES	GC			●		
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-1220-8-8-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1D	Ice Maker - Remote Condenser	Scotsman	ERC311-32	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.1E	Ice Maker - Remote Condenser	Scotsman	ERC111-1	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2B	Ice Maker - Storage Bin	Scotsman	B530S	1	KES	KES				●	
32.3	Icemaker- Filter	Cuno	Bev 190	3	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	3	KES	KES			●		
32H	Ice Maker For B.O.H. Ice Bin	Scotsman	CO830MR	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32K	Ice Maker Mounted On Soda Machine - Air Cooled	Scotsman	CO530MA	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32L	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Scotsman	CO530MR	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9ft 6in - Standard	1 Thermalrite by Everidge	CHP912SR-RS	1	WCS	GC	●			●	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x9	Cambro (Camshelving)	CHP912ER	1	KES	KES					
35.4	Dry Storage Racks 23x192x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
40D	Holding Shelf	1 W West Equipment & Furn Co.	TGS-39X20X80-B	1	KES	KES	●				
40F	M4.5 - Filler Stand At Range	Select Stainless	24x32x36	1	KES	KES					
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
43	Beverage Cooler Backbar 36in	Glasstender	LP36X-SS(X)	1	KES	KES	●				
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	1 W West Equipment & Furn Co.	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Chipotlane	W West Equipment & Furn Co.	TS-36x92.5x36	1	KES	GC	●			●	
61B	Dish Machine (w/Pump)	Hobart	AM16SCB	1	KES	KES	●		●	●	
62B	Dish Table 30x30	1 W West Equipment & Furn Co.	CDT-30X30X36.5-B	1	KES	GC					
65	Utility Cart (Not Shown)	Select Stainless	30SU-22-14-C4-TUBS-CUSTOM	1	KES	GC					Provided As Part Of The WIC Shelving
66A	Drop-Off Table - 29x30in	1 W West Equipment & Furn Co.	TS-29x30x31-US-C	1	KES	KES					
67	Refrigerated Counter Case, Self-Serve	Structural Concepts	CO3324R-UC	1	KES	KES					
69B	M4.0 - Simplicity Bubbler Mini-Quad	Crathco	CS-4E-16	1	KES	GC	●			●	
70	Speed Fill Faucet	T&S	B-0432 MOD	1	KES	GC			●		
71	Quesadilla Press	Turbochef	Sota Touch	1	KES	KES	●				
73B	24" TurboChef Table	1 W West Equipment & Furn Co.	24X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

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05-5119

Contents:
EQUIPMENT SCHEDULE

A131

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	1	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	5	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2C.1	M4.0 - Bar Height Table 6-Top	1	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	19	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	5	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	6	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4P.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				●	Bins and Sign Hooks Provided by Tundra in Smallwares Package, Install Hooks on Back of Doors
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	16	KES	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13A	24in Round Bistro Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
14A	3 Bin Trash/Recycling Surround - Exterior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
15	Patio Umbrella	2	KES	GC					
16	Accessible Patio Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Installed in Office
4C	Smart Safe	1	TSS	TSS	●				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
5C		2	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf	1	SPS	SPS	●		●		
7A	Bulk CO2 Tank	1	CO2	CO2	●				GC To Secure Cylinders To Wall With Grade 30 Galvanized Steel Chain At 2/3 The Height Of The Cylinder. Attach To Wall With Stainless Steel Quick Link And Screw Eye
8D	Water Heater (Electric Heat Pump Tank)	1	T	GC	●		●		Refer To MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	3	WA	GC					
10.1	Hand Sanitizer Dispenser	4	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	3	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
13A	M4.0 - Artwork Panel - Plaster 2Hx, Start Pattern At Column 1	1	TAS	GC					Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	2	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	14	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
23	Backflow Preventer	1					●	●	See MEP Sheets for Details
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

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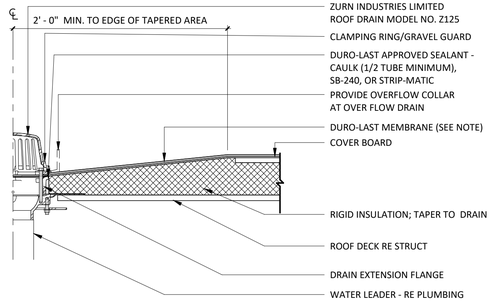
Checked: CL

Project No.: 05-5119

Contents:

EQUIP. & FURNITURE SCHEDULE

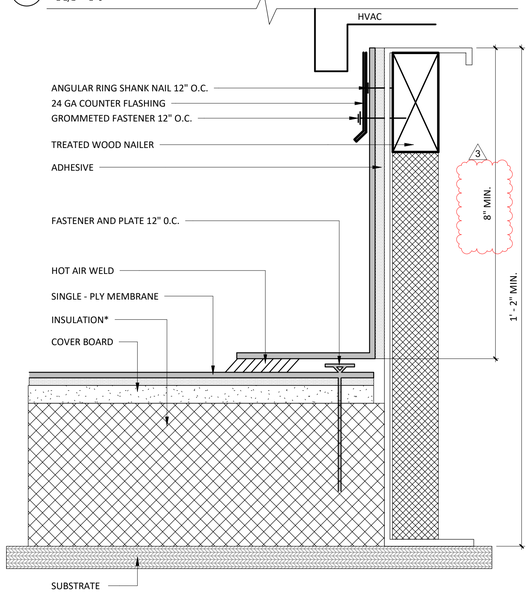
A132



NOTE:
DURO-LAST MEMBRANE MUST EXTEND BEYOND THE INSIDE OF CLAMPING RING. VERIFY OPENING WHERE WATER PASSES THROUGH THE MEMBRANE IS NOT SMALLER THAN THE OPENING OF THE DRAIN.

ROOF DRAIN DETAIL

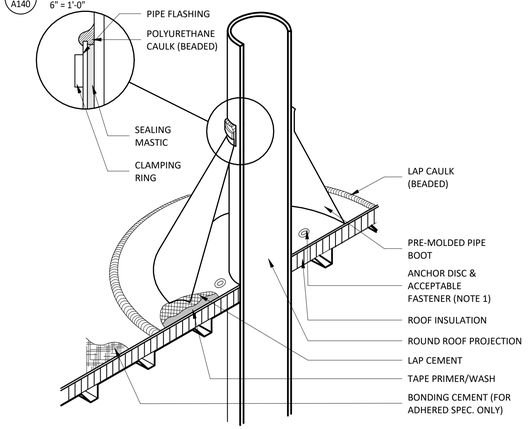
4 / A140 — 1 1/2" = 1'-0"



NOTES:
1. USE PREFABRICATED OUTSIDE CORNERS.
2. *GLASS - FACED POLYISO INSULATION IS OPTIONAL AND MAY NOT BE REQUIRED ON EVERY PROJECT. IF INSULATION IS NOT REQUIRED, THE MEMBRANE MUST BE ADHERED TO AN APPROVED SURFACE.

CURB FLASHING

3 / A140 — 6" = 1'-0"



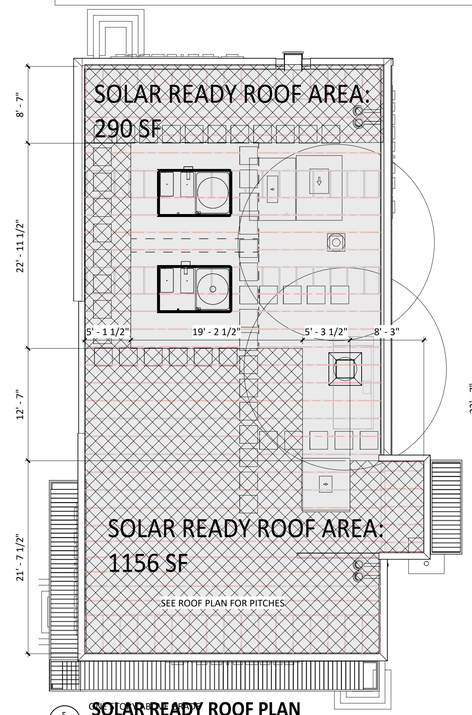
NOTE:
1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING LAP CEMENT.

BOOT DETAIL

2 / A140 — 1/2" = 1'-0"

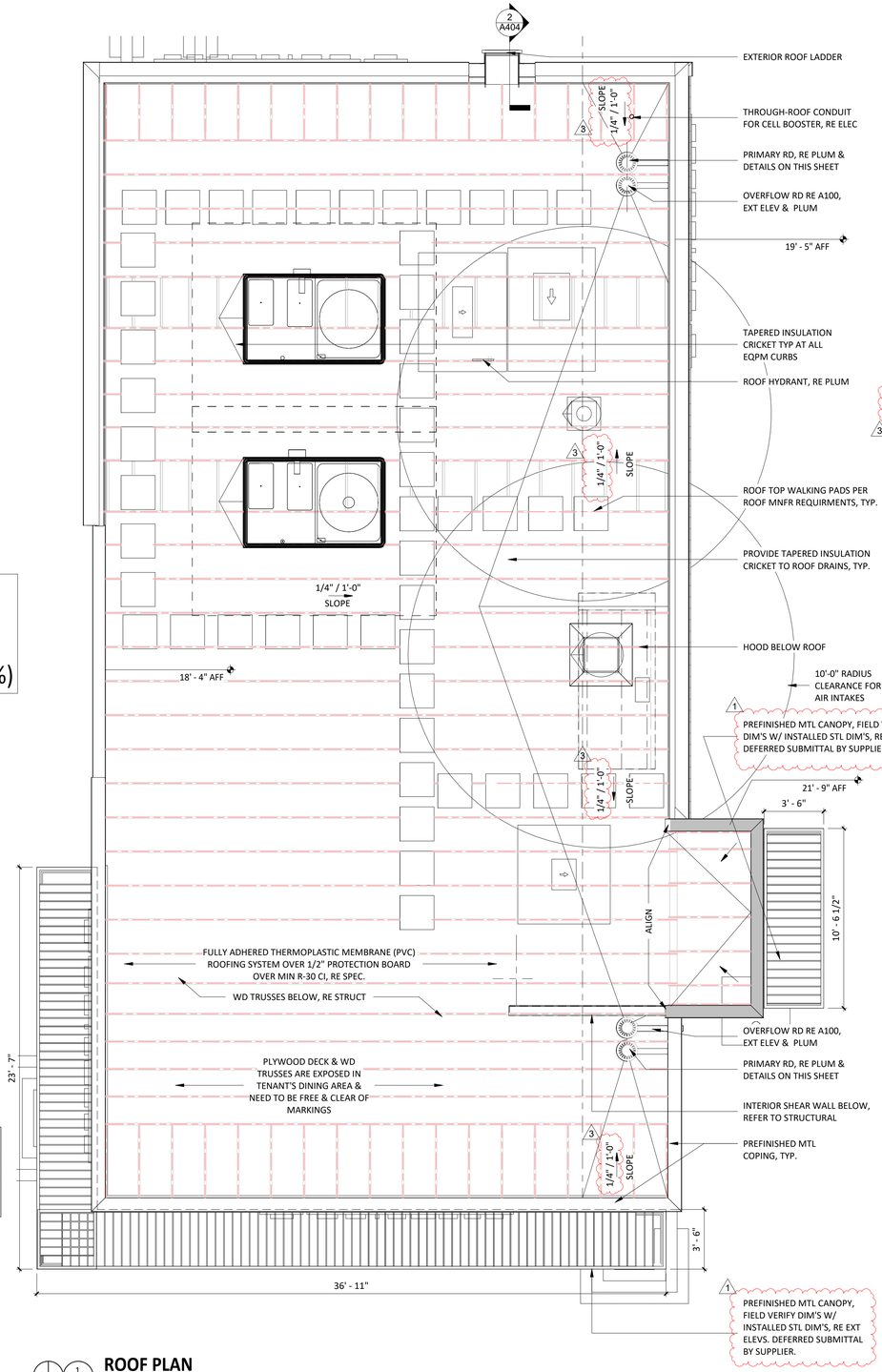
TOTAL ROOF AREA: 2245 SF

SOLAR READY ROOF AREA:
1446 SF (MIN REQ'D 1347 SF (60%)



SOLAR READY ROOF PLAN

5 / A140 — 1/8" = 1'-0"



ROOF PLAN

1 / A140 — 1/4" = 1'-0"

HVAC EQUIPMENT

DESCRIPTION	SUPPLIED BY	INSTALLED BY	REMARKS
EXHAUST FANS & CURBS	HS	GC	
MAKE UP AIR UNIT & CURBS	HS	GC	
ROOF TOP UNITS & CURBS	HES	GC	
TEST & BALANCE SYSTEM	TAB	-	FURNISH HVAC TEST & BALANCE PER TENANT'S NATIONAL ACCOUNT PROGRAM.

GENERAL NOTES

1.	SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
2.	SEE MECHANICAL PLANS FOR ROOFTOP EQUIPMENT.
3.	COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
4.	DIMENSIONS FOR ROOF TOP EQUIPMENT WITH CURBS IS TO THE OUTSIDE FACE OF THE CURB. DIMENSIONS FOR EQUIPMENT WITHOUT CURBS ARE TO THE CENTER OF THE UNIT. ALL DIMENSIONS ARE FOR REFERENCE ONLY. ROOFING CONTRACTOR TO ADJUST AS NECESSARY IN FIELD. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT.
5.	JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED. IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.
6.	SEE M700 FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
7.	PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8.	PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
9.	LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.
10.	SEE PROJECT NOTES ON COVER SHEET.
11.	GC. TO SEAL ALL PERIMETERS, PENETRATIONS, AND JOINTS IN THE DECK AIRTIGHT.

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Contents:

ARCHITECTURAL ROOF PLAN

A140

GENERAL NOTES

1.	ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC.
3.	KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
4.	ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
5.	MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
6.	PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
7.	REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS.
8.	UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
9.	ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
10.	LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
11.	ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/ OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
12.	ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TIGHT TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
13.	ALL WATER LINES AND EXPOSED PVC SHALL BE INSTALLED IN TRUSS SPACE AND PAINTED VICTORIAN PEWTER.
14.	ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
15.	SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
16.	ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
17.	FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN
18.	ALL CONDUIT AND PIPE PENETRATIONS OF THE SERVING LINE SOFFIT ARE TO BE HELD TIGHT TO THE DECK. PLEASE CONSULT WITH THE CHIPOTLE CM SHOULD ANY CONFLICTS ARISE.
19.	BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
20.	ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 4/A210 AND PLUMBING DRAWINGS FOR DETAILS.
21.	REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
22.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
23.	ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C.
24.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C.
25.	SECURITY CAMERA LOCATIONS ARE ONLY APPROXIMATE LOCATIONS. FOR GUIDANCE ON THE SPECIFIC LOCATION/ORIENTATION OF THESE CAMERAS, REFER TO THE ENVYSION INSTALLATION GUIDE
26.	RE A120 FOR FINISH SCHEDULE.
27.	SEE COVER SHEET FOR PROJECT NOTES.

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	6	SSS	SSS	●				

CONDUIT GUIDELINES

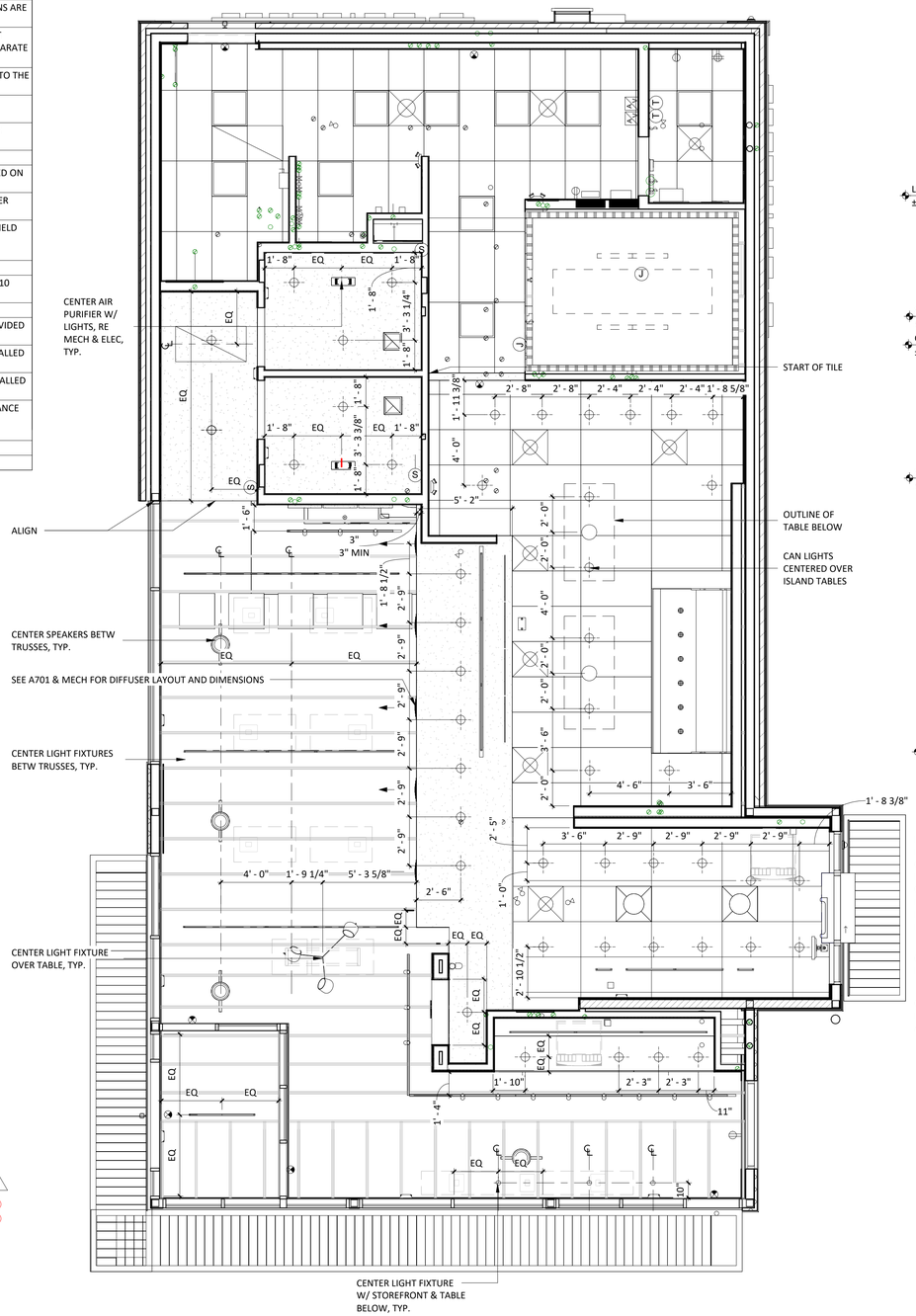
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

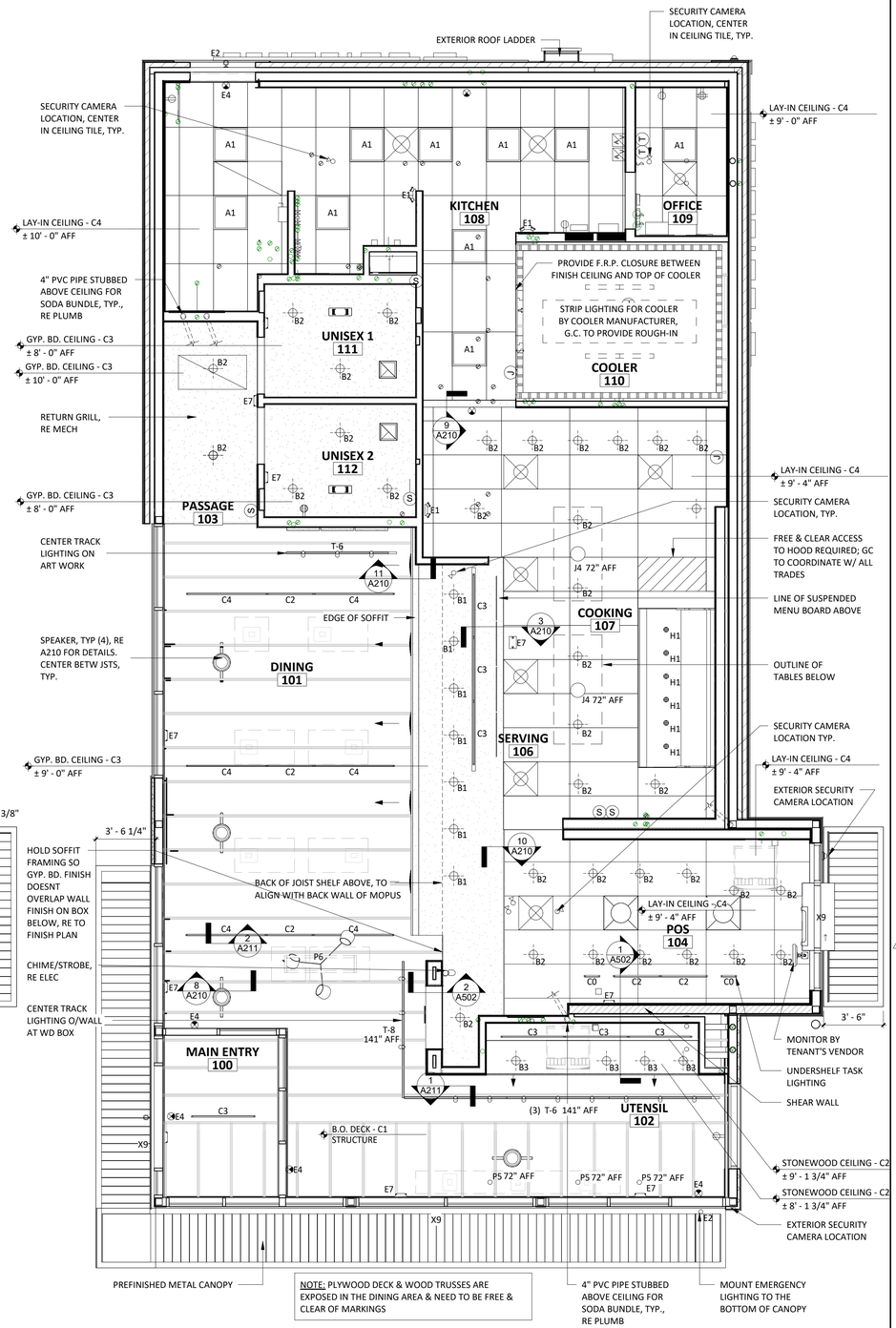
ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	4	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
	2	SUSPENDED		SEE SHEET E100
A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	37	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	4	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	5	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	16	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
C4	6	SURFACE	LOW PROFILE LED 5FT	SEE SHEET E100
E1	3	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	4	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	7	VARIOUS	WHITE EXIT LIGHT - STANDARD GREEN LETTERS	SEE SHEET E100
E7	10	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
G4	4	FLOOR	PATIO LIGHT POLE	SEE SHEET E100
H1	24	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	3	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	1	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	14	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-6	4	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
T-8	1	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100
X9	4	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100



3 A201 **DIMENSIONED REFLECTED CEILING PLAN**
1/4" = 1'-0"



1 A201 **REFLECTED CEILING PLAN**
1/4" = 1'-0"

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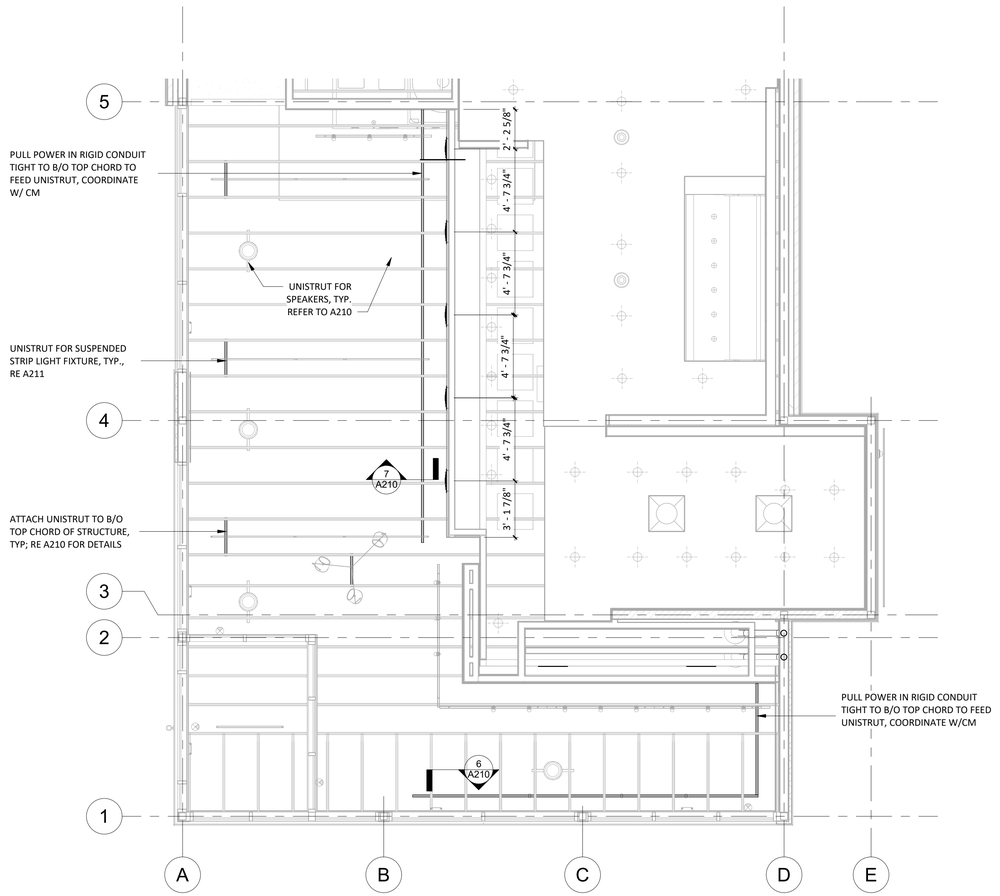
05/09/2024	PERMIT SET

Revisions:

#		
1	08/07/2024	PERMIT COMMENTS

Drawn: EYW
Checked: CL
Project No. 05-5119
Contents: REFLECTED CEILING PLAN

A201



1 A202 **UNISTRUT AND DUCTWORK LAYOUT**

1/4" = 1'-0"

Consultant:

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
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8968 E. 46TH AVE
DENVER CO 80238

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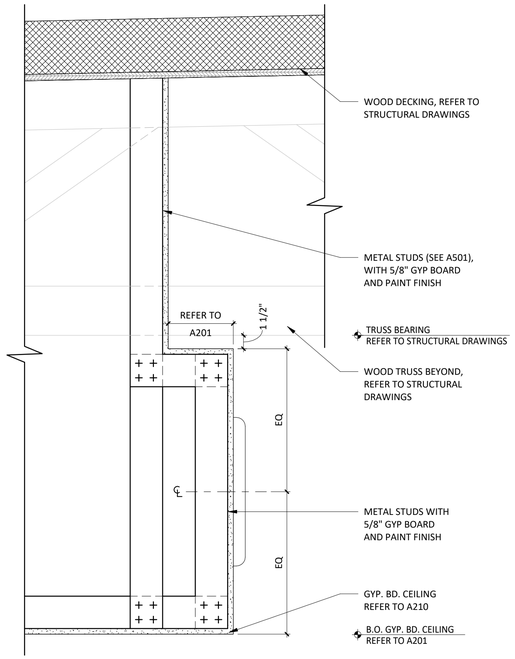
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Project No.: 05-5119

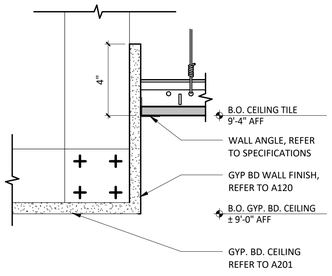
Contents:

REFLECTED CEILING & UNISTRUT PLAN

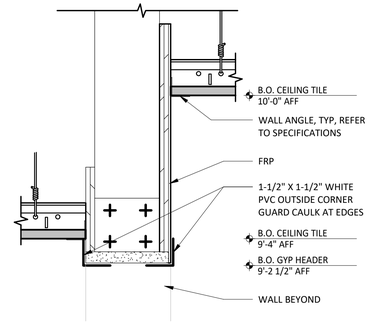
A202



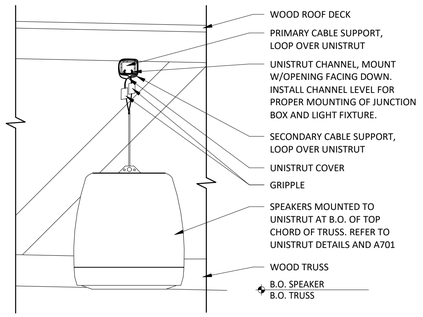
11 / A210 **JOIST SHELF DETAIL**
1 1/2" = 1'-0"



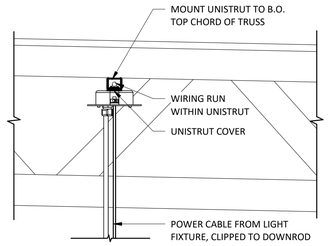
10 / A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



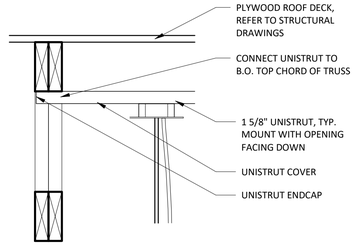
9 / A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



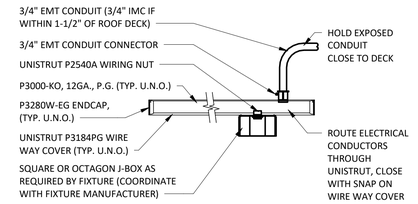
8 / A210 **SPEAKER INSTALLATION**
1 1/2" = 1'-0"



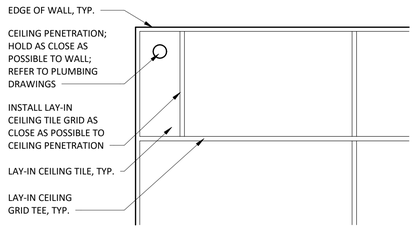
7 / A210 **UNISTRUT DETAIL**
1 1/2" = 1'-0"



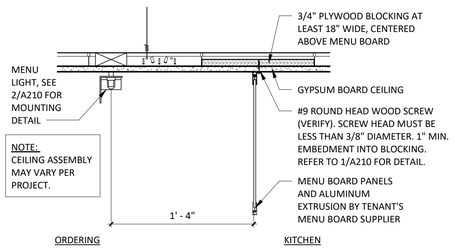
6 / A210 **TYP. UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



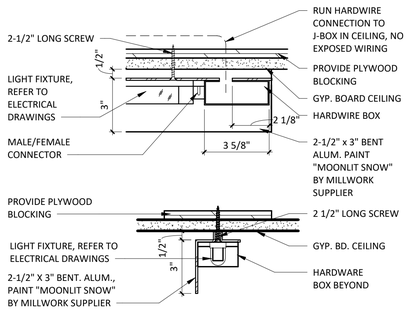
5 / A210 **UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



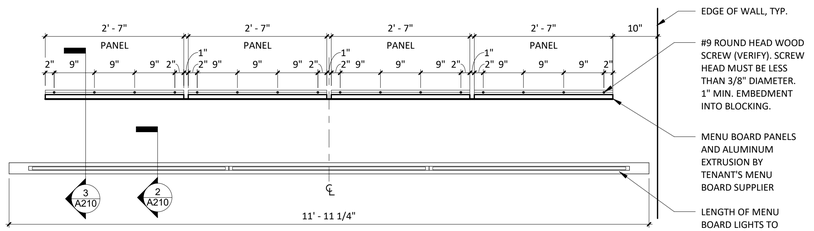
4 / A210 **LAY-IN CEILING PENETRATION - PLAN DETAIL**
3/4" = 1'-0"



3 / A210 **MENU BOARD DETAIL**
1 1/2" = 1'-0"



2 / A210 **MENU BOARD / ACCENT LIGHT DETAILS**
3" = 1'-0"



1 / A210 **MENU - SCREW PATTERN PLAN**
3/4" = 1'-0"

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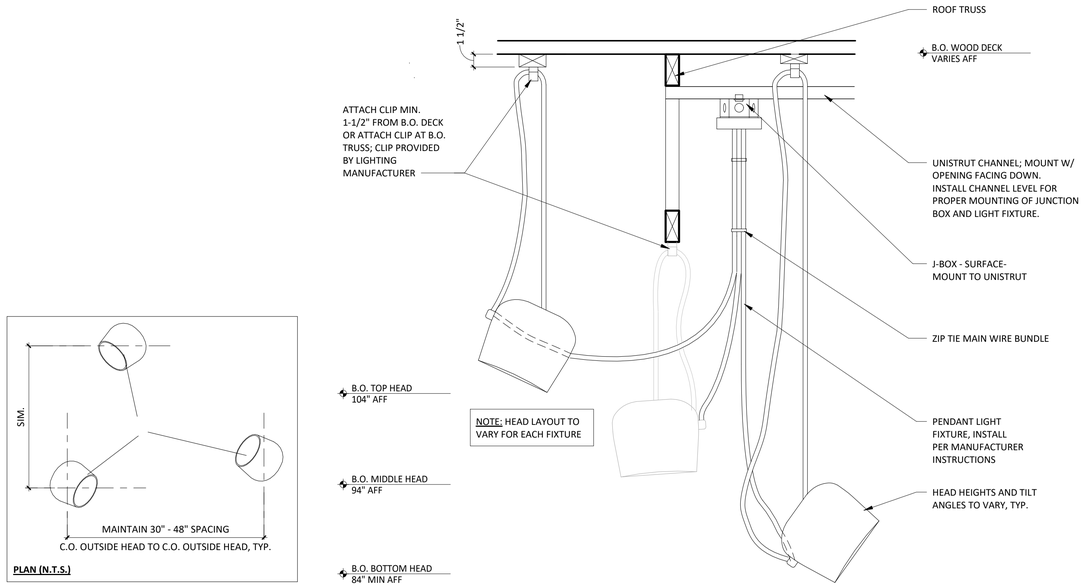
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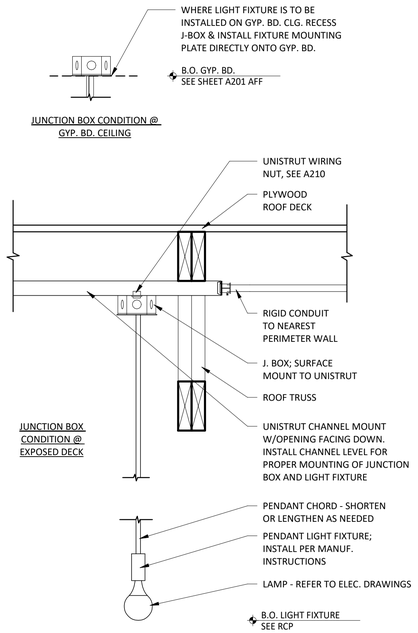
Contents:
CEILING DETAILS

A210



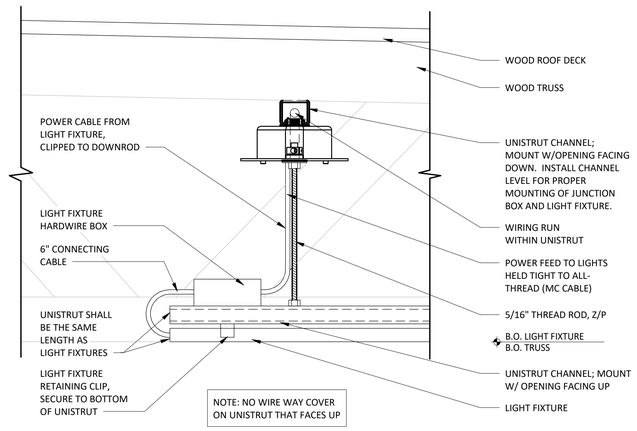
4 A211 SUSPENDED LIGHT FIXTURE

1 1/2" = 1'-0"



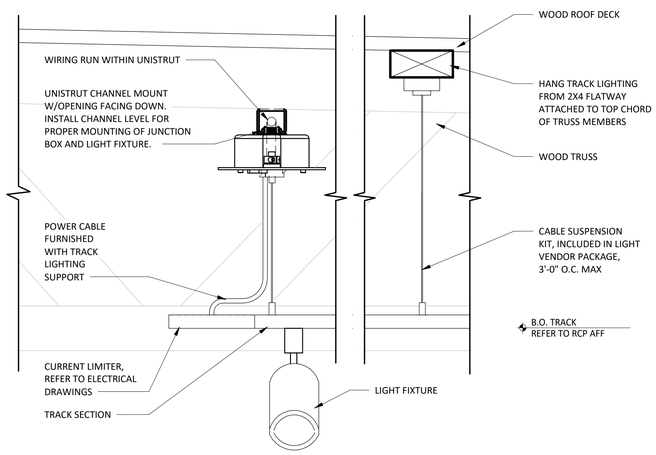
3 A211 PENDANT LIGHT FIXTURE

1 1/2" = 1'-0"



2 A211 SUSPENDED STRIP LIGHT CONNECTION DETAIL

3" = 1'-0"



1 A211 SUSPENDED TRACK LIGHT CONNECTION DETAIL

3" = 1'-0"

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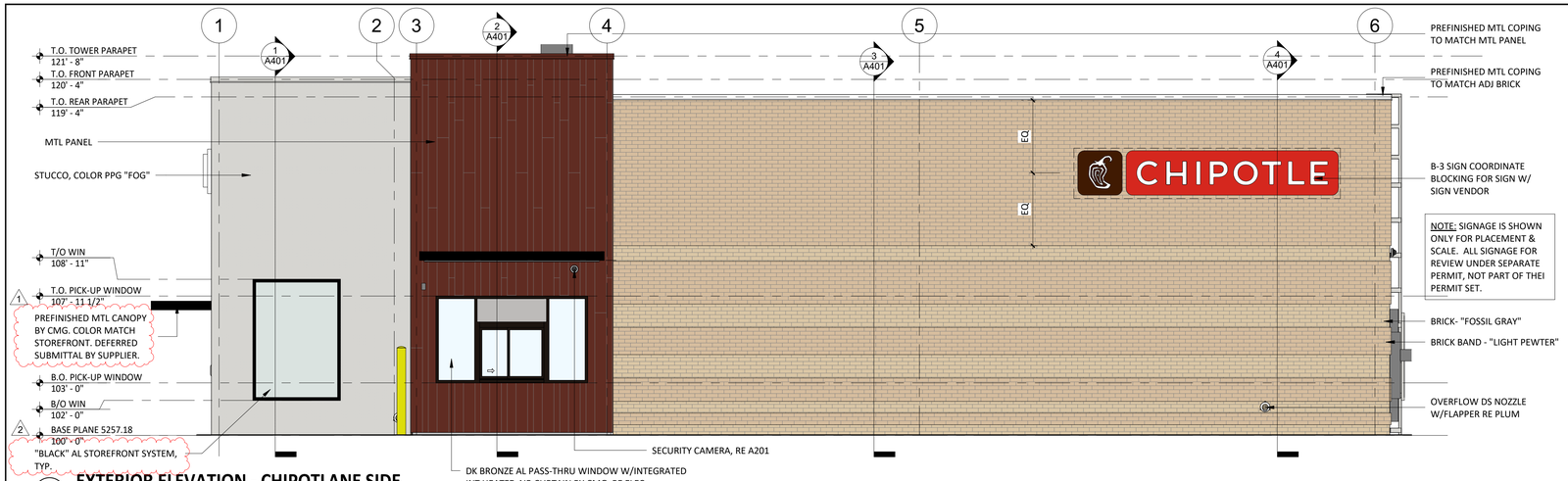
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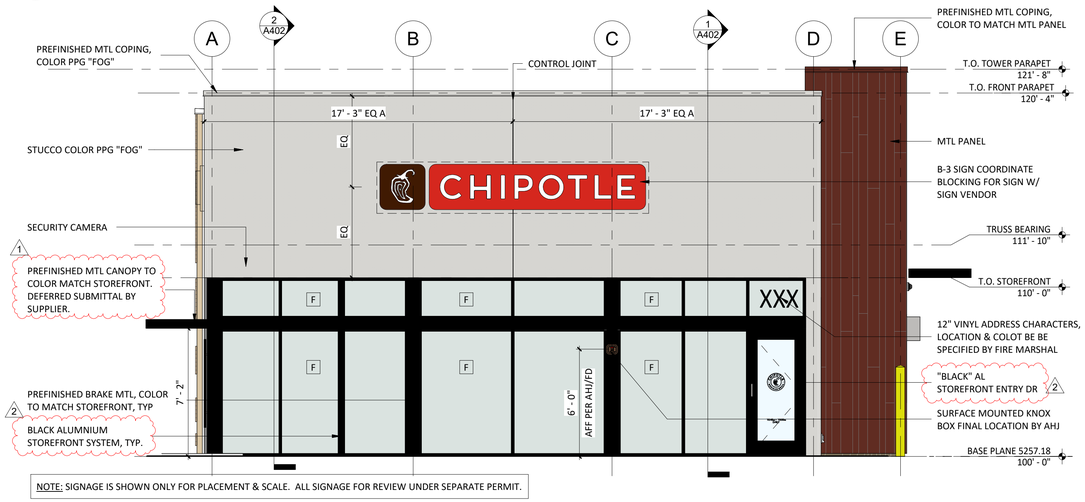
Contents:

LIGHTING DETAILS

A211

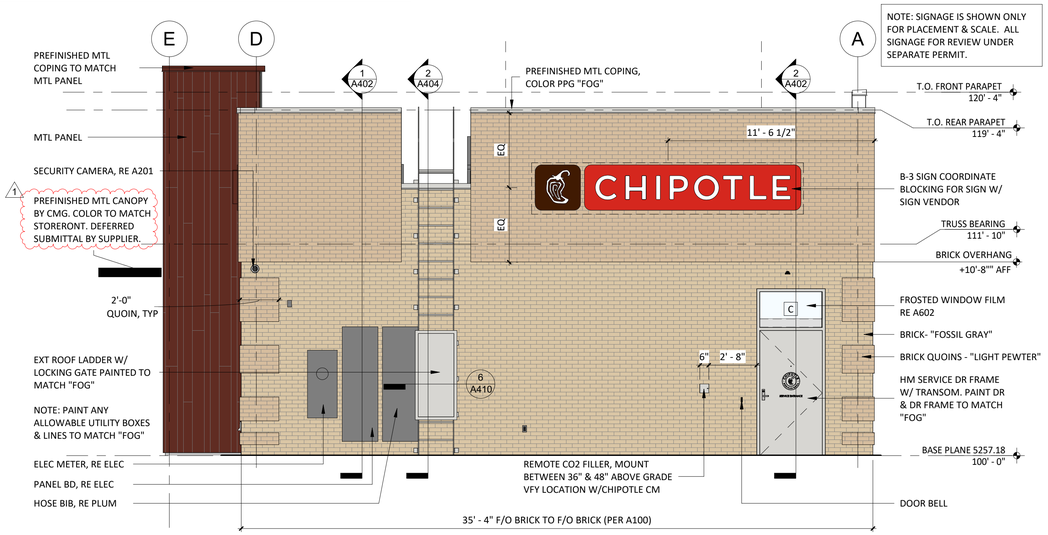


4 A301 **EXTERIOR ELEVATION - CHIPOTLANE SIDE**
1/4" = 1'-0"



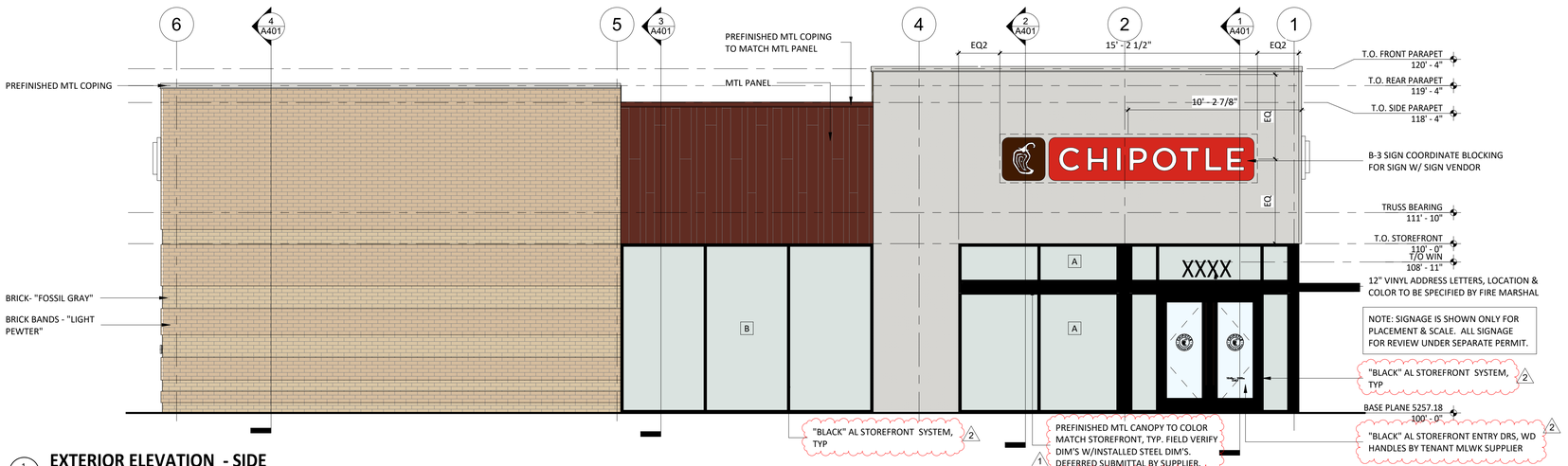
NOTE: SIGNAGE IS SHOWN ONLY FOR PLACEMENT & SCALE. ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT.

3 A301 **EXTERIOR ELEVATION - FRONT**
1/4" = 1'-0"



NOTE: SIGNAGE IS SHOWN ONLY FOR PLACEMENT & SCALE. ALL SIGNAGE FOR REVIEW UNDER SEPARATE PERMIT.

2 A301 **EXTERIOR ELEVATION - REAR**
1/4" = 1'-0"



1 A301 **EXTERIOR ELEVATION - SIDE**
1/4" = 1'-0"

GENERAL NOTES

1. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.

FINISH LEGEND

	FACE BRICK MANUFACTURER: SUMMIT BRICK COMPANY COLOR: LIGHT PEWTER MORTAR: GREY
	FACE BRICK MANUFACTURER: SUMMIT BRICK COMPANY COLOR: LIGHT PEWTER MORTAR: GREY
	PAINT COLOR STUCCO, REAR DOOR, LADDER MANUFACTURER: PPG COLOR: LIGHT PEWTER
	STOREFRONT MANUFACTURER: ARCADIA COLOR: BLACK
	DRIVE-THRU TOWER MANUFACTURER: ARCH FAB EXTRUDED ALUMINUM PANEL SYSTEM COLOR: FAUX CORTEN
	STOREFRONT GLAZING SOLARBAN 60 SOLAR CONTROL LOW-E GLASS
	CONTROL JOINT COLOR: CLEAR ANODIZED

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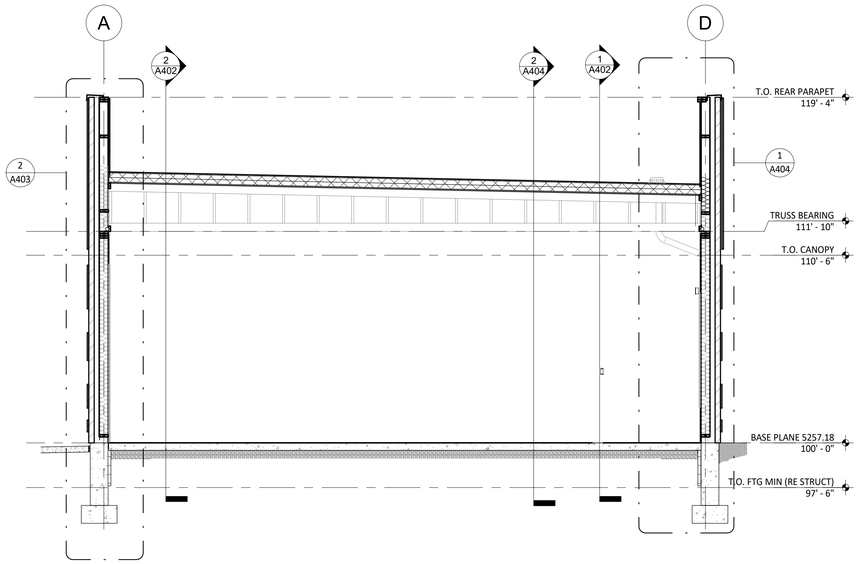
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05-5119

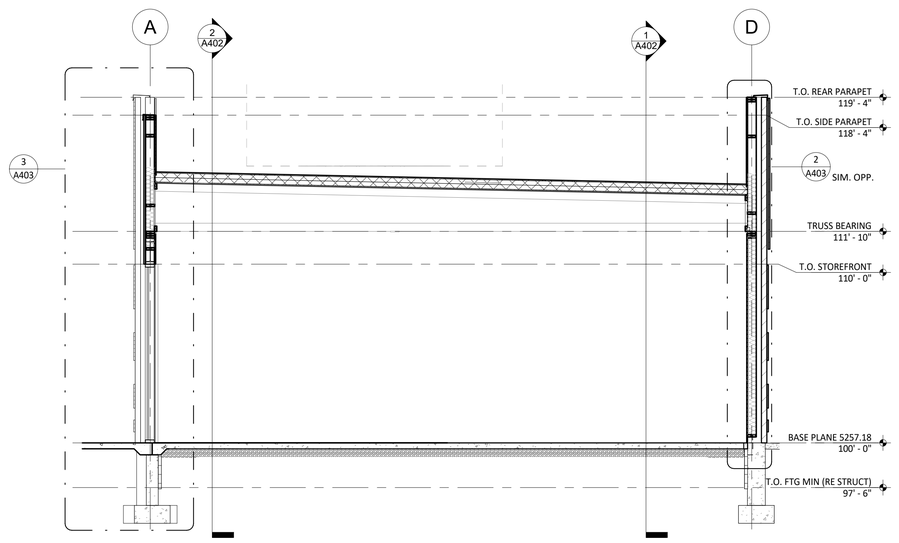
Contents:
EXTERIOR ELEVATIONS

A301



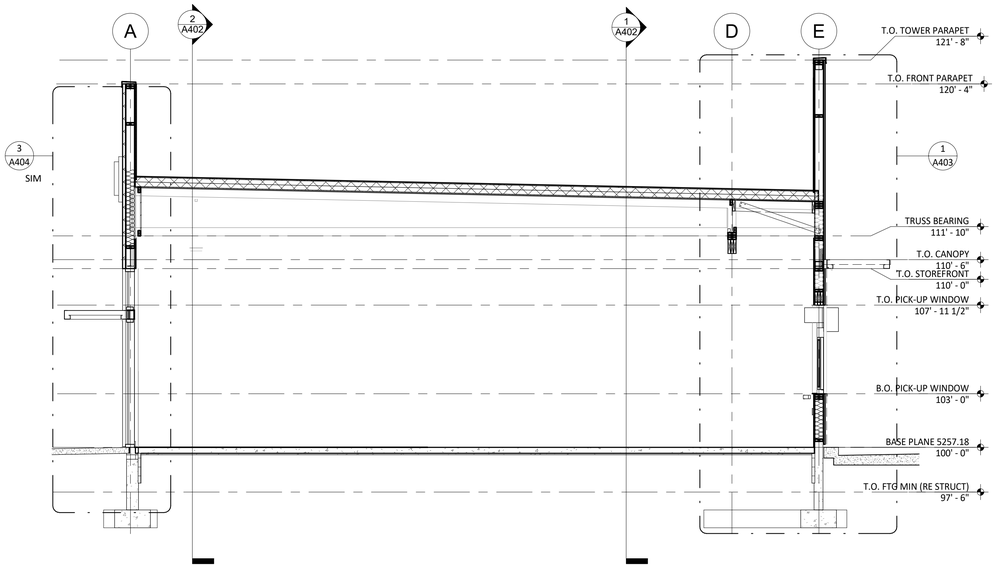
4 A401 **BUILDING SECTION**

1/4" = 1'-0"



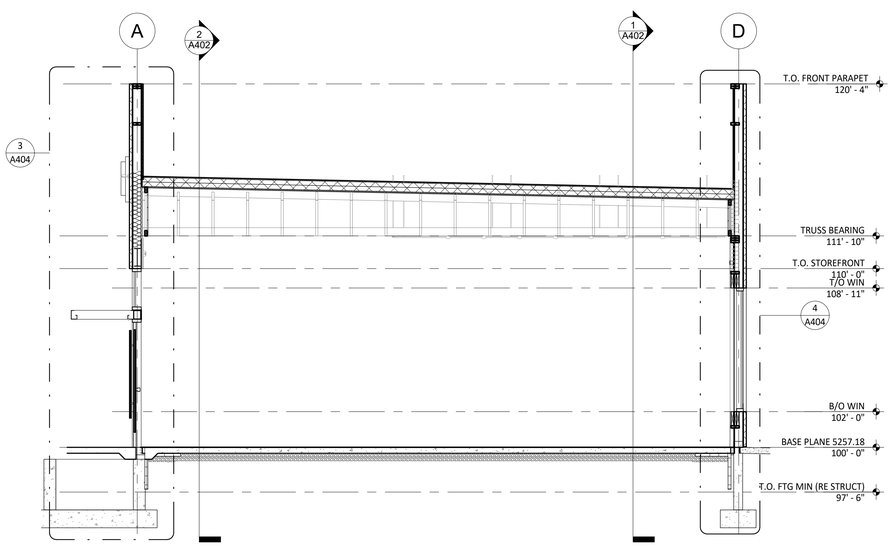
3 A401 **BUILDING SECTION**

1/4" = 1'-0"



2 A401 **BUILDING SECTION**

1/4" = 1'-0"



1 A401 **BUILDING SECTIONS**

1/4" = 1'-0"

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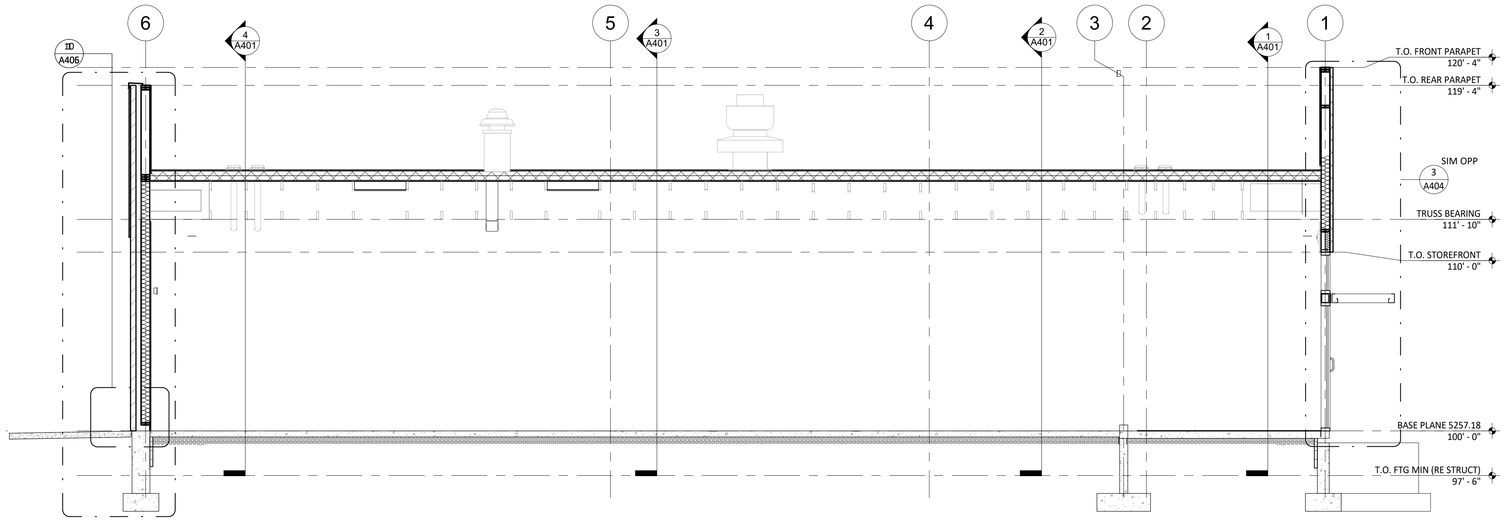
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Project No.: 05-5119

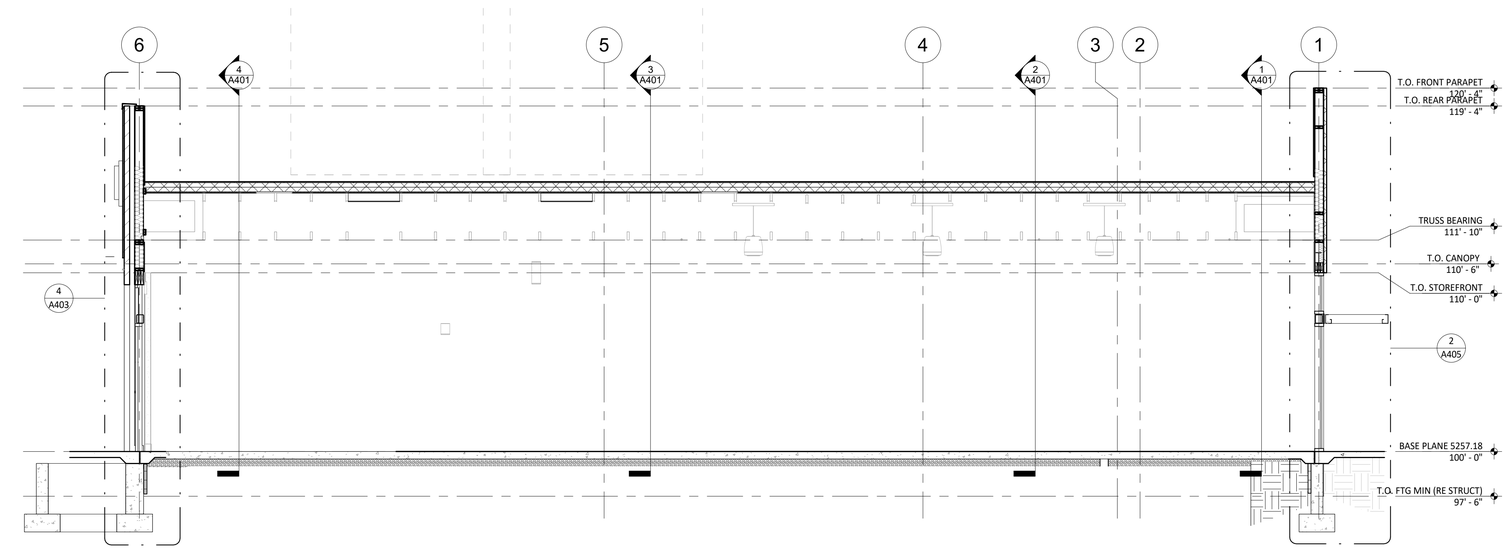
Contents: BUILDING SECTIONS

A401



1 A402 **BUILDING SECTION**

1/4" = 1'-0"



2 A402 **BUILDING SECTION**

1/4" = 1'-0"

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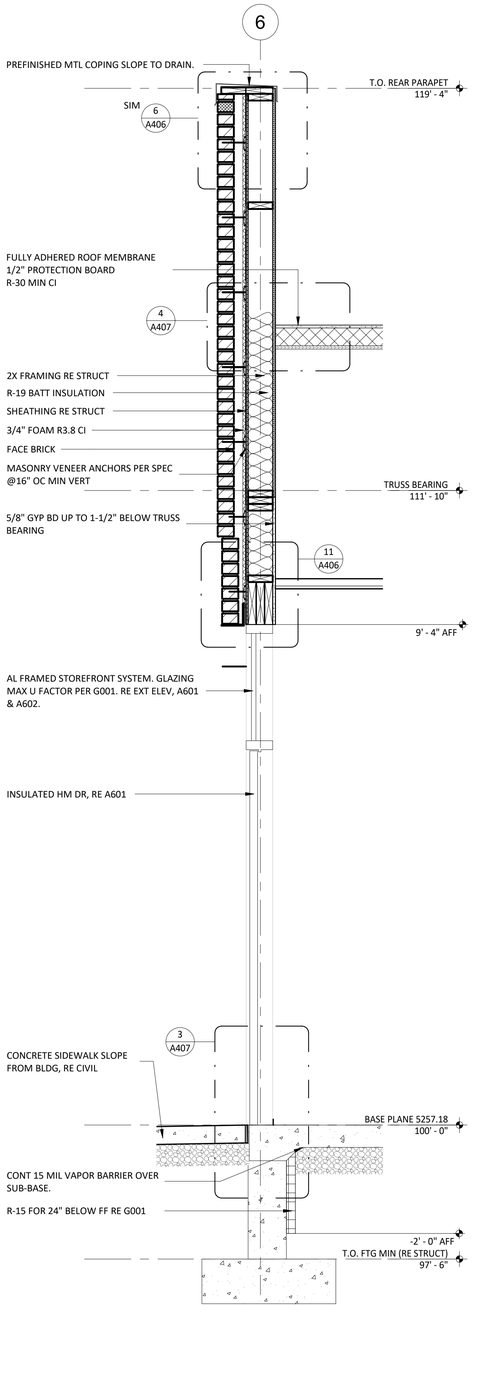
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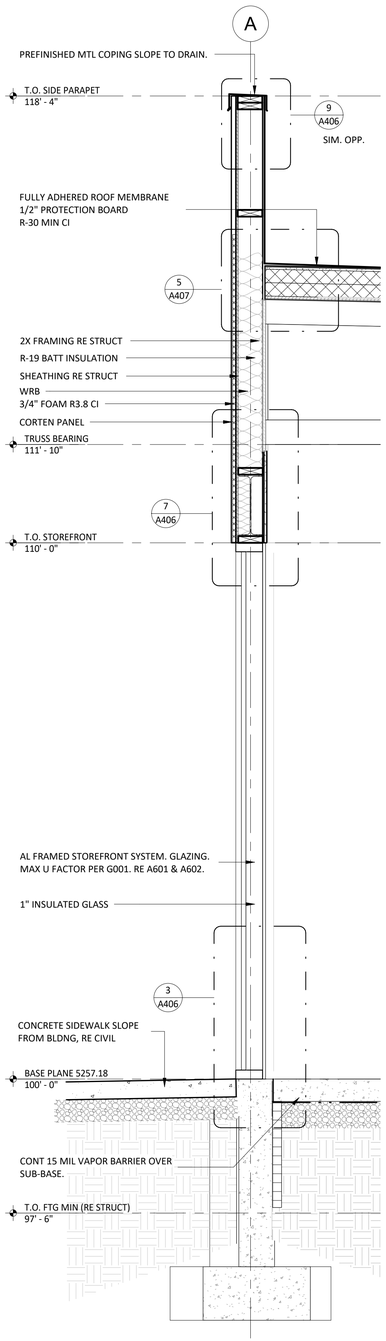
Contents:
BUILDING SECTIONS

A402



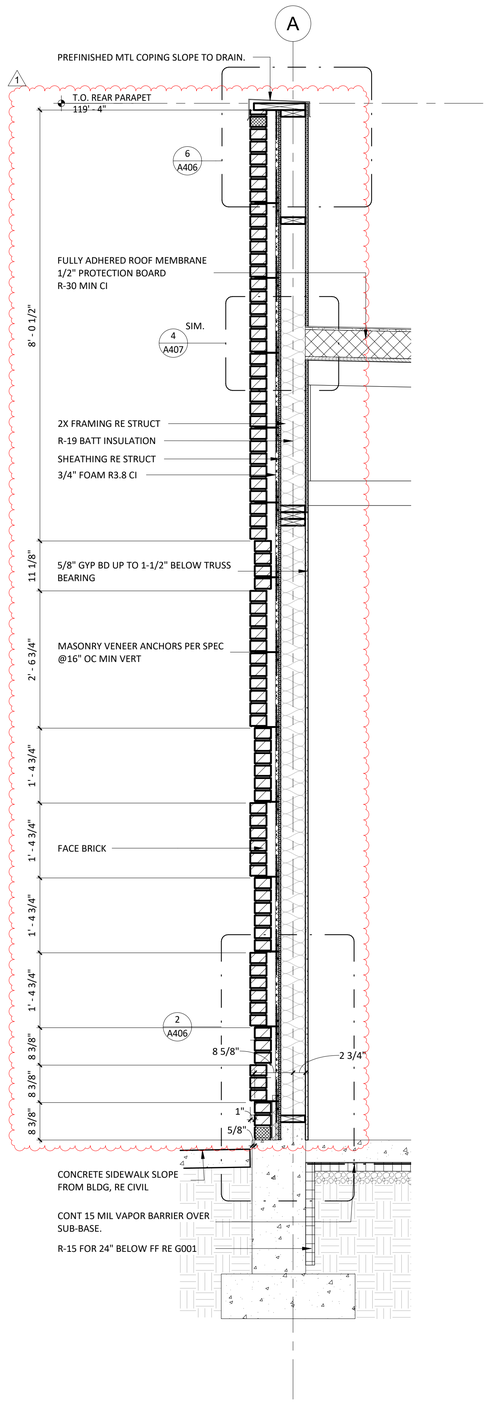
4 A403 WALL SECTION @ SERVICE DOOR

3/4" = 1'-0"



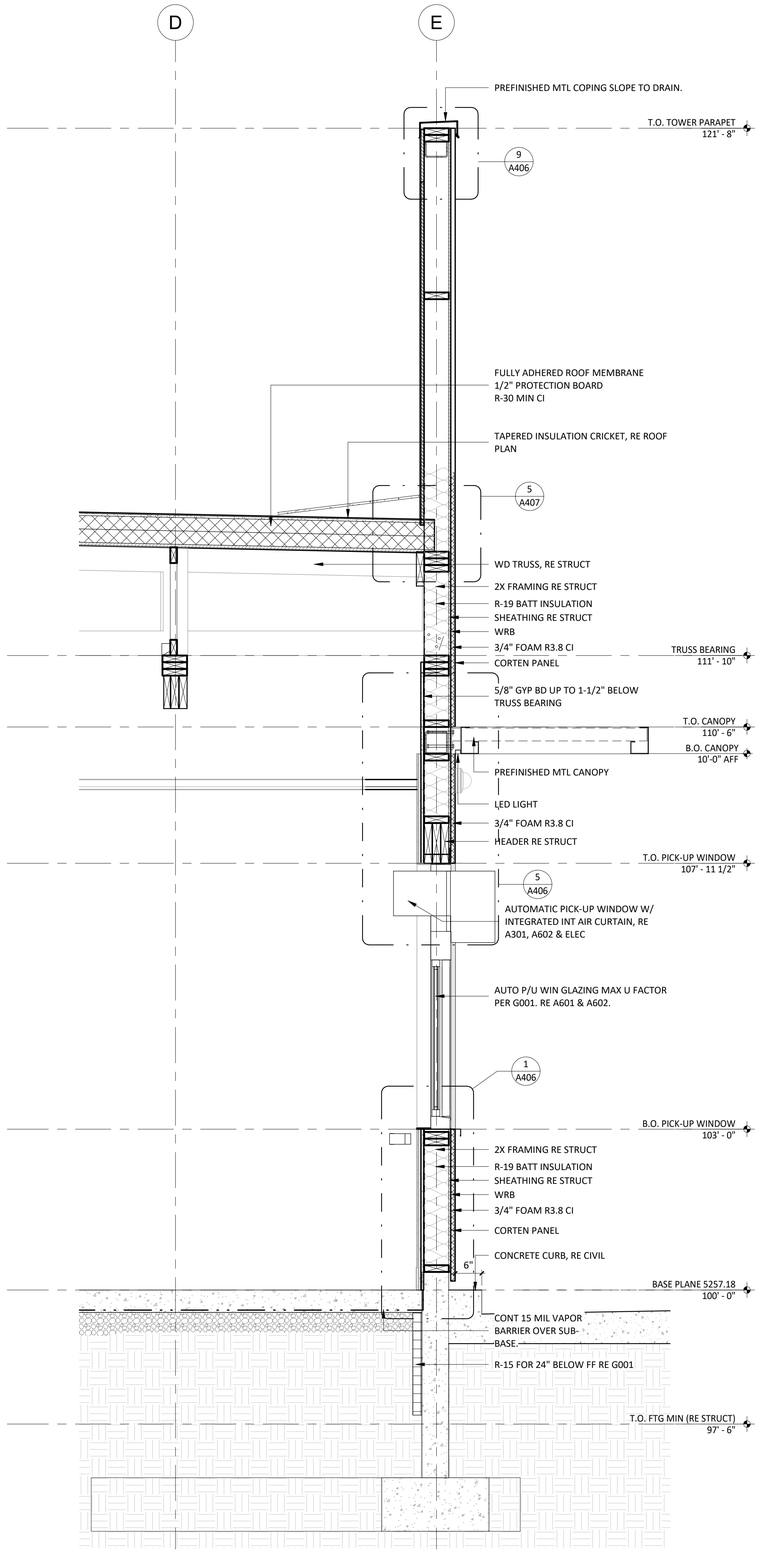
3 A403 WALL SECTION @ CORTEN STOREFRONT

3/4" = 1'-0"



2 A403 WALL SECTION @ BRICK REVEALS

3/4" = 1'-0"



1 A403 WALL SECTION @ PICK-UP WINDOW

3/4" = 1'-0"

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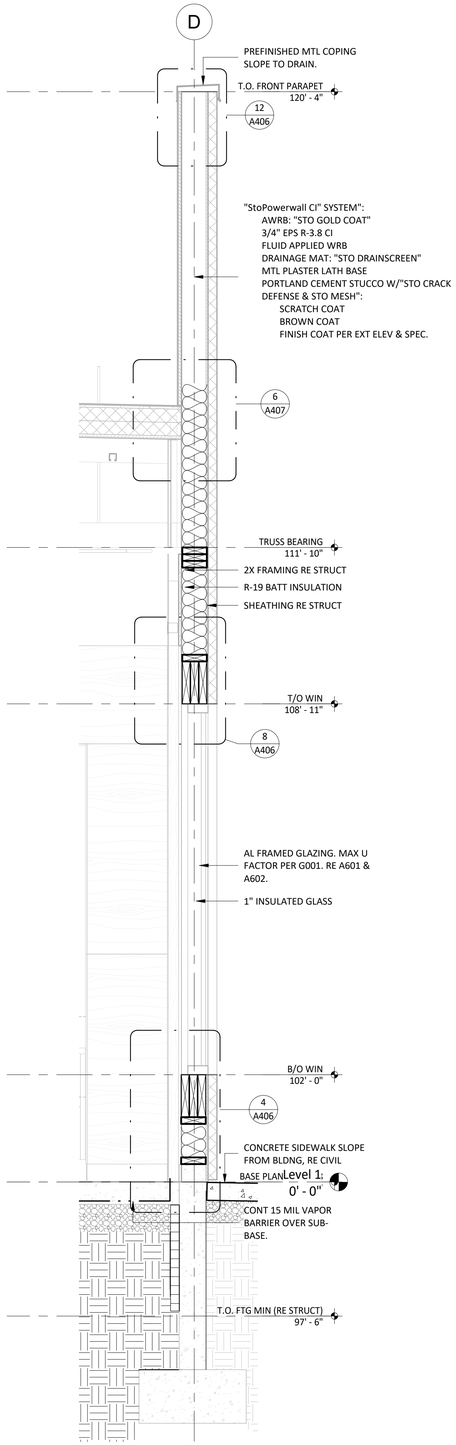
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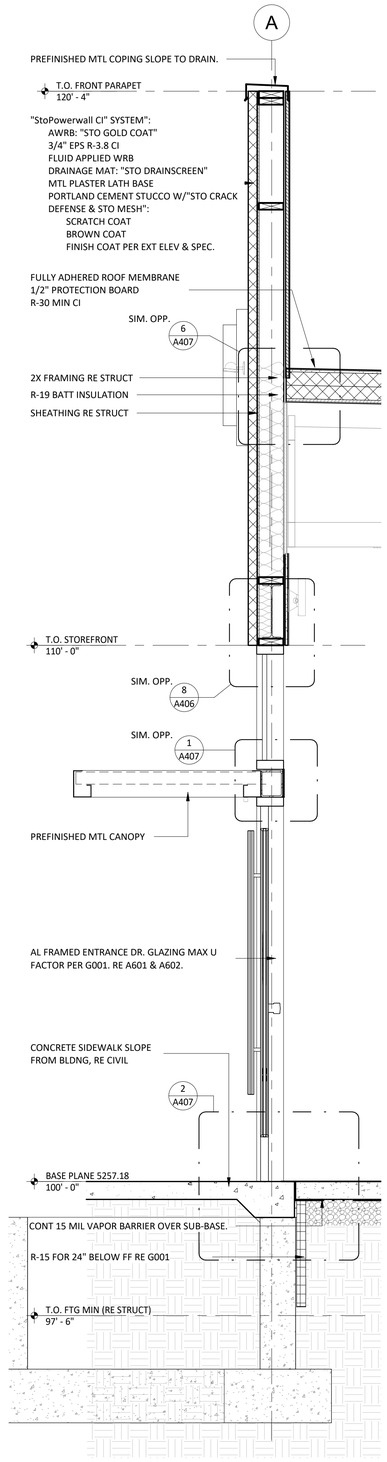
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Contents:
WALL SECTIONS

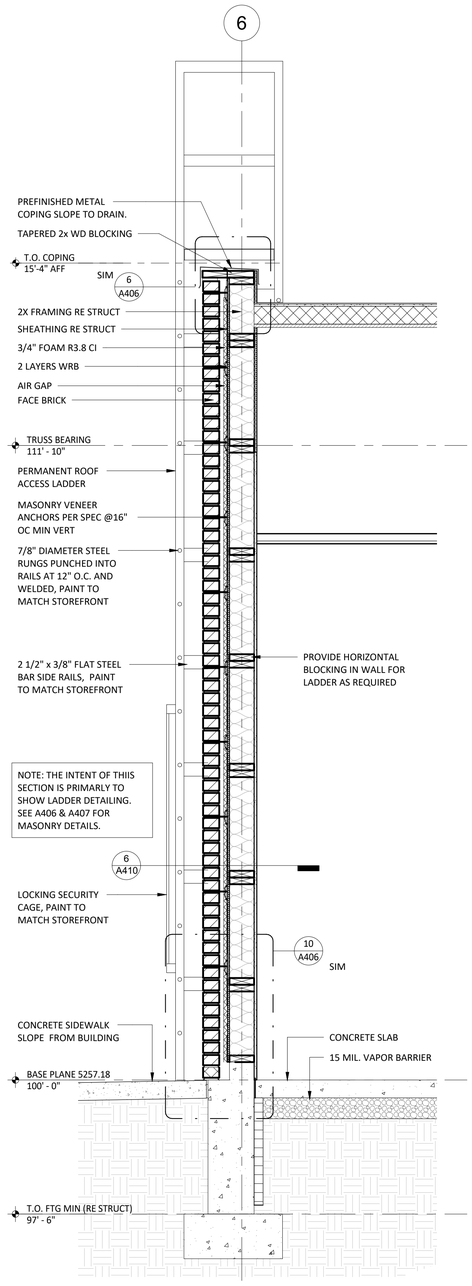
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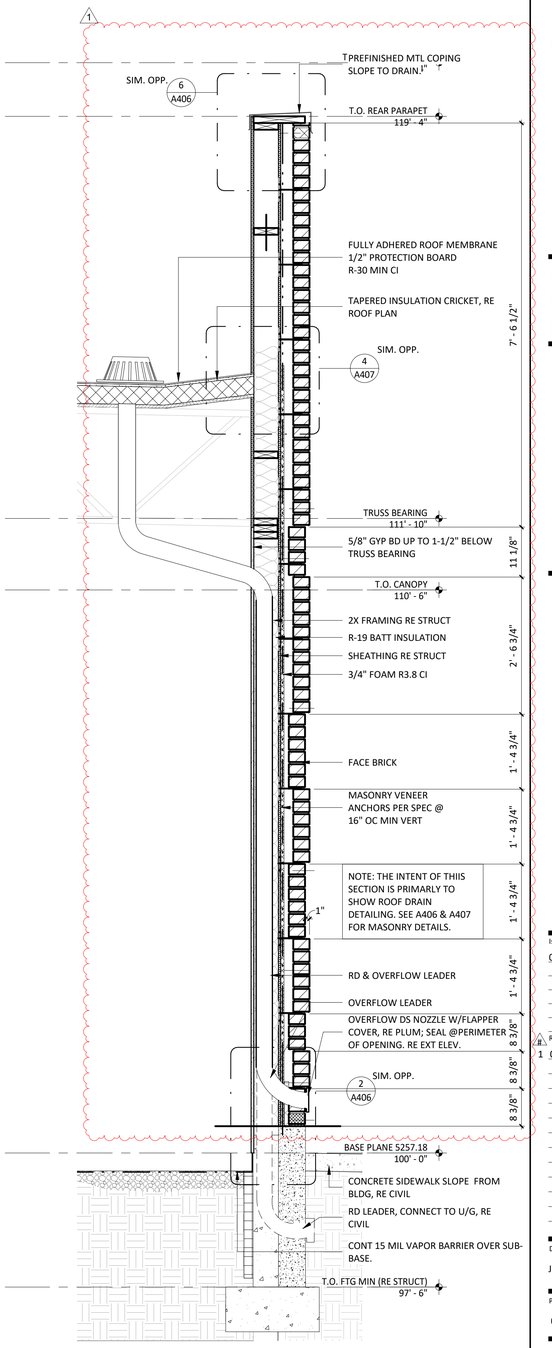
4 A404 **WALL SECTION @ PUNCH WINDOW**
3/4" = 1'-0"



3 A404 **WALL SECTION @ MAIN ENTRY**
3/4" = 1'-0"



2 A404 **WALL SECTION @ ROOF LADDER**
3/4" = 1'-0"



1 A404 **WALL SECTION @ ROOF DRAIN**
3/4" = 1'-0"

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
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DENVER, CO 8020
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WWW.LINGLEDESIGN.COM
LICENSED ARCHITECT CARL L LINGLE 306135 STATE OF COLORADO

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STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:
05/09/2024 PERMIT SET

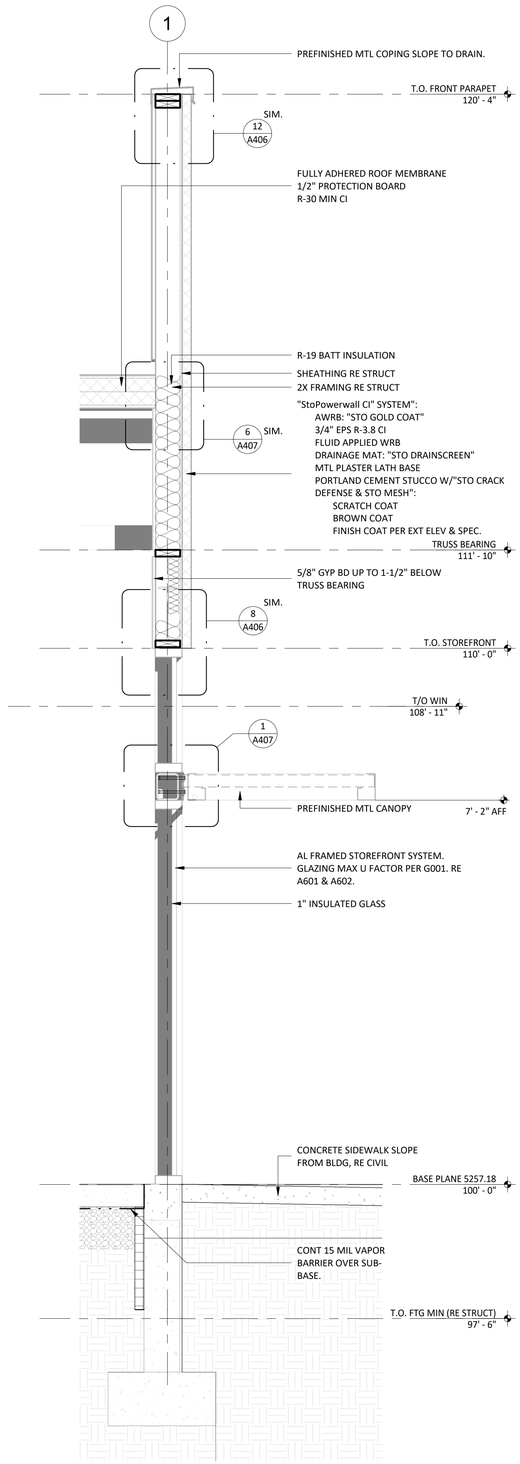
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1 08/07/2024 PERMIT COMMENTS

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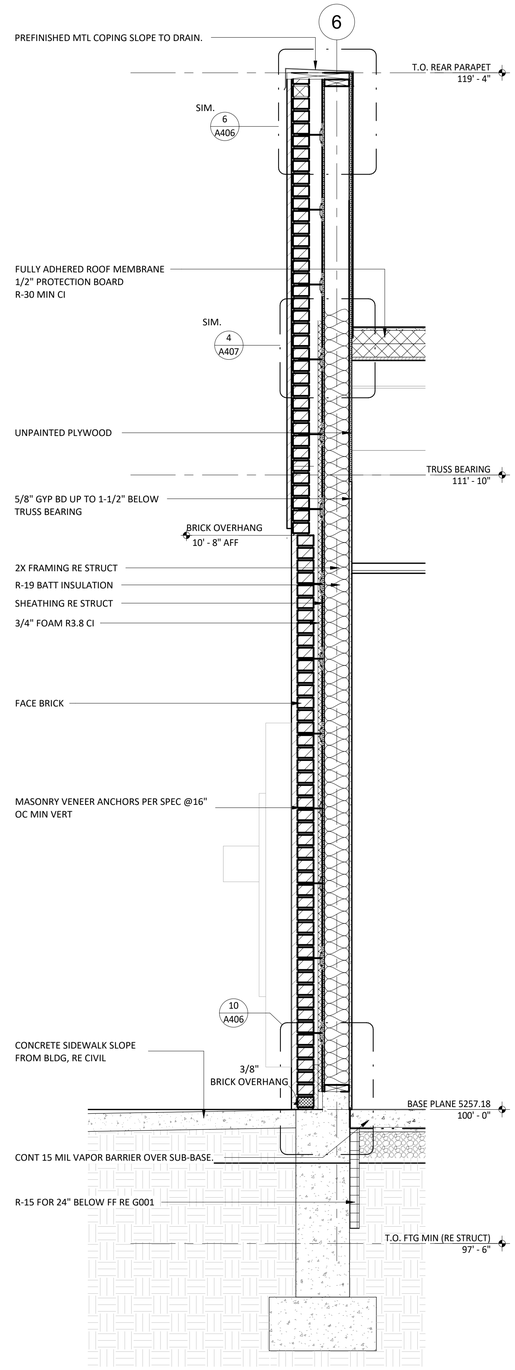
Project No.
05-5119

Contents:
WALL SECTIONS

A404



2 A405 **WALL SECTION @ STUCCO STOREFRONT**
3/4" = 1'-0"



1 A405 **WALL SECTION @ BRICK STUD**
3/4" = 1'-0"

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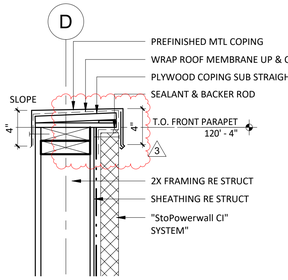
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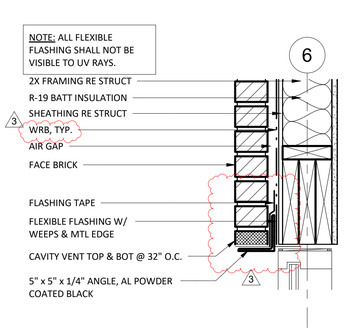
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05-5119

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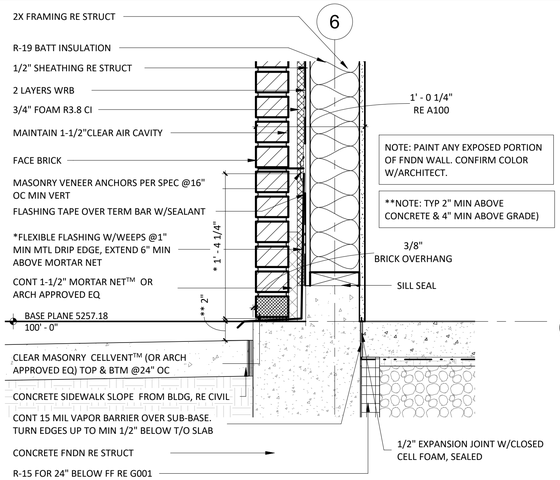
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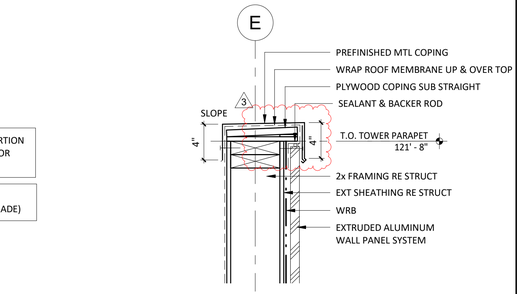
12 A406 **WALL SECTION @ STUCCO COPING**
1 1/2" = 1'-0"



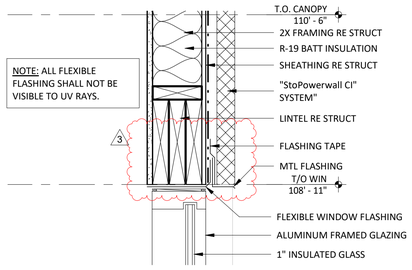
11 A406 **WALL SECTION @ SERVICE DOOR**
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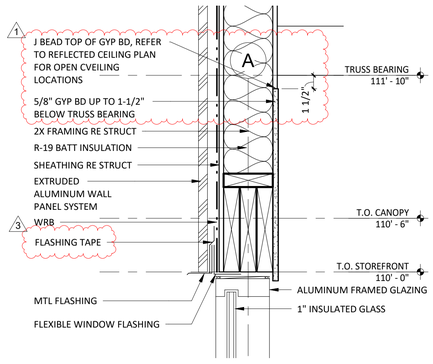
10 A406 **WALL SECTION @ BRICK FNDN**
1 1/2" = 1'-0"



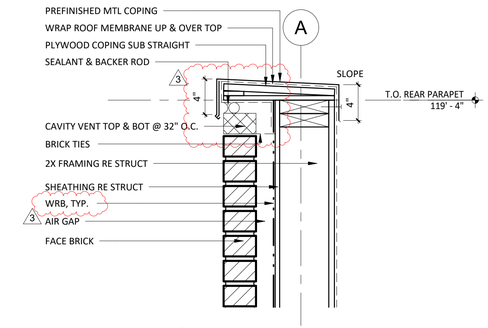
9 A406 **WALL SECTION @ PICK-UP WINDOW COPING**
1 1/2" = 1'-0"



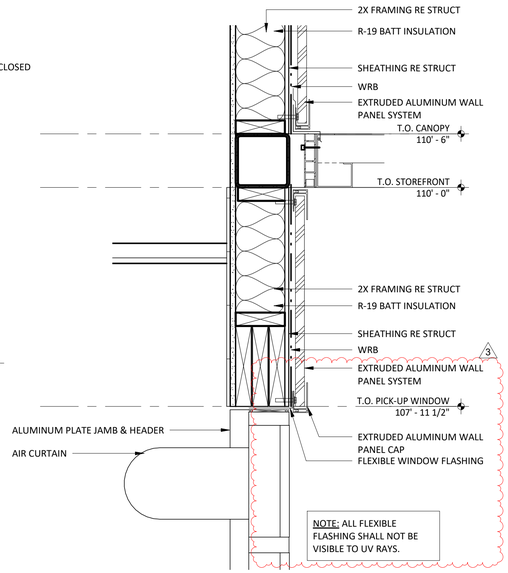
8 A406 **WALL SECTION @ STUCCO HEADER**
1 1/2" = 1'-0"



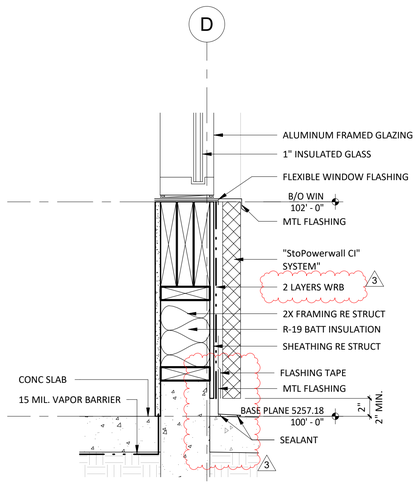
7 A406 **WALL SECTION @ CORTEN STOREFRONT HEADER**
1 1/2" = 1'-0"



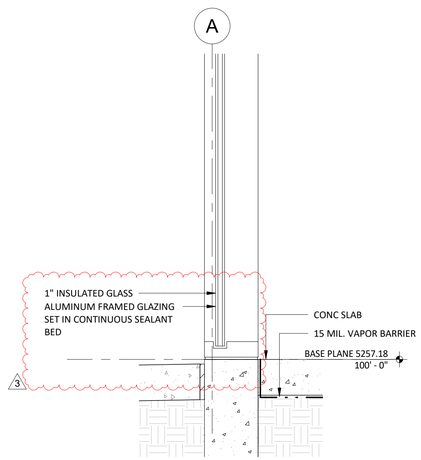
6 A406 **WALL SECTION @ BRICK COPING**
1 1/2" = 1'-0"



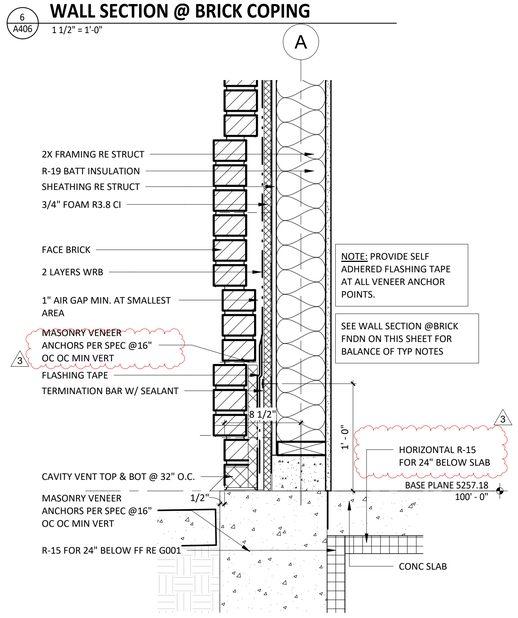
5 A406 **WALL SECTION @ PICK-UP WINDOW HEADER**
1 1/2" = 1'-0"



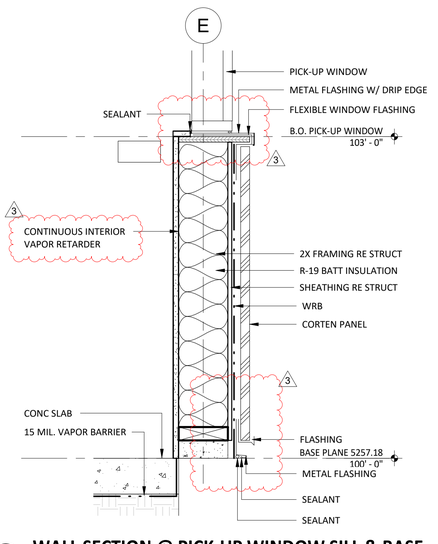
4 A406 **WALL SECTION @ STUCCO BASE**
1 1/2" = 1'-0"



3 A406 **WALL SECTION @ STOREFRONT BASE**
1 1/2" = 1'-0"



2 A406 **WALL SECTION @ STAGGERED BRICK BASE**
1 1/2" = 1'-0"



1 A406 **WALL SECTION @ PICK-UP WINDOW SILL & BASE**
1 1/2" = 1'-0"

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8968 E. 46TH AVE
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Issue Record:

05/09/2024	PERMIT SET

Revisions:

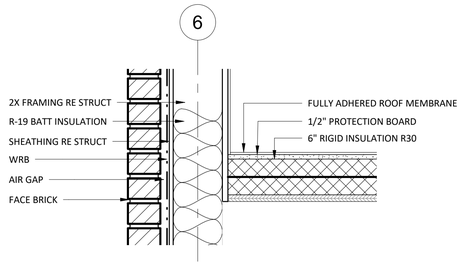
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3	10/01/2024	Revision 3

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Checked: CL

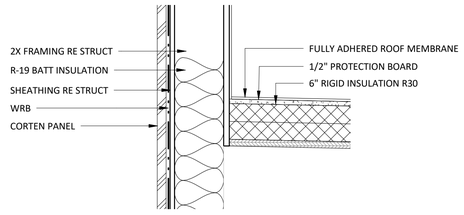
Project No.
05-5119

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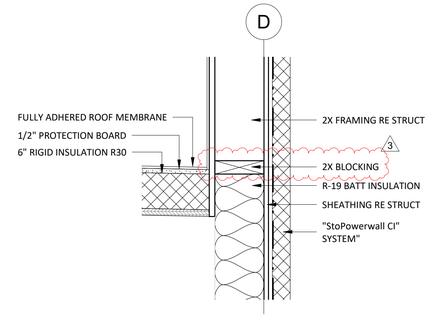
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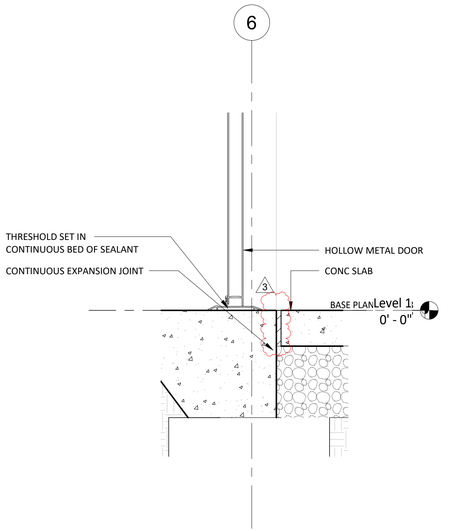
4 A407 **ROOF MEMBRANE @ BRICK**
1 1/2" = 1'-0"



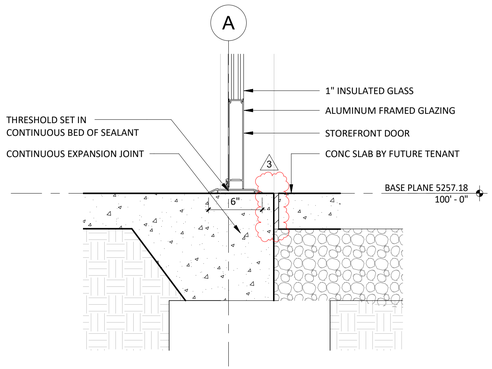
5 A407 **ROOF MEMBRANE @ CORTEN PANEL**
1 1/2" = 1'-0"



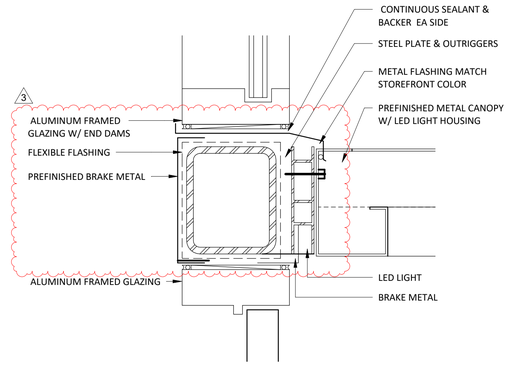
6 A407 **ROOF MEMBRANE @ STUCCO**
1 1/2" = 1'-0"



3 A407 **FOUNDATION DETAIL @ REAR SERVICE DOOR**
1 1/2" = 1'-0"



2 A407 **FOUNDATION DETAIL @ STOREFRONT DOOR**
1 1/2" = 1'-0"



1 A407 **CANOPY DETAIL @ STOREFRONT**
3" = 1'-0"

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Issue Record:

05/09/2024	PERMIT SET

Revisions:

3	10/01/2024	Revision 3

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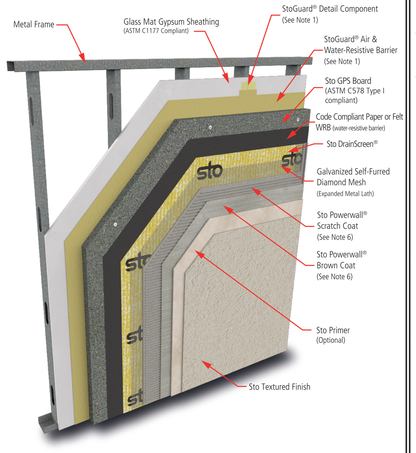
Project No.
05-5119

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SECTION DETAILS

A407

StoPowerwall®ci
System Components

Detail No.: 63s.00
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation Board in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

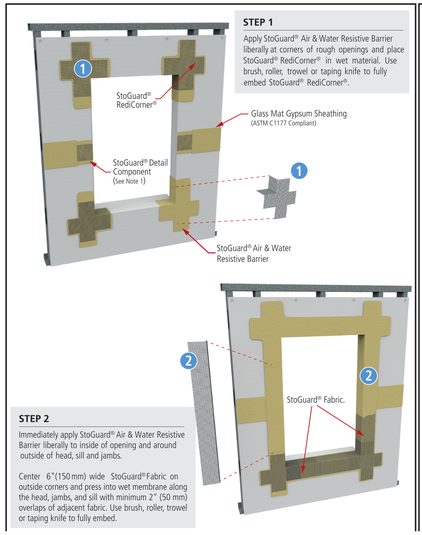
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

1 A408 **STUCCO SYSTEM COMPONENTS**
1/4" = 1'-0"

StoPowerwall®ci
Rough Opening Protection with StoGuard®Fabric

Detail No.: 63s.04F
Date: August 2023
Page 1 of 2



STEP 1
Apply StoGuard® Air & Water Resistive Barrier liberally at corners of rough openings and place StoGuard® RediCorner® in wet material. Use brush, roller, trowel or taping knife to fully embed StoGuard® RediCorner®.

STEP 2
Immediately apply StoGuard® Air & Water Resistive Barrier liberally to inside of opening and around outside of head, sill and jambs.

Center 6"(150 mm) wide StoGuard® Fabric on outside corners and press into wet membrane along the head, jambs, and sill with minimum 2" (50 mm) overlaps of adjacent fabric. Use brush, roller, trowel or taping knife to fully embed.

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

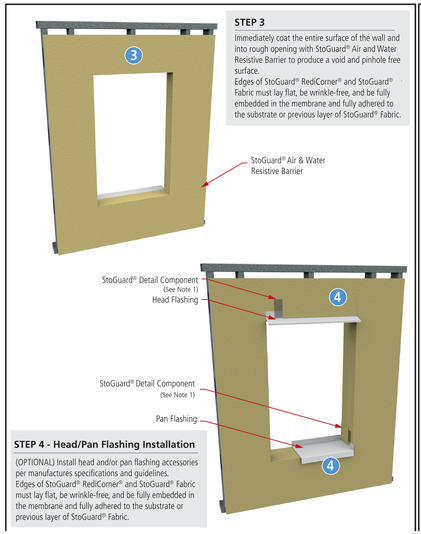
3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

4. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

2 A408 **STUCCO ROUGH OPENING PROTECTION**
1/4" = 1'-0"

StoPowerwall®ci
Rough Opening Protection with StoGuard®Fabric

Detail No.: 63s.04F
Date: August 2023
Page 2 of 2



STEP 3
Immediately coat the entire surface of the wall and into rough opening with StoGuard® Air and Water Resistive Barrier to produce a void and pinhole free surface.
Edges of StoGuard® RediCorner® and StoGuard® Fabric must lay flat, be wrinkle-free, and be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard® Fabric.

STEP 4 - Head/Pan Flashing Installation
(OPTIONAL) Install head and/or pan flashing accessories per manufactures specifications and guidelines.
Edges of StoGuard® RediCorner® and StoGuard® Fabric must lay flat, be wrinkle-free, and be fully embedded in the membrane and fully adhered to the substrate or previous layer of StoGuard® Fabric.

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

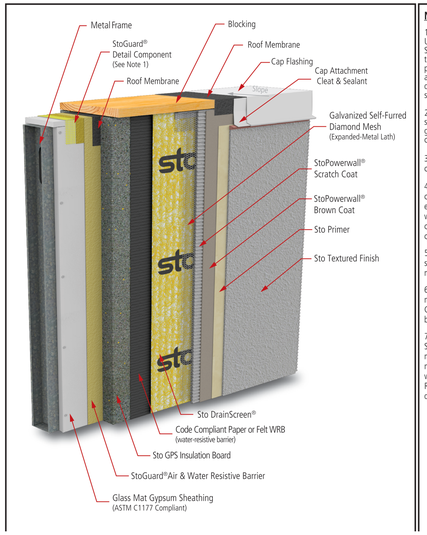
2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

4. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

StoPowerwall®ci
Termination at Parapet

Detail No.: 63s.15
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

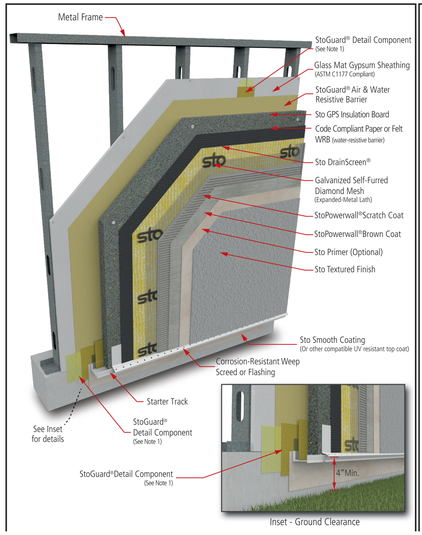
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

3 A408 **STUCCO TERMINATION AT PARAPET**
1/4" = 1'-0"

StoPowerwall®ci
Termination at Grade: Sheathing Flush with Foundation

Detail No.: 63s.02
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

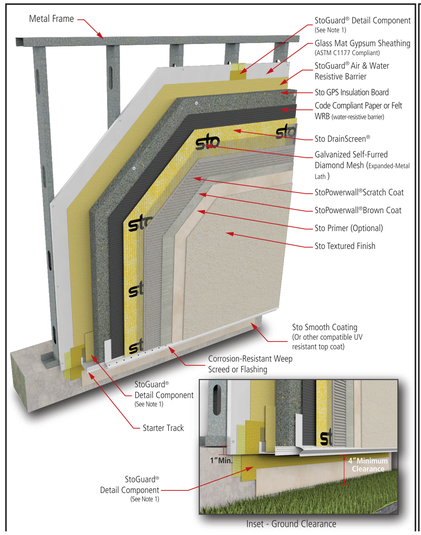
7. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51mm) above paved surfaces.

8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

4 A408 **STUCCO TERMINATION AT GRADE SHEATHING FLUSH**
1/4" = 1'-0"

StoPowerwall®ci
Termination at Grade: Sheathing over Foundation

Detail No.: 63s.03
Date: August 2023



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Cladding termination minimum 4" (101 mm) above finish grade, minimum 2" (51mm) above paved surfaces.

8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

5 A408 **STUCCO TERMINATION AT GRADE OVER FOUNDATION**
1/4" = 1'-0"

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RUNWAY 35N
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DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

Drawn: JM
Checked: CL

Project No.: 05-5119

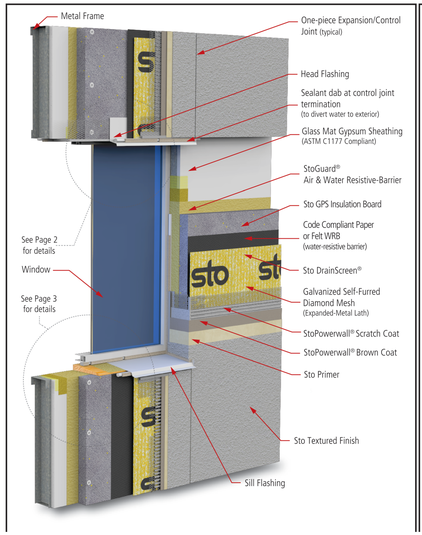
Contents:

STUCCO DETAILS

A408

StoPowerwall®ci
Box Window at Sill, Jamb, and Head

Detail No.: 63s.05
Date: August 2023
Page 1 of 3



Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

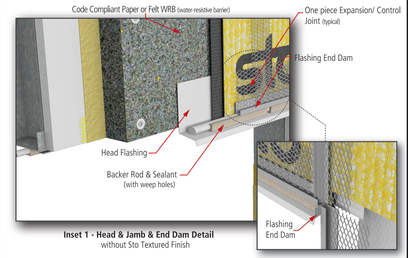
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

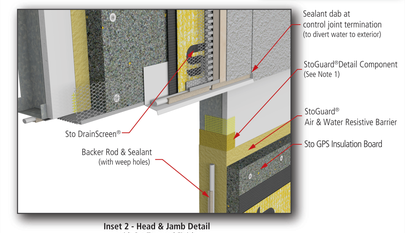
8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

StoPowerwall®ci
Box Window at Head/Jamb

Detail No.: 63s.05
Date: August 2023
Page 2 of 3



Inset 1 - Head & Jamb & End Dam Detail
without Sto Textured Finish



Inset 2 - Head & Jamb Detail
with Sto Textured Finish

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

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5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

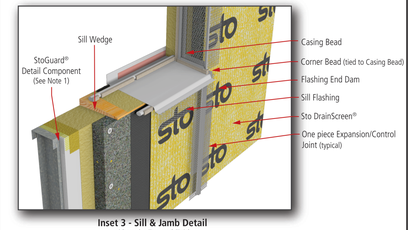
6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

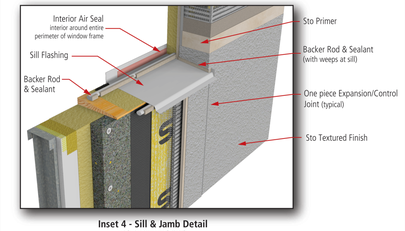
8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

StoPowerwall®ci
Box Window at Sill/Jamb

Detail No.: 63s.05
Date: August 2023
Page 3 of 3



Inset 3 - Sill & Jamb Detail
without Sto Textured Finish



Inset 4 - Sill & Jamb Detail
with Sto Textured Finish

Notes:

1. Refer to StoGuard Product Use Chart (Table 1.1) for StoGuard detail components; joint treatment, rough opening protection, backing for masonry anchors, or transitions to dissimilar materials, joints and seams in construction.

2. Refer to General Notes for specific information and design guidance on wall assembly components.

3. Sto GPS Insulation in compliance with ASTM C 578.

4. Glass mat gypsum sheathing in compliance with ASTM C1177, exterior grade and Exposure 1 wood based sheathing, or cementitious sheathing in compliance with ASTM C1325.

5. Minimum 2.5 lb/yd² (1.4 kg/m²) self-furred galvanized diamond mesh metal lath.

6. Stucco scratch and brown coat material in compliance with ASTM C926 and manufactured or listed by Sto Corp.

7. Consult with window and sealant manufacturers to verify window installation and detailing to assure no leakage into the wall assembly. Consult with window manufacturer regarding window and flashing assemblies with thermal breaks to avoid condensation. Test the final assembly using materials and sub-trades associated with the project to verify performance.

8. Components not identified as Sto are furnished by other manufacturers and are not necessarily installed by trades who install the Sto products. Refer to project specific contract documents.

1 A409 STUCCO BOX WINDOW SILL JAMB HEAD
1/4" = 1'-0"

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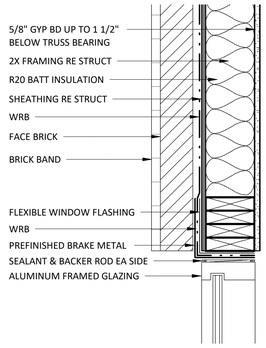
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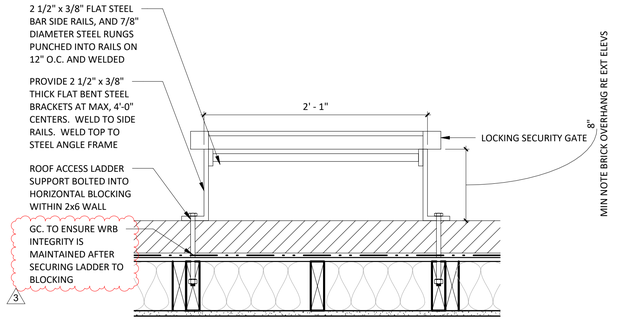
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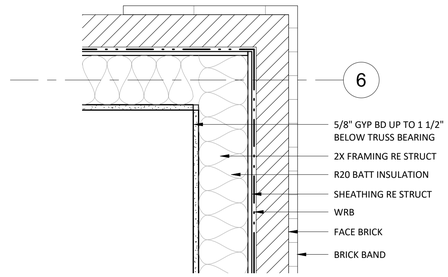
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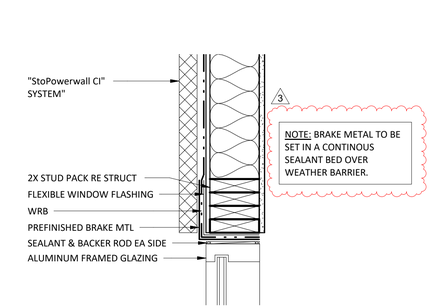
5 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



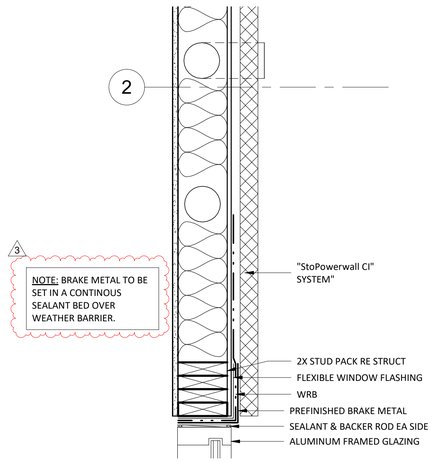
6 A410 **PLAN DETAIL - EXTERIOR ROOF LADDER**
1 1/2" = 1'-0"



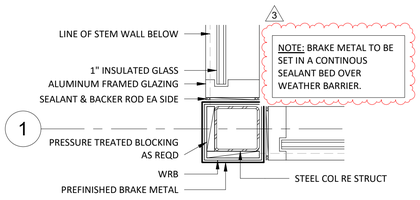
7 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



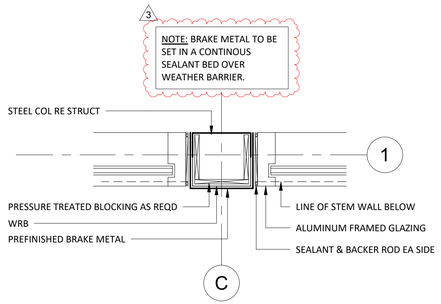
4 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



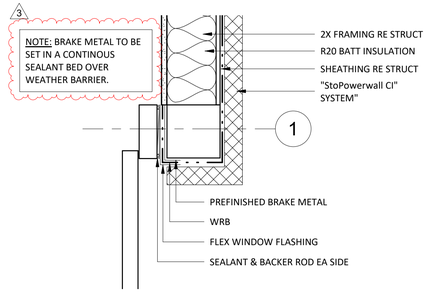
8 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



3 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



2 A410 **PLAN DETAIL**
1 1/2" = 1'-0"



1 A410 **PLAN DETAIL**
1 1/2" = 1'-0"

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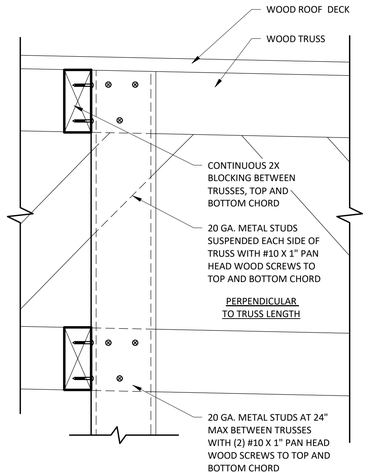
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Revisions:	
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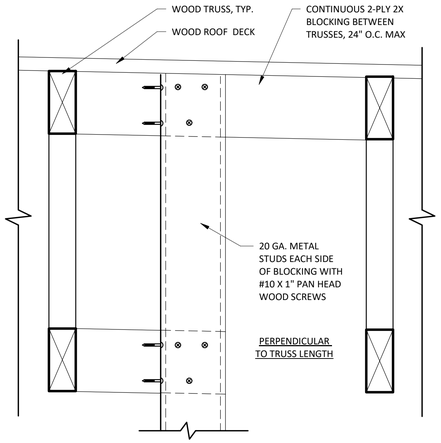
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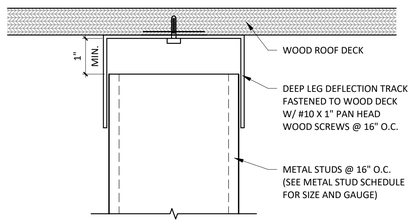
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05-5119

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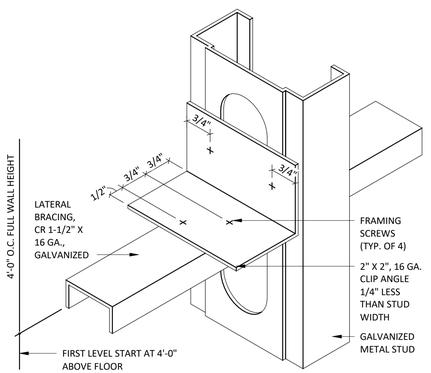






3 A501 **DEFLECTION TRACK DETAIL @ PARTITION**
6" = 1'-0"

2 A501 **SOFFIT HANGING DETAIL**
3" = 1'-0"

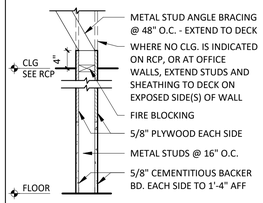


1 A501 **LATERAL BRACING DETAIL @ PARTITION**
NOT TO SCALE

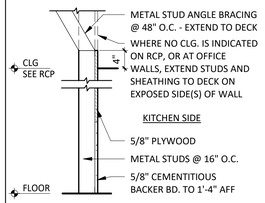
WALL TYPES

1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES

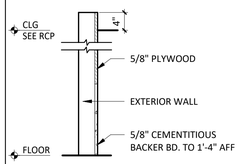
NOTE: ALL CONCEALED
WOOD TO BE FRT RATED



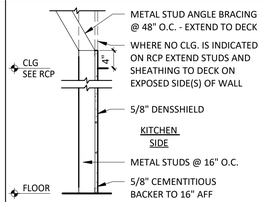
W1 INTERIOR PARTITION



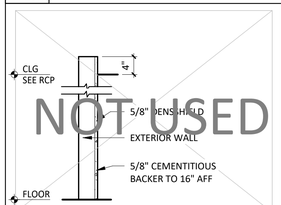
W1a INTERIOR PARTITION



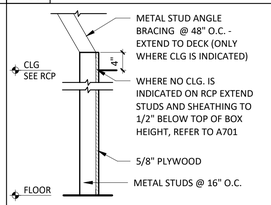
W1ax INTERIOR PARTITION



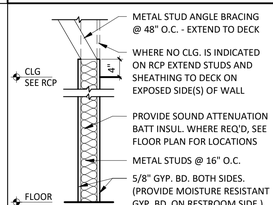
W3a INTERIOR PARTITION



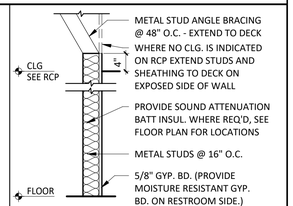
W3ax INTERIOR PARTITION



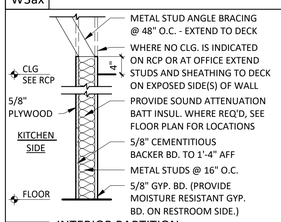
W4a INTERIOR PARTITION



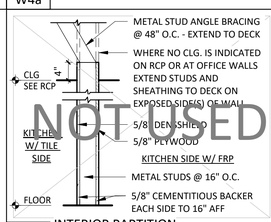
W5 INTERIOR PARTITION



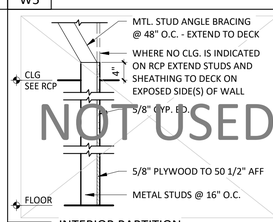
W5a INTERIOR PARTITION



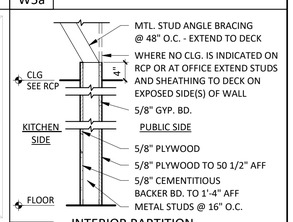
W6 INTERIOR PARTITION



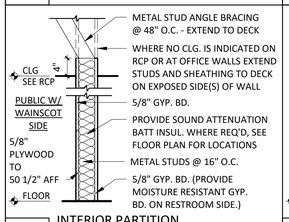
W7 INTERIOR PARTITION



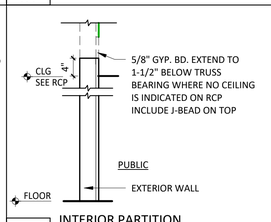
W10a INTERIOR PARTITION



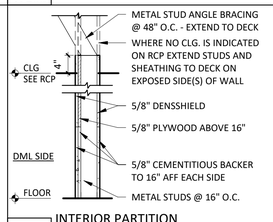
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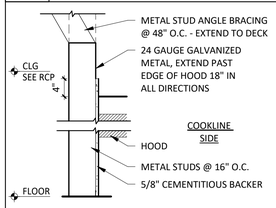
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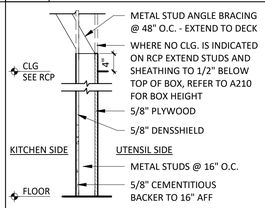
W15ax INTERIOR PARTITION



W23 INTERIOR PARTITION



W26a INTERIOR PARTITION



W28 INTERIOR PARTITION

GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.

STUD SCHEDULE & NOTES

SIZE/TYPE	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
3. BOTTOM TRACK TO BE SAME GAUGE AS STUD.
4. TOP TRACK TO BE ONE GAUGE HIGHER.

PARTITION NOTES

1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
2. ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE.
3. ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
4. FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE ARCHITECT.
5. ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET.
6. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
7. THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
8. TYPICAL FASTENER:

A. STEEL STUDS TO STEEL STUDS OR TRACKS:
- 20 GAUGE - #8 - 18 X 1/2" TEKS WITH PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
- 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION

B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
- #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
- 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

D. PLYWOOD TO STEEL STUDS:
- #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

E. GYPSUM BOARD TO STEEL STUDS:
- #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GAUGE OR 20 GAUGE STUDS
- #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
- FIELD - 12" O.C. CEILINGS, 24" O.C. WALLS
- BUTT JOINTS 12" O.C.

F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
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1764 BLAKE ST
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CARL L LINGLE
306135
STATE OF COLORADO

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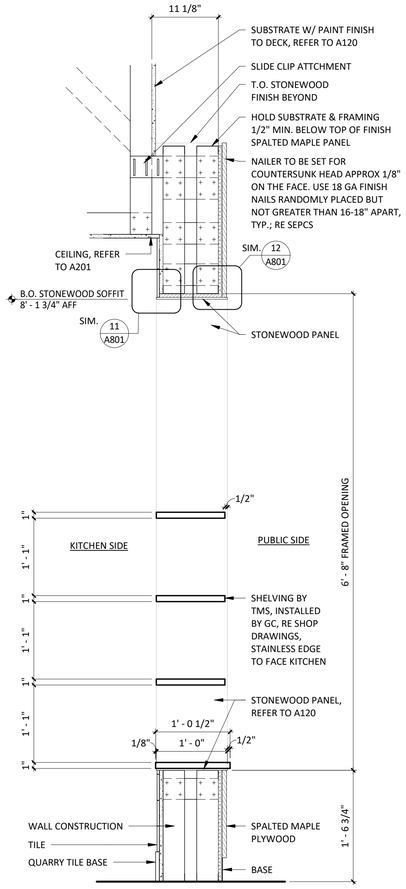
Revisions:

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Checked: CL

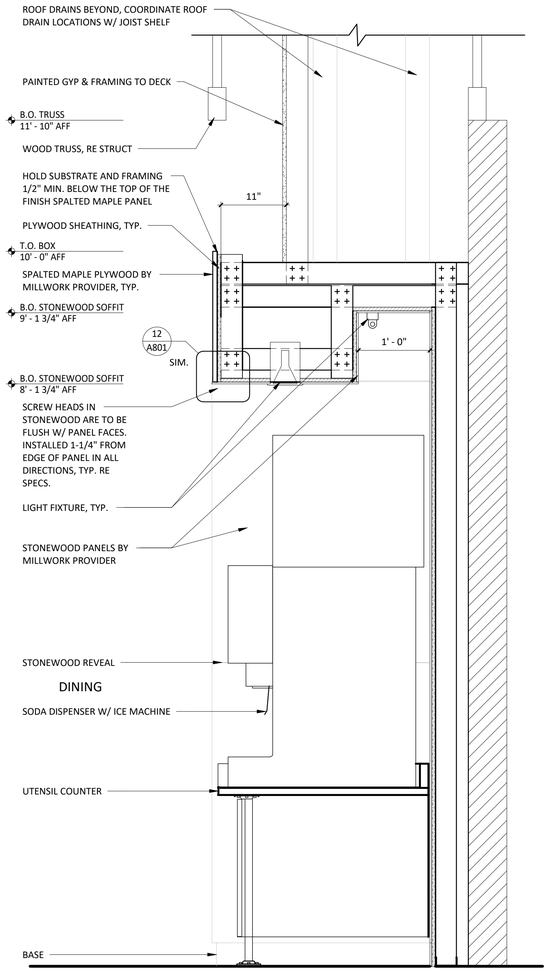
Project No.
05-5119

Contents:
ARCHITECTURAL WALL TYPES

A501



2 A502 **MOPUS SECTION - PASS THRU**
1" = 1'-0"



1 A502 **UTENSIL SECTION**
1" = 1'-0"

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05-5119

Contents:
INTERIOR SECTIONS

A502

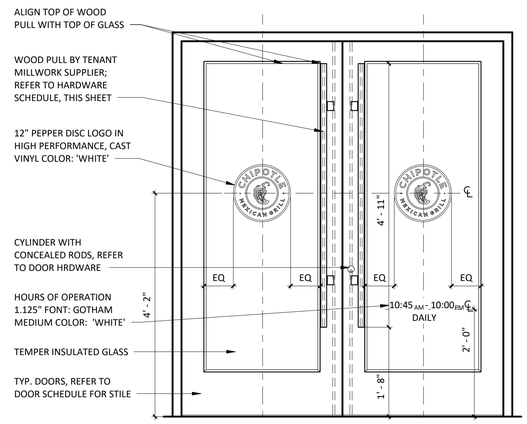
DOOR SCHEDULE

TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	NEW		DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1	NEW		1,2,4,5
2	DINING	NEW		SINGLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2A	NEW		1,3,4,5
3	KITCHEN	NEW	NEW	HM REAR KITCHEN (STANDARD)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3	NEW		1,4,6
4	OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4	NEW		
5	UNISEX 1	NEW	NEW	UNISEX 1 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6	NEW		
6	UNISEX 2	NEW	NEW	UNISEX 2 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5	NEW		
100A	MAIN ENTRY	NEW		SINGLE STOREFRONT - VESTIBULE (WIDE STILE, NON-OFFSET)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D	NEW		1,2,5
100B	MAIN ENTRY	NEW	NEW	SINGLE STOREFRONT - VESTIBULE (WIDE STILE, NON-OFFSET)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D	NEW		1,2,5

REMARK NOTES

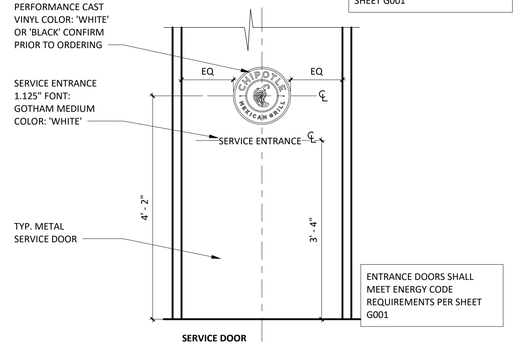
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE PLACED IN A VISIBLE LOCATION ABOVE THE DOORS.
3. THERE IS TO BE NO EXTERIOR HOLE OR CYLINDER
4. USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5. BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT. LIGHT GRAY DOOR SWEEP TO BE USED WITH CLEAR ANODIZED ALUMINUM STOREFRONT
6. REAR KITCHEN DOOR TO BE PAINTED 'BLACK' ON INTERIOR AND 'KNIGHT'S ARMOR' ON EXTERIOR U.N.O.

TYPICAL EXTERIOR DOOR TYPES



MAIN/SINGLE ENTRY DOOR

ENTRANCE DOORS SHALL MEET ENERGY CODE REQUIREMENTS PER SHEET G001



SERVICE DOOR

ENTRANCE DOORS SHALL MEET ENERGY CODE REQUIREMENTS PER SHEET G001

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-18
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 2A - ENTRY - SINGLE - NON-OFFSET - PANIC HARDWARE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE	HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-US32D (ALUMINUM)
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	SMOKE SEAL	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

SET 2D - ENTRY - SINGLE - VESTIBULE (1)

(1)	HINGE	HAGER, MODEL 780-224HD-84"-CLR
(1)	PUSH HARDWARE	HAGER, MODEL 30S, 4"X16" US32D STAINLESS STEEL
(1)	PULL HARDWARE	HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 3 - REAR EXIT - SINGLE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL UG98B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 4 - MANAGER'S OFFICE

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL L9453L-06A-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	DOOR STOP	DON-JO, MODEL 1407-630, STAINLESS STEEL
(3)	DOOR SILENCERS	IVES, MODEL SR64
(1)	SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPPAK SLIMLINE 12" X 12" X 1/4" LITE KIT (10" X 10" GLASS VISIBLE)

SET 5 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 6 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

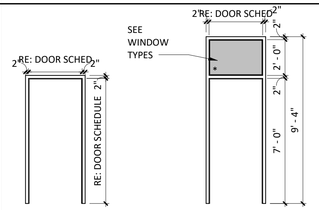
GENERAL NOTES

1. RE A602 FOR STOREFRONT DETAILS, TYPES AMD WINDOW TYPES.
2. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.
3. SEE G001 FOR SPECIFIC PROJECT ENERGY CODE REQUIREMENTS AND VALUES THAY SHALL BE MET.
4. SEE A602 FOR GLAZING NOTES.

DOOR NOTES

1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
4. ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5. SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.
6. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7. ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY TENANT HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CALL PETE KLIMEK WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY. STOREFRONT DOORS ARE TO BE PROVIDED BY G.C., STOREFRONT HARDWARE PROVIDED BY TENANT HARDWARE SUPPLIER.
8. THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. ALL SUPPORT SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER.
10. ALL SUPPORT SIGNAGE INSTALLED BY G.C.
11. ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING

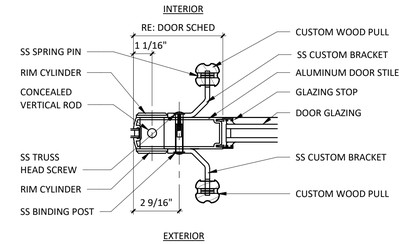
DOOR FRAMES



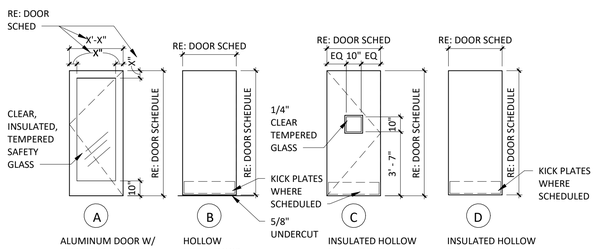
1 NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

2 NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

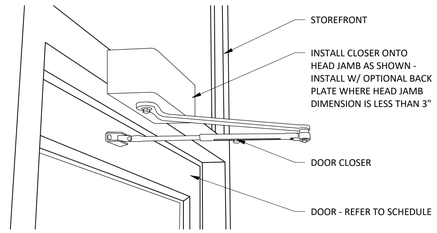
CUSTOM WOOD PULL



DOOR TYPES



DOOR CLOSER



TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

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Revisions:

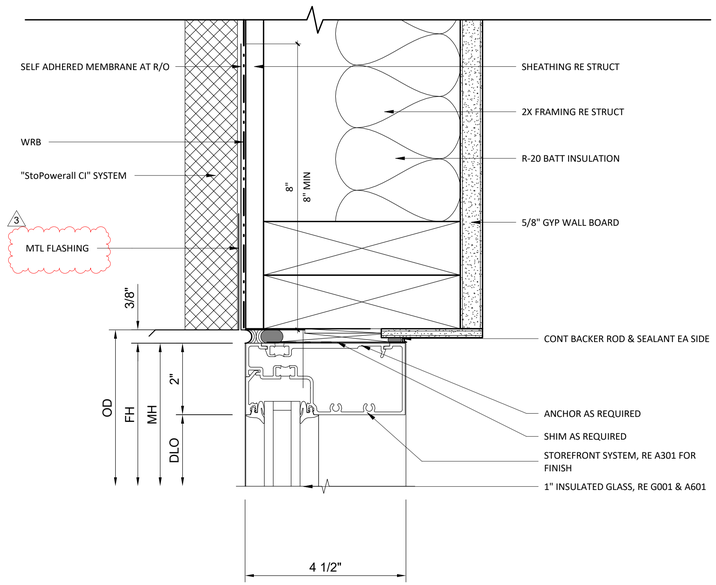
1	08/07/2024	PERMIT COMMENTS

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Checked: CL

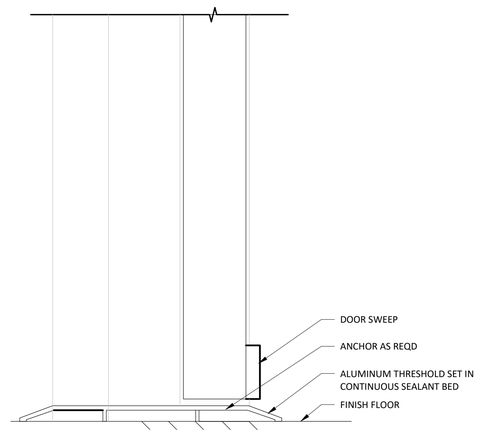
Project No.: 05-5119

Contents: DOOR & HARDWARE SCHEDULE

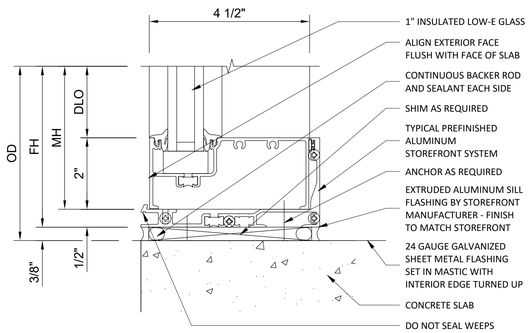
A601



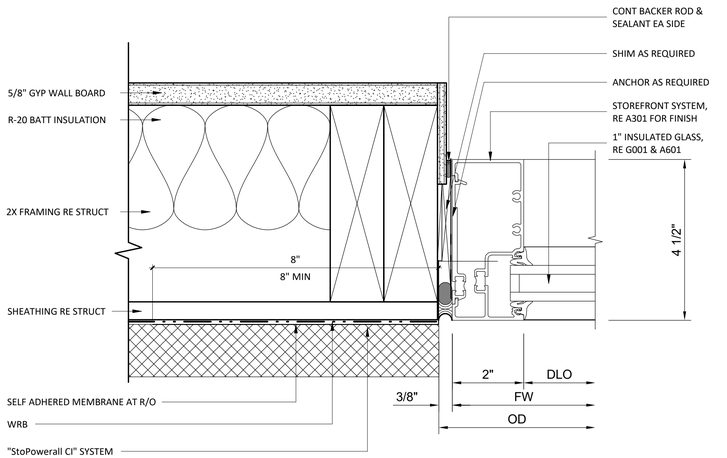
5 A602 **STOREFRONT HEAD DETAIL**
6" = 1'-0"



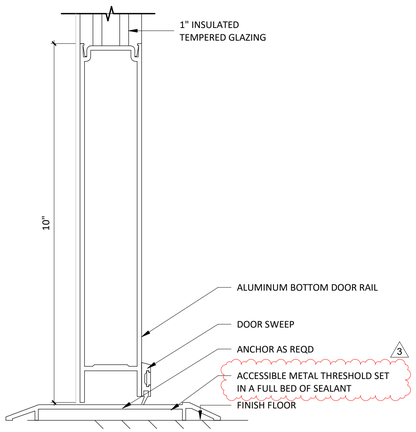
4 A602 **HOLLOW METAL THRESHOLD**
6" = 1'-0"



3 A602 **STOREFRONT SILL DETAIL**
6" = 1'-0"



2 A602 **STOREFRONT JAMB DETAIL**
6" = 1'-0"

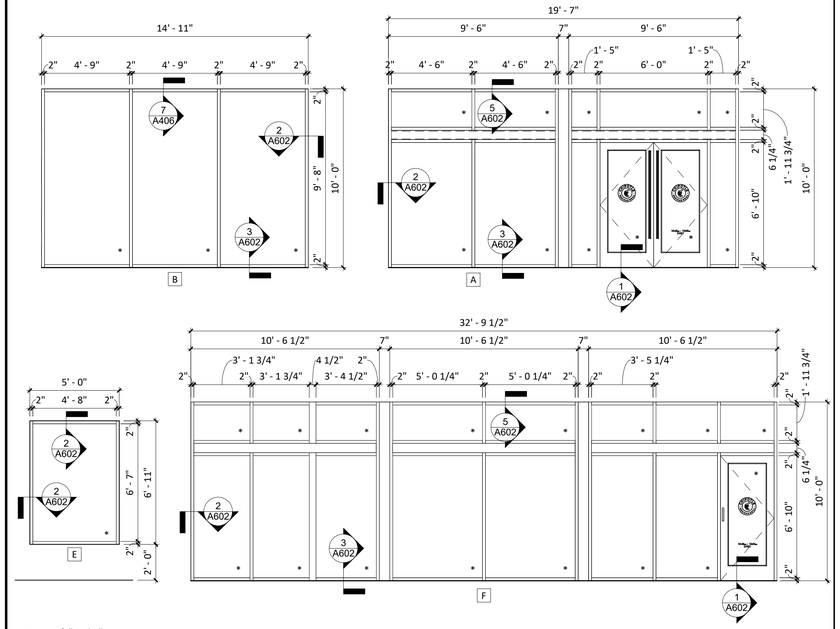


1 A602 **STOREFRONT THRESHOLD**
6" = 1'-0"

GENERAL NOTES

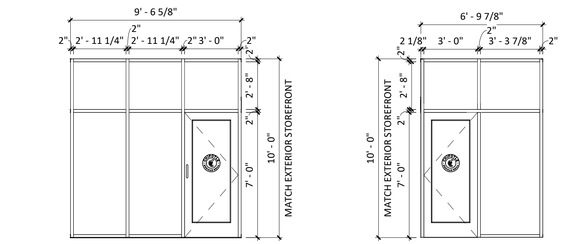
1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "*".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR CHIPOTLE CONSTRUCTION MANAGER PRIOR TO FABRICATION.
4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER PREFINISHED ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, REFER TO SPECIFICATIONS.
5. STOREFRONT SYSTEM IS 2" x 6" NOMINAL DIMENSION; CENTER SET, U.N.O.
6. SEE G001 FOR SPECIFIC PROJECT ENERGY CODE REQUIREMENTS AND VALUES THAT SHALL BE MET.

STOREFRONT TYPES



SCALE: 1/4" = 1'-0"

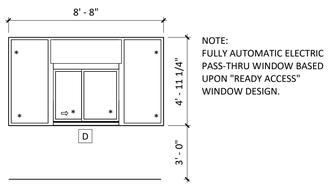
VESTIBULE ELEVATIONS



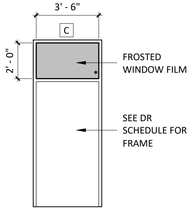
7 A602 **INT ELEV - DINING**
1/4" = 1'-0"

6 A602 **INT ELEV - VESTIBULE**
1/4" = 1'-0"

WINDOW TYPES



NOTE:
FULLY AUTOMATIC ELECTRIC PASS-THRU WINDOW BASED UPON "READY ACCESS" WINDOW DESIGN.



SCALE: 1/4" = 1'-0"

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5873
WWW.LINGLEDESIGN.COM
LICENSED ARCHITECT
CARL L LINGLE
306135
STATE OF COLORADO

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Issue Record:

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Revisions:

1	08/07/2024	PERMIT COMMENTS
3	10/01/2024	Revision 3

Drawn: JM
Checked: CL

Project No.
05-5119

Contents:
STOREFRONT DETAILS

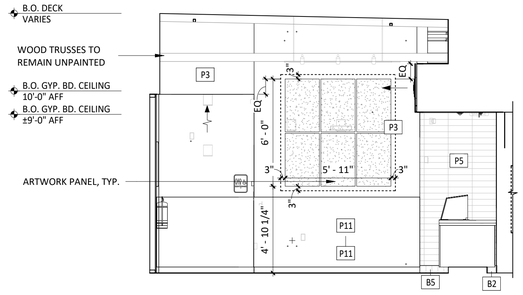
A602

LEGEND

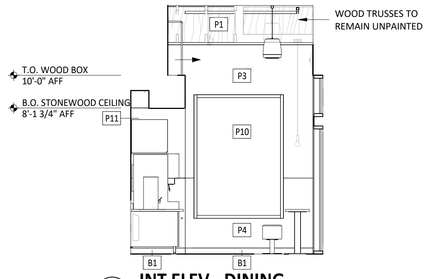
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

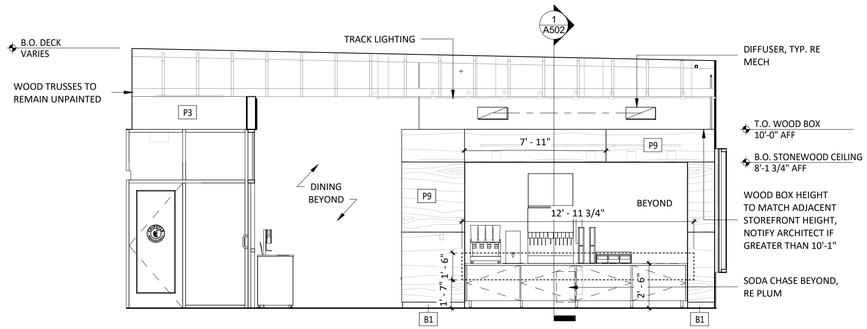
1. REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. REFER TO A120 FOR FINISH SCHEDULE.
3. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



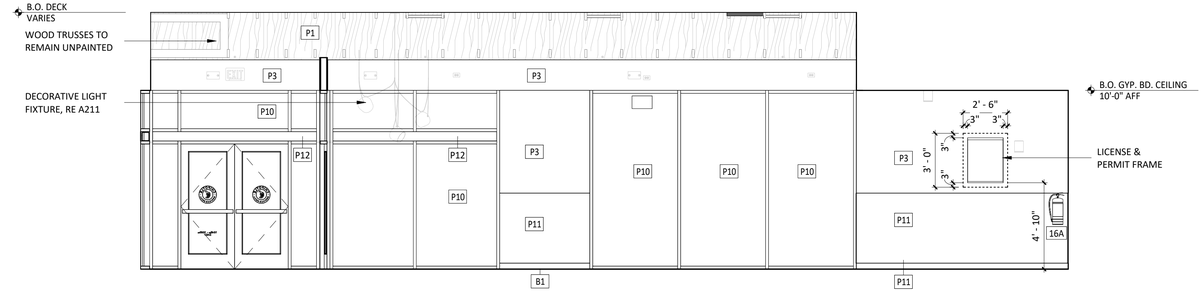
8 A701 **INT ELEV - DINING**
1/4" = 1'-0"



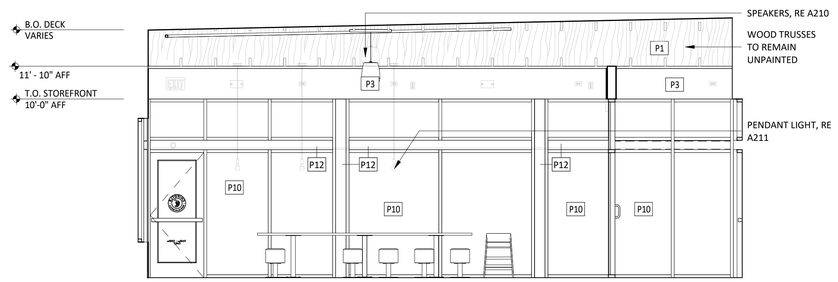
7 A701 **INT ELEV - DINING**
1/4" = 1'-0"



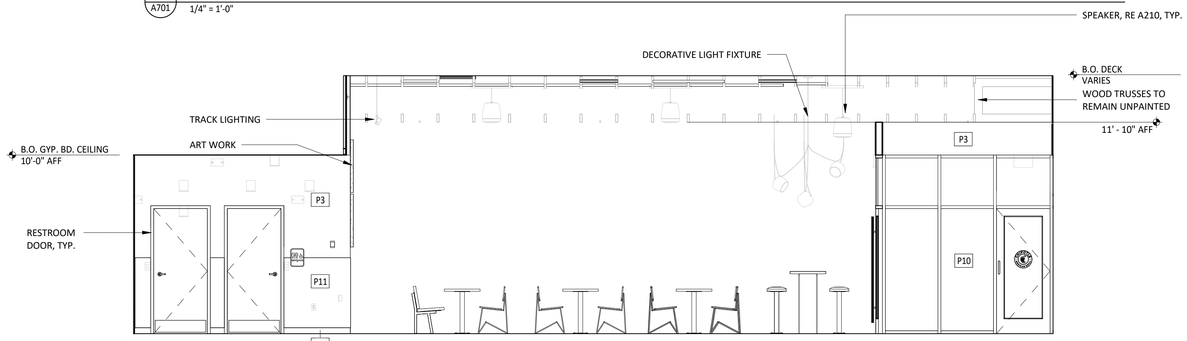
6 A701 **INT ELEV - DINING**
1/4" = 1'-0"



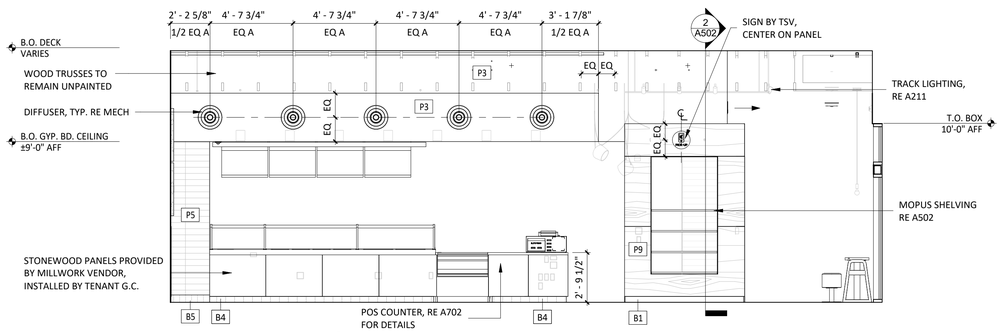
5 A701 **INT ELEV - DINING**
1/4" = 1'-0"



4 A701 **INT ELEV - DINING**
1/4" = 1'-0"



3 A701 **INT ELEV - DINING**
1/4" = 1'-0"



1 A701 **INT ELEV - DINING**
1/4" = 1'-0"

Consultant:

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Issue Record:

05/09/2024	PERMIT SET

Revisions:

Drawn: EYW
Checked: CL

Project No.
05-5119

Contents:
ELEVATIONS - INTERIOR DINING

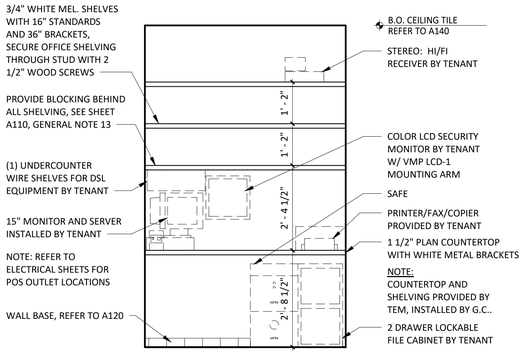
A701

GENERAL NOTES

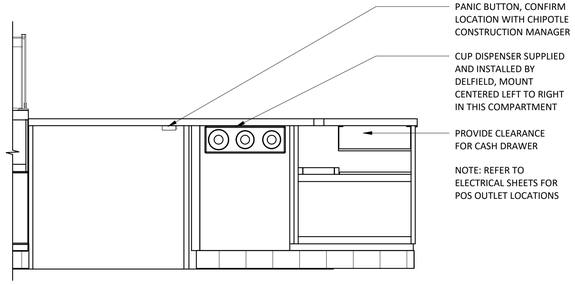
1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

LEGEND

DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

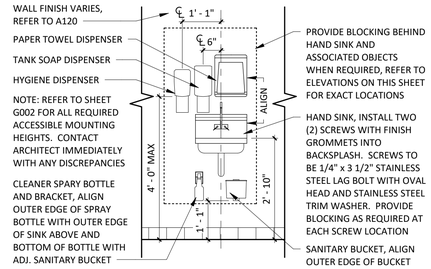


16 A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"

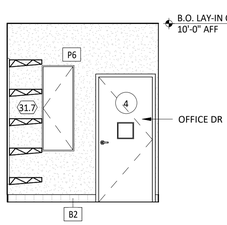


15 A702 **TYP. ELEV - POS**
3/4" = 1'-0"

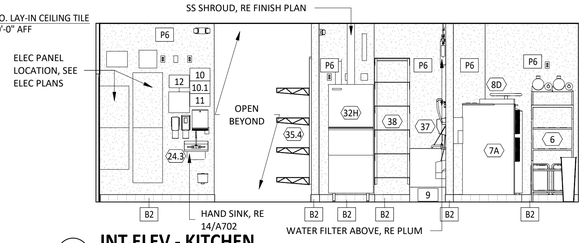
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



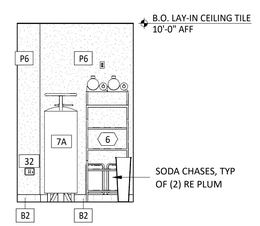
14 A702 **TYP ELEV - HAND SINK**
1/2" = 1'-0"



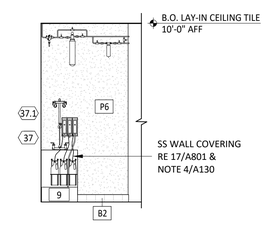
13 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



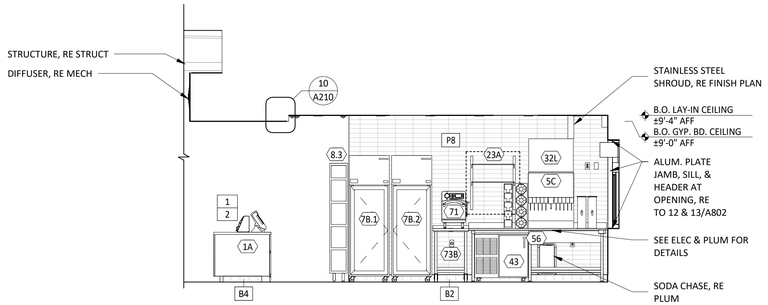
12 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



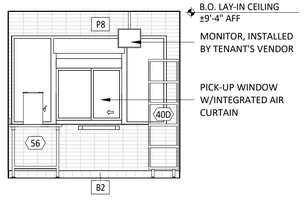
11 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



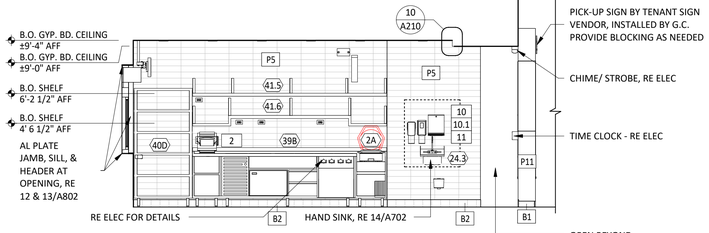
10 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



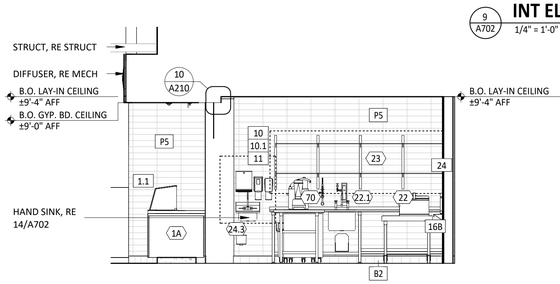
9 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



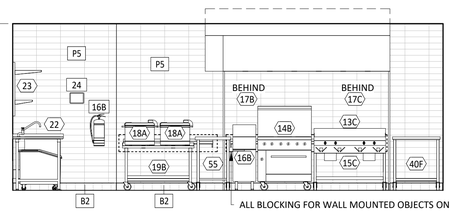
8 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



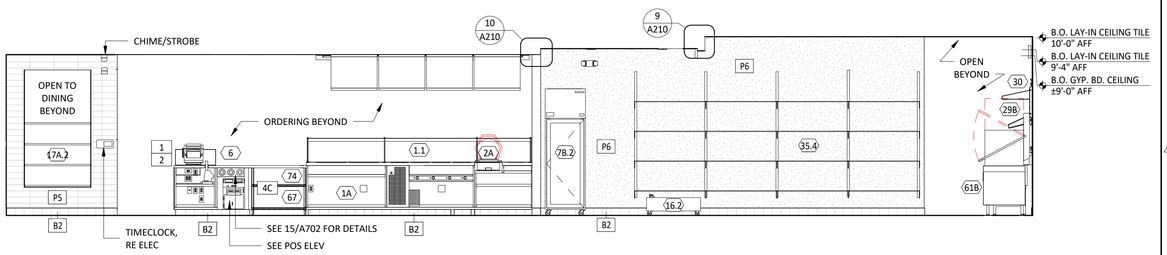
7 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



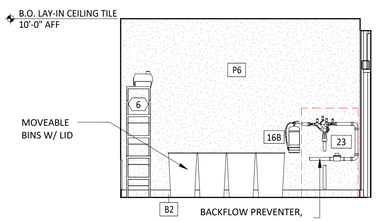
6 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



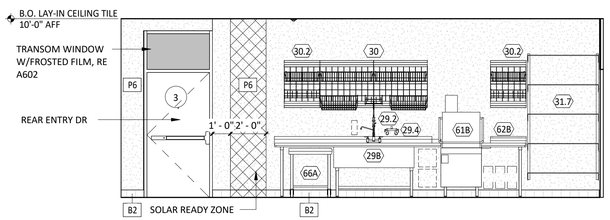
5 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



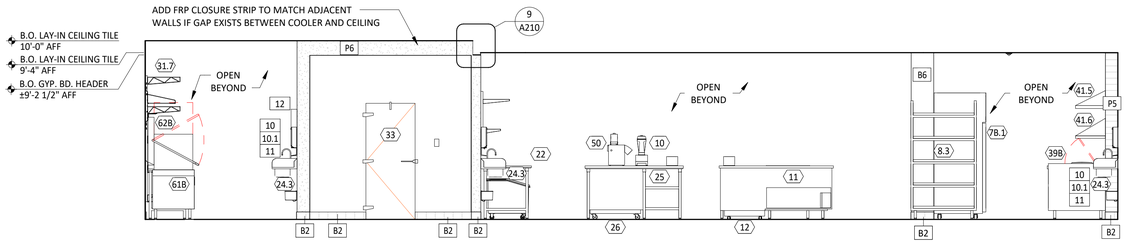
4 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



3 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



2 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



1 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"

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Issue Record:
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Revisions:

Drawn: EYW
Checked: CL

Project No.
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Contents:
ELEVATIONS - INTERIOR KITCHEN

A702

RESTROOM ACCESSORY SCHEDULE

ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	MOUNTING HEIGHT	REMARKS
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC	36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC	40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC	36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
3A	Vandal Proof Mirror	Sentry Mirror	20" x 30" Vandal Proof Mirror	2	TS	GC	Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC	47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC	29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
8	Utility Shelf	ASI	0692	2	WA	GC	46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC	Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC	Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC	Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB300-05	2	WA	GC	Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

PLUMBING FIXTURE SCHEDULE

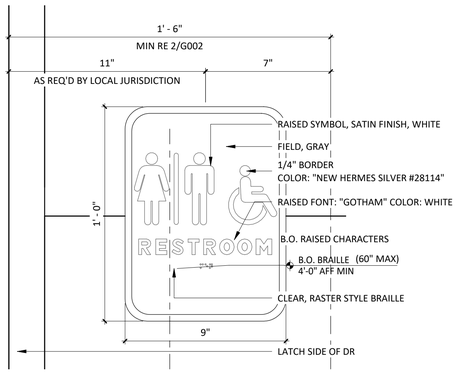
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	MOUNTING HEIGHT	REMARKS
14	Restroom Hand Sink	SEE MEP	SEE MEP	2	GC	GC	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC		To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.

GENERAL NOTES

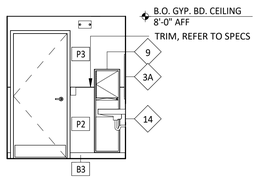
1. ALL DIMENSIONS ARE TO F/O WALL FINISH UNLESS OTHERWISE NOTED.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4. REFER TO A120 FOR FINISH SCHEDULE.
5. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

LEGEND

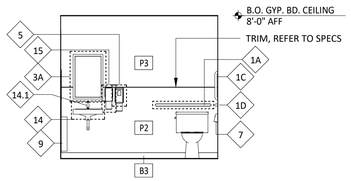
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



11 A710 **ADA RR Signage Elevation**
3" = 1'-0"



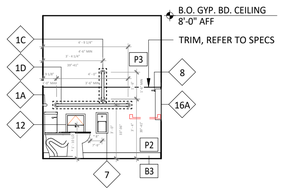
8 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



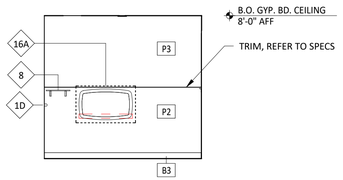
7 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"

*18" MIN PER 2017 ICC A117.1 FIG. 604.7.1 (C) DISPENSER OUTLET LOCATION RECESSED DISPENSER

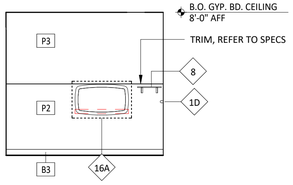
**3'-9" PER 2017 ICC A117.1 FIG. 604.7.1 (D) DISPENSER OUTLET LOCATION IN FRONT OF WATER CLOSET - EXCEPTION



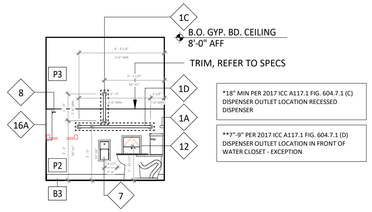
6 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



5 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



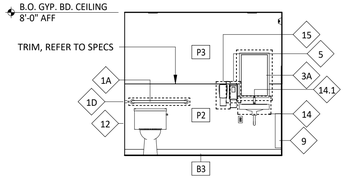
4 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



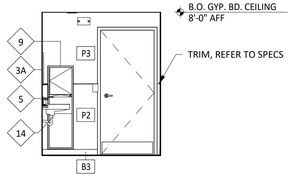
*18" MIN PER 2017 ICC A117.1 FIG. 604.7.1 (C) DISPENSER OUTLET LOCATION RECESSED DISPENSER

**3'-9" PER 2017 ICC A117.1 FIG. 604.7.1 (D) DISPENSER OUTLET LOCATION IN FRONT OF WATER CLOSET - EXCEPTION

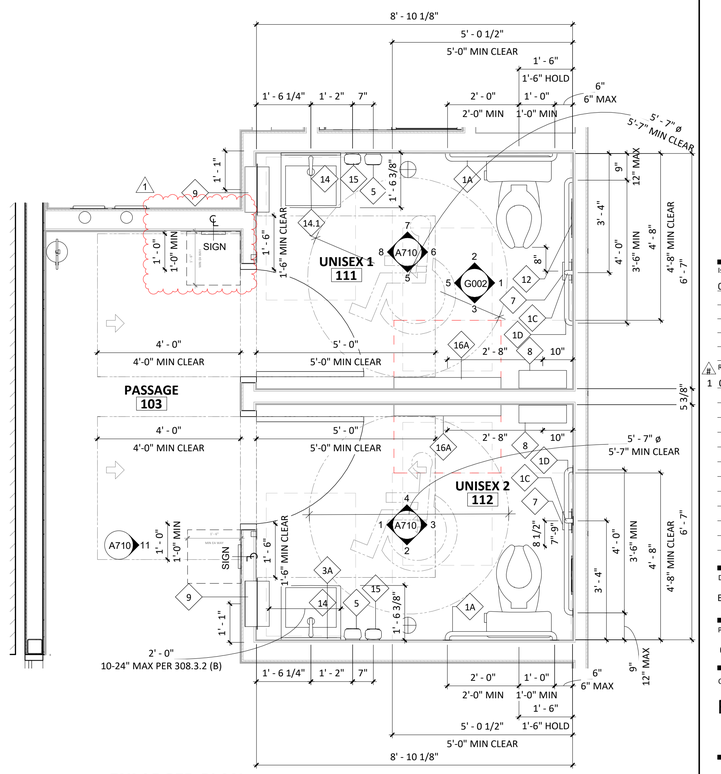
3 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



2 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



1 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



9 A710 **ENLARGED PLAN**
1/2" = 1'-0"

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Revisions:
1 08/07/2024 PERMIT COMMENTS

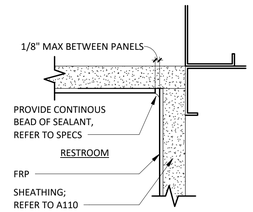
Drawn: EYW
Checked: CL

Project No.
05-5119

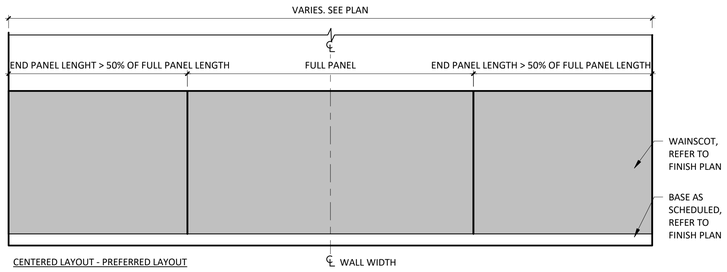
Contents:
RESTROOM DETAILS

A710

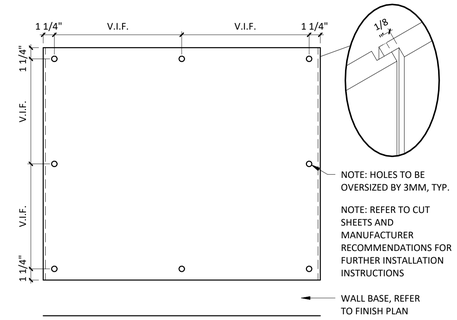
NOTE: ALL CONCEALED WOOD TO BE FRT RATED



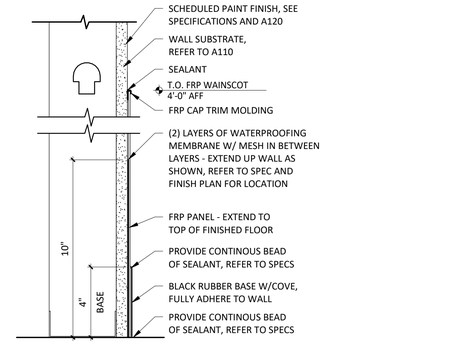
20 A801 **PLAN - RR FRP INSIDE CORNER**
6" = 1'-0"



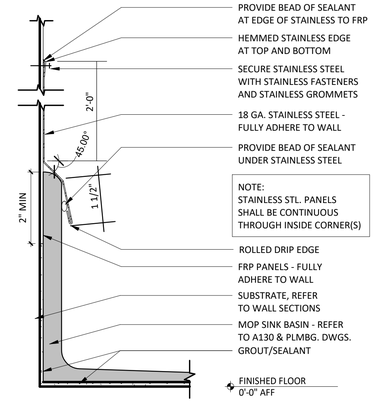
16 A801 **WAINSCOT LAYOUT**
1/2" = 1'-0"



19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"

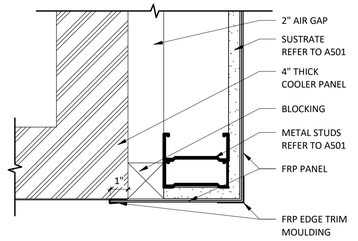


18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"

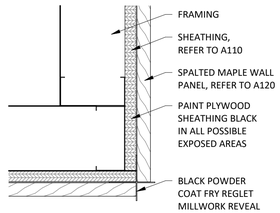


17 A801 **SECTION @ MOP SINK**
6" = 1'-0"

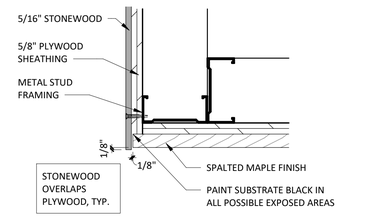
15 A801 **NOT USED**
N.T.S.



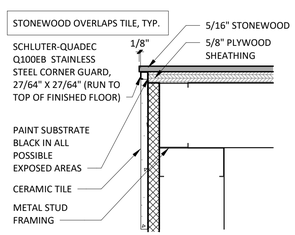
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"

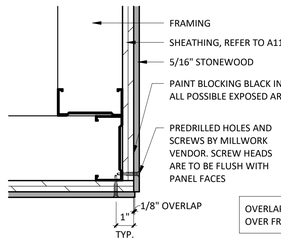


12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"

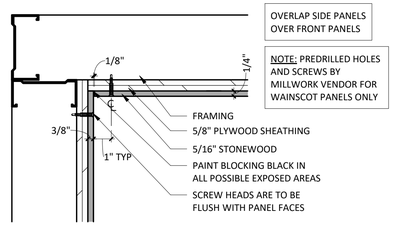


11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"

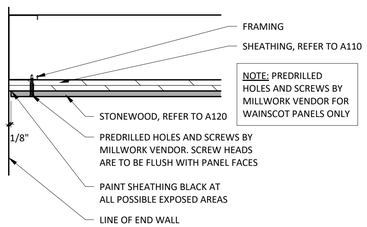
10 A801 **NOT USED**
N.T.S.



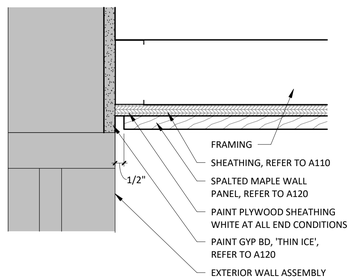
9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"



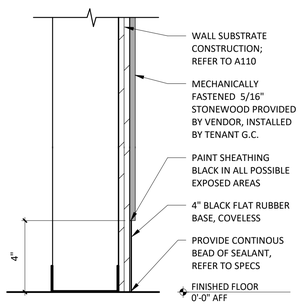
8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"



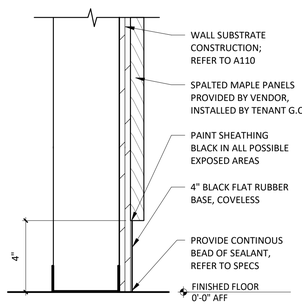
7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"



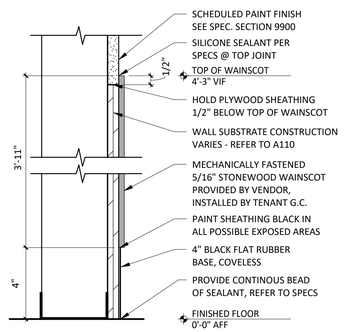
6 A801 **PLAN - WOOD END CONDITION**
3" = 1'-0"



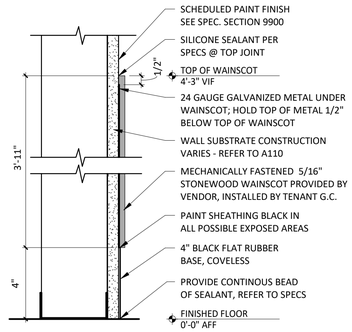
5 A801 **SECTION @ STONEWOOD**
3" = 1'-0"



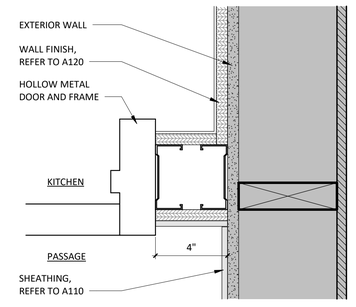
4 A801 **SECTION @ SPALTED MAPLE**
3" = 1'-0"



3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



2 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



1 A801 **PLAN - DOOR JAMB**
3" = 1'-0"

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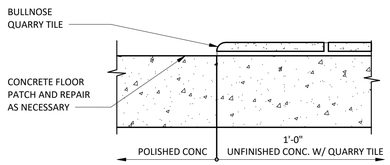
Project No.
05-5119

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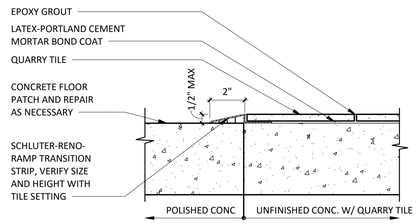
A801

GENERAL NOTES

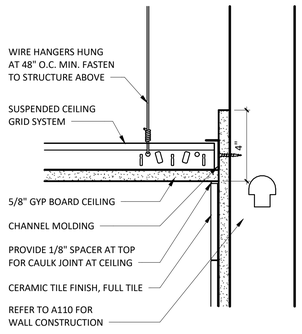
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2.	IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 25% TILE WIDTH AT WALL TERMINATIONS.
3.	UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 1 OR 2.
4.	THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



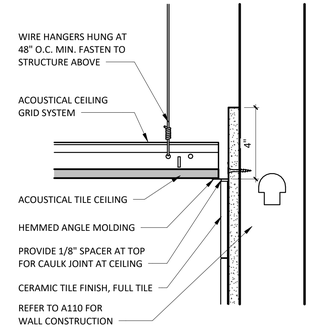
23 A802 **FLOOR TRANSITION @ READY TO DRINK**
3" = 1'-0"



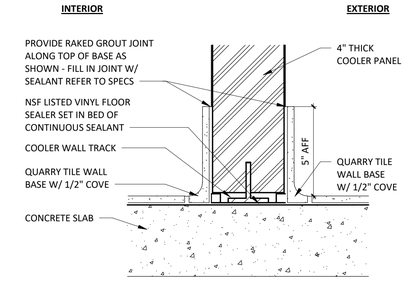
22 A802 **FLOOR TRANSITION W/ RAMP**
3" = 1'-0"



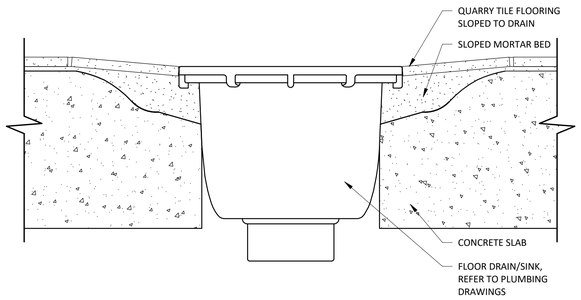
21 A802 **TILE DETAIL @ GYP BD CEILING**
3" = 1'-0"



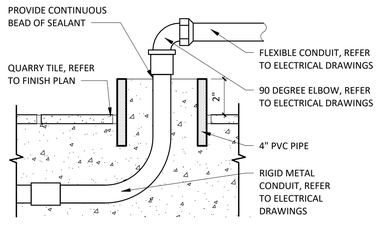
20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



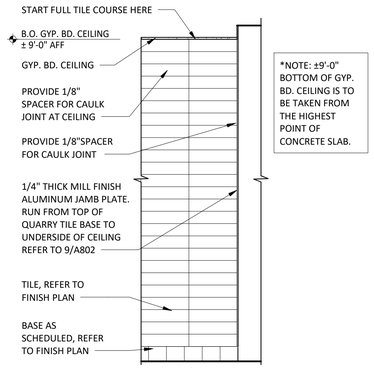
19 A802 **COOLER WALL @ QT**
3" = 1'-0"



18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"

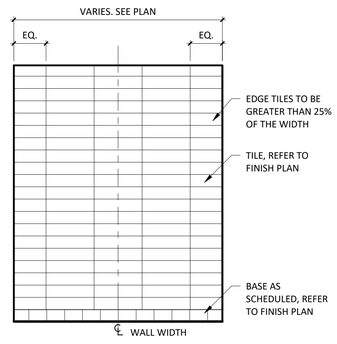


17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"

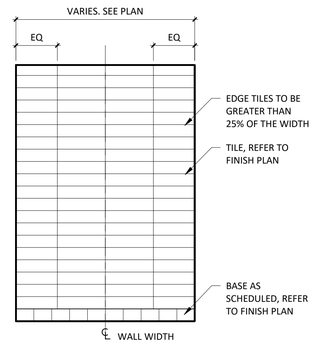


*NOTE: ±9'-0" BOTTOM OF GYP. BD. CEILING IS TO BE TAKEN FROM THE HIGHEST POINT OF CONCRETE SLAB.

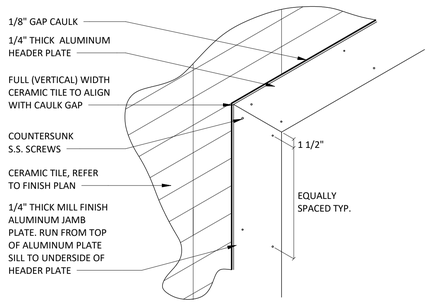
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



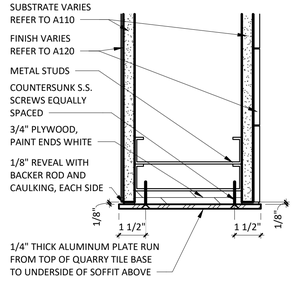
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



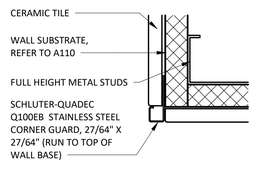
14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"



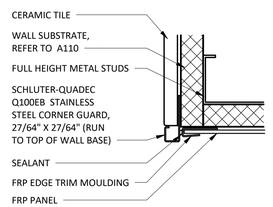
13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



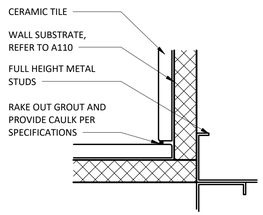
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"



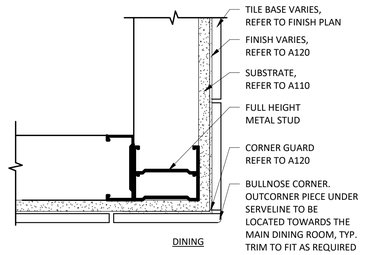
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



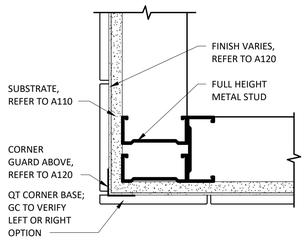
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



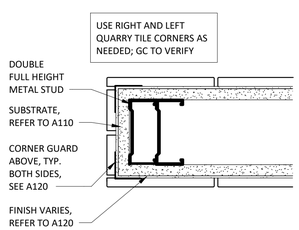
9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



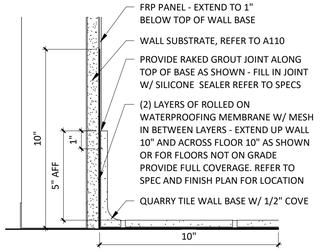
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"



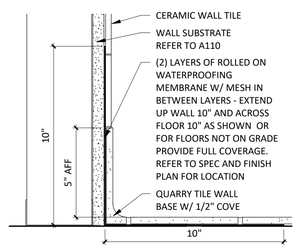
7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



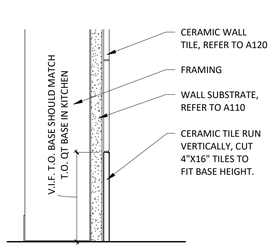
6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



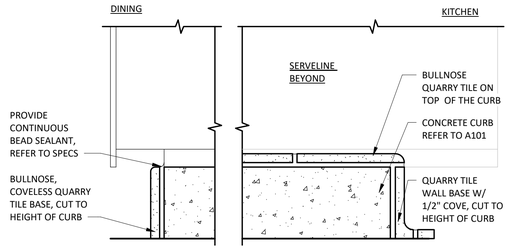
5 A802 **QT BASE @ FRP**
3" = 1'-0"



4 A802 **QT BASE @ CERAMIC TILE**
3" = 1'-0"



3 A802 **CERAMIC TILE BASE**
3" = 1'-0"



2 A802 **QT @ CURB**
3" = 1'-0"

1 A802 **QT @ CURB**
3" = 1'-0"

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Project No.
05-5119

Contents:
TILE DETAILS

A802



4 A900 **INTERIOR PERSPECTIVE**



3 A900 **INTERIOR PERSPECTIVE**



2 A900 **INTERIOR PERSPECTIVE**



1 A900 **INTERIOR PERSPECTIVE**

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Contents:
INTERIOR PERSPECTIVES

A900



4 A901 **EXTERIOR PERSPECTIVE**



3 A901 **EXTERIOR PERSPECTIVE**



2 A901 **EXTERIOR PERSPECTIVE**



1 A901 **EXTERIOR PERSPECTIVE**

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Contents:
EXTERIOR PERSPECTIVES

A901

GENERAL NOTES:

1. THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, CIVIL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS. VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.

2. THE STRUCTURAL HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE 2021 COLORADO STATE BUILDING CODE AND THE 2021 EDITION OF THE INTERNATIONAL BUILDING CODE (IBC 2021).

3. PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.

4. DESIGN LIVE LOADS USED IN THE DESIGN OF THIS STRUCTURE ARE AS FOLLOWS:

LIVE LOADS:
- FLOOR ..... 100 PSF
- ROOF ..... 20 PSF

SNOW:
- GROUND SNOW LOAD (P_g) ..... 35 PSF
- FLAT ROOF (P_f) ..... 25 PSF
- SNOW EXPOSURE FACTOR (C_e) 1.0
- SNOW IMPORTANCE FACTOR(I_s) 1.0
- THERMAL FACTOR (C_t) 1.0

WIND:
- WIND (3 SECOND GUST) ..... V_{ULT} = 115 MPH
  V_{ASD} = 89 MPH
- EXPOSURE ..... B
- RISK CATEGORY II
- INTERNAL PRESSURE GCpi ..... ±0.18
- ULTIMATE WIND BASE SHEAR (MWFRS) ..... V_x 27.6k
  V_Y 14.2k
- COMPONENTS & CLADDING PRESSURE ..... SEE CHART THIS SHEET

SEISMIC:
- SEISMIC IMPORTANCE FACTOR (I_e) 1.0
- RISK CATEGORY II
- MAPPED SPECTRAL RESPONSE ACCELERATIONS....S_S 0.199g
  S_1 ..... 0.056g
- DESIGN SPECTRAL RESPONSE ACCELERATIONS...S_{DS} 0.212g
  S_{D1} 0.090g
- SITE CLASS ..... D
- SEISMIC DESIGN CATEGORY ..... B
- BASIC SEISMIC-FORCE RESISTING SYSTEM ..... LIGHT FRAMED WOOD WALLS SHEATHED WITH WOOD STRUCTURAL PANELS
- SEISMIC RESPONSE COEFFICIENTS C_S 0.044
- ULT SEISMIC BASE SHEAR (V) 2.5k
- RESPONSE MODIFICATION FACTOR R 6.5
- ANALYSIS PROCEDURE USED ..... EQUIVALENT LATERAL FORCE

5. COORDINATE STRUCTURAL, ARCHITECTURAL, MECHANICAL AND CIVIL DRAWINGS PRIOR TO BEGINNING CONSTRUCTION. DISCREPANCIES MUST BE BOUGHT TO THE ATTENTION OF THE ARCHITECT.

FOUNDATION NOTES:

1. THE FOUNDATIONS WERE DESIGNED FOR AN ALLOWABLE SOIL BEARING PRESSURE OF 2,500 PSF PER THE GEOTECHNICAL REPORT BY TRIAX ENGINEERING, LLC DATED AUGUST 4, 2023. THE SOILS BENEATH THE PROPOSED FOOTINGS MUST BE CAPABLE OF SAFELY SUPPORTING THIS LOAD WITHOUT EXCESSIVE SETTLEMENT.

2. REMOVE ALL UNSUITABLE MATERIALS BELOW PROPOSED SLAB AND FOUNDATIONS AS DIRECTED BY THE GEOTECHNICAL ENGINEER. EXPANSIVE CLAYEY SANDS ARE LOCATED ON SITE. UNSUITABLE SOILS SHOULD BE REMOVED TO A MINIMUM DEPTH OF 1'-0" BELOW GRADE PER THE GEOTECHNICAL REPORT. CONTACTOR SHALL PROVIDE STRUCTURAL FILL MATERIAL OF GRAVEL COMPACTED TO A MINIMUM DRY DENSITY OF 95% IN ACCORDANCE WITH ASTM D698 (METHOD C). FORWARD ALL GEOTECHNICAL REPORTS TO THE ARCHITECT.

3. TAKE PRECAUTIONS NECESSARY TO PREVENT STORMWATER FROM ENTERING FOUNDATION EXCAVATIONS. CONCRETE FOR FOUNDATIONS MUST NOT BE PLACED ON SOFT OR SATURATED SOIL. PROOFROLL EXPOSED SUBGRADE SOILS WITH A LARGE RUBBER-TIRED ROLLER OR LOADED DUMP TRUCK. UNSTABLE AREAS AND AREAS THAT EXHIBIT PUMPING MUST BE UNDERCUT AT THE DIRECTION OF A GEOTECHNICAL ENGINEER.

4. SUITABLE STRUCTURAL FILL MATERIAL SHOULD CONSIST OF SAND OR GRAVEL CONTAINING LESS THAN 20% BY WEIGHT OF FINES (SP, SP-SM OR SW BY THE UNIFIED SOILS CLASSIFICATION SYSTEM) AND SHOULD BE FREE FROM RUBBLE, ORGANICS, CLAY, DEBRIS AND OTHER UNSUITABLE MATERIALS. THE USE OF MATERIALS MEETING COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CLASS 6 BASE COURSE IS RECOMMENDED. LIFTS (8" MAXIMUM HEIGHT PRIOR TO COMPACTION) MUST BE COMPACTED TO A MIN. OF 95% OF THEIR MAXIMUM DRY DENSITY IN ACCORDANCE WITH ASTM D698 (METHOD C).

5. FILL MATERIAL PLACED ON SITE IN AREA OF BUILDING MUST BE STRUCTURAL FILL. FILL MUST BE PLACED AND COMPACTED IN 8" LIFTS MAXIMUM AND AT THE DIRECTION OF A GEOTECHNICAL ENGINEER.

6. CONTRACTOR SHALL PROOFROLL EXPOSED SUBGRADE SOILS WITH A LARGE RUBBER-TIRED ROLLER OR LOADED DUMP TRUCK WITH A GROSS WEIGTH NOT LESS THAN 30,000 POUNDS. ALL UNSTABLE AREAS THAT EXHIBIT PUMPING SHALL BE UNDERCUT AT THE DIRECTION OF THE GEOTECHNICAL ENGINEER. COORDINATE ALL CUT AND BACKFILL OPERATIONS WITH THE GEOTECHNICAL ENGINEER.

CONCRETE NOTES:

1. CONCRETE CONSTRUCTION MUST BE IN ACCORDANCE WITH THE ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" AND ACI 301 "STRUCTURAL CONCRETE FOR BUILDINGS"

2. CONCRETE MUST BE NORMAL WEIGHT AND HAVE THE FOLLOWING (28) DAY COMPRESSIVE STRENGTH AND MAXIMUM SLUMPS:
   - A. FOUNDATIONS AND STEM WALLS..... 3,500 PSI, 4"
   - B. INTERIOR SLAB ON GRADE..... 4,000 PSI, 4" TO 5"
   - NOTE: SLUMPS MUST BE..... ±1/2" (SLUMP MEASURED PRIOR TO SUPERPLASTICIZER, WHERE OCCURS)

3. CONCRETE EXPOSED TO FREEZE/THAW CYCLE MUST HAVE 6% (±1 1/2%) ENTRAINED AIR.

4. REINFORCING STEEL:
   - A. DEFORMED BARS (DO NOT WELD)..... ASTM A615 (GRADE 60)
   - B. WELDED WIRE REINFORCING..... ASTM A185 (FLAT SHEETS ONLY)

5. COVER TO REINFORCEMENT:
   - A. BOTTOM OF FOUNDATIONS..... 3"
   - B. SIDES OF FOUNDATIONS (WITHOUT SIDE FORMS)..... 3"
   - C. SIDES OF FOUNDATIONS (FORMED SURFACES)..... 2"
   - D. TOP COVER TO WWR..... 1 1/2"
   - E. OTHER AS NOTED IN SECTIONS OR IN ACI 318.

6. ADHESIVE ANCHORS MUST CONSIST OF GRADE 60 REBAR OR -THREAD ANCHOR ROD, NUT, WASHER, SCREEN AND ADHESIVE. ANCHOR RODS MUST BE GRADE A. EPOXY ANCHORS MUST BE INSTALLED USING AT LEAST MINIMUM DEPTHS, EDGE DISTANCES, SPACING (UNLESS NOTED OTHERWISE), AND INSTALLATION PROCEDURES AS RECOMMENDED BY THE MANUFACTURER. DO NOT APPLY LOAD TO ANCHOR UNTIL RESIN HAS CURED IN ACCORDANCE WITH RECOMMENDATIONS OF THE MANUFACTURER.

7. NON-SHRINK CONCRETE GROUT MUST BE A PRE-MIXED, SHRINKAGE-RESISTANT, NON-METALLIC NON-CORROSIVE, NON-STAINING PRODUCT CONTAINING SILICA SANDS, PORTLAND CEMENT, SHRINKAGE-COMPENSATING AGENTS, PLASTICIZING AND WATER-REDUCING AGENTS COMPLYING WITH CRD-C621 AND ASTM C1107 MIN. COMPRESSIVE STRENGTH = 4,000 PSI AT (7) DAYS.

8. CONSTRUCTION JOINTS MUST BE GENERALLY LOCATED AS RECOMMENDED BY ACI. SEE DETAILS FOR CONTINUOUS KEY BETWEEN ADJACENT POURS AND ADDITIONAL REINFORCING AT THESE CONSTRUCTION JOINTS.

9. TORCHING TO BEND REINFORCING BARS MUST NOT BE ALLOWED.

10. PROVIDE (2) #4 x 3'-0" LONG IN CENTER OF SLAB AT RE-ENTRANT CORNERS SUCH AS BLOCK-OUTS, END OF WALLS, DOORWAYS, ETC.

11. ITEMS EMBEDDED IN CONCRETE OR GROUTED CMU MUST BE TIED AND SECURED PRIOR TO PLACEMENT OF CONCRETE OR GROUT. NO "WET SETTING" IS ALLOWED.

12. REINFORCING SUPPLIER MUST PROVIDE COMPLETE PLACEMENT AND FABRICATING DRAWINGS FOR REINFORCING INCLUDING THE LOCATION AND SIZE OF ACCESSORIES AND SUPPORTS. SECTIONS MUST BE SHOWN FOR DIFFERENT CONDITIONS.

13. FOR SLAB-ON-GRADE, SLAB REINFORCING MUST BE HELD IN PLACE BY BAR SUPPORTS AND ACCESSORIES AS DESCRIBED IN CHAPTER 3 OF THE CRSI MANUAL OF STANDARD PRACTICE. BAR SUPPORTS MUST BE SPACED A MAXIMUM OF 4'-0" ON CENTER BOTH WAYS IN STRAIGHT LINES ON THE WELDED WIRE REINFORCING GRID.

CONCRETE NOTES CONTINUED:

14. REINFORCEMENT SHOWN TO BE CONTINUOUS, MUST BE LAPPED PER THE FOLLOWING TABLE:

MINIMUM CONCRETE LAP LENGTH (IN.)						
CONCRETE	#4	#5	#6	#7	#8	#9
3,500 PSI	29"	36"	43"	64"	73"	81"
4,000 PSI	25"	31"	37"	55"	63"	70"

15. CONTROL JOINT MUST BE CUT WITHIN (6) SIX HOURS OF FINISHING OR AS SOON AS CONCRETE HAS SET TO AVOID RAVELING OF EDGES. COORDINATE JOINT PATTERN WITH TILE PATTERNS OR SIMILAR. DO NOT EXCEED 12'-0" ON CENTER. DO NOT TERMINATE JOINTS TO FORM 'T' JUNCTION.

16. AGGREGATES IN NORMAL WEIGHT CONCRETE MUST CONFORM TO ASTM C-33 (HARDROCK).

17. COMPRESSIVE STRENGTH TEST REPORTS MUST BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD.

18. PORTLAND CEMENT MUST BE TYPE II FOR CONCRETE CONFORMING TO ASTM C150, LOW ALKALI. MILL TESTS WITH CERTIFICATES OF COMPLIANCE MUST BE SUBMITTED.

19. FLY ASH OR OTHER POZZOLANS CONFORMING TO ASTM C618 CLASS N OR F MAY BE USED AS A PARTIAL SUBSTITUTION FOR PORTLAND CEMENT UP TO A MAXIMUM OF 25% TOTAL CEMENTITIOUS MATERIALS BY WEIGHT IF THE MIX DESIGN IS PROPORTIONED PER ACI 318, SECTION 5.3.

20. CONCRETE MIXING OPERATIONS, ETC. MUST CONFORM TO ASTM C94.

21. DO NOT USE CONCRETE OR GROUT CONTAINING CHLORIDES. WATER USED IN MIX MUST BE CLEAN AND POTABLE.

22. FOR INTERIOR SLAB-ON-GRADE AND OTHER SLABS RECEIVING ADHERED FLOORING FINISHES, THE MAXIMUM W/C RATIO MUST NOT EXCEED 0.46.

MASONRY NOTES:

1. MASONRY CONSTRUCTION MUST BE IN ACCORDANCE WITH THE 2016 EDITION OF THE TMS 402-16 " BUILDING CODE FOR MASONRY STRUCTURES", AND THE 2016 EDITION OF THE TMS 602-16 "SPECIFICATION FOR MASONRY STRUCTURES.

2. LOAD-BEARING CONCRETE MASONRY UNITS MUST BE TYPE I UNITS IN CONFORMANCE WITH ASTM C 90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE.

3. MORTAR MUST BE TYPE M OR S IN CONFORMANCE WITH ASTM C 270.

4. MASONRY UNITS MUST BE IN ACCORDANCE WITH ASTM C 90 (1900 PSI). ASSEMBLED CONCRETE MASONRY MUST ATTAIN AN ULTIMATE NET AREA COMPRESSIVE STRENGTH (f' m) OF 2800 PSI AT 28 DAYS.

5. REINFORCING STEEL MUST BE IN ACCORDANCE WITH ASTM A615, GRADE 60.

6. UNLESS OTHERWISE NOTED OR DETAILED, CENTER REINFORCING IN BLOCK CELLS AND TIE IN PLACE AT INTERVALS OF 4'-0" O/C MAXIMUM.

7. REINFORCED CELLS MUST BE FULLY GROUTED FROM TOP TO BOTTOM. GROUT MUST BE 3,000 PSI. GROUT MUST CONFORM TO ASTM C 476. GROUT MUST HAVE A SLUMP BETWEEN 8 TO 10 INCHES.

8. BUILD, REINFORCE, AND GROUT THE MASONRY WALL, VIBRATING GROUT IMMEDIATELY AFTER PLACEMENT.

9. PROVIDE REBAR DOWELS OF SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM WALLS OR FOOTINGS. DOWELS INTO FOOTINGS MUST HAVE STANDARD ACI HOOKS AND MUST LAP 40 BAR DIAMETERS. REINFORCING WALL BARS MUST LAP AS INDICATED BELOW:

MASONRY LAP LENGTH (IN.)					
CMU	#4	#5	#6	#7	#8
8" CMU	26"	32"	39"	MS	MS

MS = MECHANICAL SPLICES REQUIRED W/ 125% OF BAR TENSILE CAPACITY. AT THE CONTRACTORS OPTION, MECHANICAL SPLICES MAY BE USED IN LIEU OF LAP SPLICES SHOWN.

10. PROVIDE GALVANIZED HORIZONTAL LADDER TYPE JOINT REINFORCING WITH STANDARD LADDER TYPE NO. 9 GAUGE CROSS RODS AT 16" O/C ON WALLS. PROVIDE HORIZONTAL JOINT REINFORCING IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW OPENINGS, EXTENDING A MINIMUM OF 2'-0" BEYOND THE JAMB ON EACH SIDE OF THE OPENING.

11. VERTICAL CELLS TO BE FILLED MUST HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR, UNOBSTRUCTED, CONTINUOUS VERTICAL CELL MEASURING NOT LESS THAN 2 INCHES BY 3 INCHES. "WET SETTING" REINFORCING IS NOT ALLOWED.

12. IF HIGH LIFT GROUTING IS USED (GROUT POUR IS IN EXCESS OF FOUR FEET IN HEIGHT), CLEANOUT OPENINGS, AT LEAST 12 SQUARE INCHES, MUST BE PROVIDED AT THE BOTTOM OF CELLS TO BE FILLED AT EACH POUR OF GROUT.

STRUCTURAL STEEL NOTES:

1. STRUCTURAL STEEL FOR THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE FOURTEENTH EDITION OF THE "MANUAL OF STEEL CONSTRUCTION" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC), ALLOWABLE STRESS DESIGN".

2. STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS UNLESS OTHERWISE NOTED:
   - A. STRUCTURAL TUBING (HSS) - ASTM A500, GRADE C, Fy = 50 KSI.
   - B. MISCELLANEOUS STEEL ANGLES, CHANNELS AND PLATES - ASTM A36, GRADE 36 KSI.
   - C. STRUCTURAL WIDE FLANGE SHAPES - ASTM A992, GRADE 50, Fy = 50 KSI
   - D. ANCHOR RODS - ASTM F1554, GRADE 36, Fy = 36 KSI.
   - E. POST CONSTRUCTION ADHESIVE ANCHORS: ANCHOR ROD; GRADE 60 REBAR; OR ASTM A36 -THREAD ANCHORED TO SUBSTRATE WITH HILTI HY200 EPOXY (IN CONCRETE) OR HILTI HY270 EPOXY (IN MASONRY).

3. STRUCTURAL STEEL WORK MUST CONFORM TO AISC STANDARDS.

4. FIELD BOLTED SHEAR CONNECTIONS MUST BE BEARING TYPE CONNECTIONS (THREADS INCLUDED IN THE SHEAR PLANE) WITH A MINIMUM OF (2)-3/4 INCH DIAMETER ASTM A325 HIGH STRENGTH BOLTS UNLESS OTHERWISE NOTED.

5. STEEL EXPOSED TO WEATHER MUST BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A123 UNLESS OTHERWISE NOTED.

6. WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL." WELD ELECTRODES MUST BE E70XX LOW HYDROGEN.

7. 0.157" DIAMETER POWDER ACTUATED FASTENERS (PAF) MUST HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS:
   - A. CONCRETE: SHEAR = 260 POUNDS; TENSION = 255 POUNDS (3" EDGE DISTANCE)
   - B. STEEL: SHEAR = 600 POUNDS; TENSION = 250 POUNDS (1/2" EDGE DISTANCE)

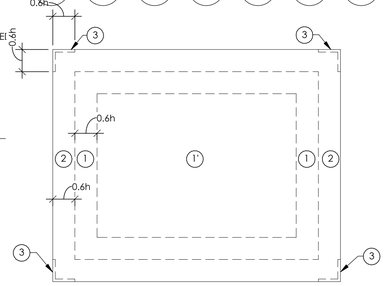
COMPONENTS AND CLADDING NOTES

1. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE SURFACES, RESPECTIVELY.

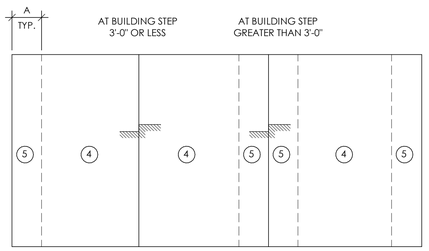
2. BUILDING ZONES ARE DEFINED IN ASCE 7.

COMPONENTS AND CLADDING WIND LOADS...

ZONE		EFFECTIVE WIND AREA (S.F.) 10 PRESS.	10 SUCT.	20 PRESS.	20 SUCT.	50 PRESS.	50 SUCT.	100 PRESS.	100 SUCT.
	1	16.00	-33.80	16.00	-33.80	16.00	-28.80	16.00	-25.80
ROOF	2	16.00	-54.00	16.00	-46.90	16.00	-28.80	16.00	-25.80
	3	16.00	-58.00	16.00	-51.00	16.00	-39.90	16.00	-39.90
	OH 2/3	-60.43	-72.52	-56.40	-62.45	-50.36	-49.35	-46.33	-39.28
	4	21.80	-23.60	19.90	-22.70	19.00	-20.80	18.50	-19.90
WALL	5	21.80	-29.00	19.90	-27.20	19.00	-25.00	18.50	-22.80
	PARA. 4	60.66	-33.72	52.81	-31.31	35.95	-28.90	32.79	-27.62
	PARA. 5	64.22	-38.53	56.37	-35.32	45.76	-32.59	45.28	-30.19



PLAN



WALL ELEVATION

A=3.5'

ISOMETRIC VIEW

COMPONENTS AND CLADDING DIAGRAMS

NOT TO SCALE

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05/09/24

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Contents:
GENERAL NOTES

S001

23.170

WOOD NOTES:

1. ALL WOOD SHALL BE IN ACCORDANCE WITH THE LATEST EDITIONS OF THE "NATIONAL DESIGN SPECIFICATION," AND THE AMERICAN PLYWOOD ASSOCIATION "PLYWOOD DESIGN SPECIFICATION" (APA). WOOD FRAMING LUMBER SHALL COMPLY WITH PS 20 "AMERICAN SOFTWOOD LUMBER STANDARDS" AND THE SOUTHERN PINE INSPECTION BUREAU (SPIB) GRADING RULES.

2. ALL STRUCTURAL FRAMING LUMBER FOR BEARING AND SHEAR WALLS SHALL BE SEASONED NO. 2 SOUTHERN PINE USED AT 19 PERCENT MOISTURE CONTENT UNLESS OTHERWISE NOTED. ALL NON-STRUCTURAL, NON-BEARING WALLS CAN BE EITHER NO. 2 SPRUCE PINE FIR OR NO. 2 SOUTHERN PINE USED SEASONED AT 19 PERCENT MOISTURE CONTENT UNLESS OTHERWISE NOTED.

3. ALL LUMBER EXPOSED TO WEATHER, IN CONTACT WITH CONCRETE OR MASONRY, NOTED TO BE TREATED, AND SILL PLATES SHALL BE PRESSURE TREATED.

4. ALL NAILS ARE "COMMON" NAILS AND NAILING SHALL CONFORM TO THE "FASTENING SCHEDULE" TABLE 2304.9.1 OF THE IBC UNLESS OTHERWISE NOTED.

5. ALL NAILS, BOLTS, ANCHORS AND ASSOCIATED HARDWARE SHALL BE HOT-DIP GALVANIZED IN ACCORDANCE WITH ASTM A-123 UNLESS OTHERWISE NOTED.

6. PROVIDE SIMPSON JOIST HANGARS, HOLDOWN ANCHORS, HURRICANE TIES AND OTHER ACCESSORIES AS REQUIRED IN THESE STRUCTURAL DRAWINGS (GALVANIZED) OR EQUAL AS APPROVED BY ENGINEER OF RECORD. COORDINATE WITH MANUFACTURER'S WRITTEN REQUIREMENTS.

7. SHEATHING SHALL BE 8'x4' APA RATED PANELS AND SHALL COMPLY WITH PS 1 "STRUCTURAL PLYWOOD" OR PS 2 "PERFORMANCE STANDARD FOR WOOD-BASED STRUCTURAL-USE PANELS" AND THE FOLLOWING REQUIREMENTS:

   A. SHEATHING SHALL BE NAILED TO SUPPORTING FRAMING MEMBERS WITH 10d NAILS AT 6" O/C AROUND THE PERIMETER OF THE PANEL (EDGE NAILING) AND 12" O/C INSIDE THE PANEL (FIELD NAILING) UNLESS OTHERWISE NOTED. SEE TYPICAL DETAIL FOR SHEAR WALLS FOR ADDITIONAL INFORMATION.

   B. EXTERIOR WALL: 15/32", APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION, UNLESS OTHERWISE NOTED.

   C. ROOF SHEATHING: 23/32" A.P.A. RATED EXTERIOR GRADE SHEATHING AND SHALL BE NAILED WITH 10d NAILS TO SUPPORTING MEMBERS AT 4" O/C EDGE AND 12" O/C FIELD. PROVIDE TONGUE AND GROOVE EDGES OR PSCL CLIPS AT MIDSPAN BETWEEN SUPPORTS.

   D. SHEAR WALLS: 15/32" A.P.A. RATED SHEATHING, EXPOSURE I DURABILITY CLASSIFICATION NAILED TO SUPPORTING FRAMING MEMBERS PER SHEAR WALL SCHEDULE. SEE TYPICAL DETAIL FOR ADDITIONAL INFORMATION.

8. ENGINEERED LUMBER SHOWN (WOOD I JOISTS, LVL, PSL, ETC.) IS BASED ON DATA FROM WEYERHAEUSER AND GRADE 2.0E.

9. NAIL MULTIPLE FRAMING MEMBER BEAMS TOGETHER WITH (2)-16d NAILS AT 16 INCHES ON CENTER, ALTERNATING SIDES AND AT 2 INCHES FROM EACH EDGE OR PER MANUFACTURER'S DIRECTION.

10. 0.157" DIAMETER POWDER ACTUATED FASTENERS (PAF) SHALL HAVE A MINIMUM ALLOWABLE CAPACITY INTO THE BASE MATERIAL AS FOLLOWS UNLESS OTHERWISE NOTED:
    A. CONCRETE: SHEAR = 260 LBS; TENSION = 255 LBS (3" EDGE DISTANCE)
    B. STEEL: SHEAR = 600 LBS; TENSION = 250 LBS ½" EDGE DISTANCE

11. ALL EXPOSED WOOD BRACING LOCATED IN AIR RETURN PLENUMS SHALL BE FIRE RETARDANT LUMBER.

SHEAR WALL NOTES

1. SEE TYPICAL SHEAR WALL DETAILS ON SHEET S402 FOR ADDITIONAL INFORMATION NOT NOTED.

2. PROVIDE SIMPSON "CS16" STRAPS EACH SIDE OF DOOR OR WINDOW OPENINGS AND EACH SIDE OF SILL AND HEAD OF OPENING LOCATED WITHIN SHEAR WALL.

3. ALL SHEAR WALLS SHEATHING IS TO BE BLOCKED AT ALL PANEL EDGES. SEE WOOD NOTES AND TYPICAL SHEATHING NAILING PATTERN DETAIL ON SHEET S402 FOR ADDITIONAL INFORMATION.

4. SPACING OF HOLDOWN ANCHORS FOR FOUNDATION AND FLOOR FRAMING SHALL BE LOCATED AT ENDS OF SHEAR WALLS. SEE PLANS FOR LOCATIONS OF SHEAR WALLS.

PREFABRICATED WOOD TRUSS NOTES:

1. THE TRUSS MANUFACTURER MAY VARY TRUSS CONFIGURATION, MEMBER SIZE AND LUMBER GRADE AS REQUIRED TO OBTAIN SPAN AND ROOF PITCH AS NOTED. SEE ARCHITECTURAL DRAWINGS FOR OTHER REQUIREMENTS. ALTERATIONS TO LAYOUT ORIENTATION MAY CHANGE LOAD PATH AND MUST BE FLAGGED AS DEVIATIONS. THIS MAY BE SUBJECT TO ADDITIONAL ENGINEERING CHARGES AND CHANGES TO LOWER FRAMING AND FOUNDATIONS.

2. THE TRUSS MANUFACTURER SHALL NOT COUNT NUMBER OF TRUSSES SHOWN ON FRAMING PLANS TO DETERMINE NUMBER OF EACH TYPE OF TRUSS BUT SHALL USE DIMENSIONS SHOWN ON PLAN AND SHALL COORDINATE WITH PLUMBING AND MECHANICAL OPENINGS.

3. ALL TRUSS DESIGN SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL DESIGN SPECIFICATION OF THE NATIONAL FOREST PRODUCT ASSOCIATION AND THE TRUSS PLATE INSTITUTE (TPI).

4. THE TRUSS MANUFACTURER SHALL EMPLOY A PROFESSIONAL ENGINEER TO BE RESPONSIBLE FOR THE DESIGN OF ALL ASPECTS OF THE TRUSS INCLUDING TRUSS TO TRUSS CONNECTION, TRUSS TO STRUCTURE CONNECTIONS AND ACCESSORIES. THE TRUSS MANUFACTURER SHALL HAVE IN HIS POSSESSION THE DESIGN LOADS, THE ARCHITECTURAL DRAWINGS, THE MECHANICAL DRAWINGS AND THE STRUCTURAL TRUSS PLAN PRIOR TO TRUSSES BEING DESIGNED.

5. PROVIDE SHOP DRAWINGS FOR APPROVAL FOR ALL WOOD TRUSSES INCLUDING SIZES, LOCATIONS, ALLOWABLE LOADS, AND CONNECTIONS BETWEEN TRUSSES AND TRUSS TO STRUCTURE CONNECTIONS. TRUSS CONNECTOR PLATES SHALL BE DESIGNED FOR AXIAL LOADS, ECCENTRICITY, AND NET SECTION OF METAL. SHOP DRAWINGS SHALL BE SIGNED AND STAMPED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE PROJECT'S STATE. SUBMIT CALCULATIONS, FOR RECORD PURPOSES ONLY, WITH SHOP DRAWINGS. OBTAIN ACKNOWLEDGEMENT OF RECEIPT OF CALCULATIONS PRIOR TO FABRICATING TRUSSES.

6. ALL TRUSS TO STRUCTURE HURRICANE CLIPS SHALL BE DESIGNED TO RESIST UPLIFT LOADS PROVIDED BY THE PRE-FABRICATED TRUSS MANUFACTURER. ALL ROOF FRAMING SHALL HAVE CLIPS SUFFICIENT TO RESIST UPLIFT LOADS PER COMPONENTS AND CLADDING INFORMATION SHOWN ON S001.

7. MINIMUM DESIGN LOADS FOR WOOD TRUSSES ARE AS FOLLOWS:
   A. ROOF TRUSS:
      - TOP CHORD DEAD LOAD ..... 10 PSF+5 PSF (SOLAR SYSTEM) = 15 PSF TOTAL
      - TOP CHORD LIVE LOAD ..... 20 PSF TYPICAL
      - TOP CHORD SNOW LOAD..... 25 PSF (SEE PLAN FOR APPLICABLE SNOW DRIFT LOADS)
      - BOTTOM CHORD DEAD LOAD ..... 5 PSF
      - BOTTOM CHORD LIVE LOAD ..... 0 PSF

8. THE MAXIMUM DEFLECTION OF TRUSSES SHALL BE LIMITED TO L/360 AND L/240 FOR ROOF LIVE LOAD, AND DEAD PLUS LIVE LOAD RESPECTIVELY, L IS EQUAL TO TRUSS SPAN.

9. TRUSSES SHALL BE PREFABRICATED BY A WOOD TRUSS MANUFACTURER AND SHALL BE FABRICATED USING LIGHT GAGE METAL PLATE CONNECTIONS AND CONSTRUCTED OF THE FOLLOWING MATERIALS:
   A. ALL ROOF TRUSS MEMBERS SHALL BE A MINIMUM SIZE OF 2x4 .
   B. ALL MEMBERS SHALL BE SOUTHERN PINE #2 MINIMUM GRADE KILN DRIED TO 19% M.C.
   C. CONNECTOR PLATES SHALL BE GALVANIZED SHEET STEEL CONFORMING TO GRADE A, ASTM A446 WITH EXTENDED TEETH, WHICH ARE EMBEDDED INTO WOOD FOR THE PURPOSE OF TRANSMITTING LOAD.

10. PROVIDE TEMPORARY AND PERMANENT DIAGONAL AND CONTINUOUS BRACING PERPENDICULAR TO TRUSSES AT WEB MEMBERS AS REQUIRED BY TRUSS FABRICATORS SHOP DRAWINGS AND PER THE TPI. SIZE AND SPECIES OF THE BRACING SHALL BE SELECTED BY THE TRUSS MANUFACTURER. WHERE PRESENT, THE SHEATHING PROVIDES PERMANENT BRACING FOR THE TOP CHORD MEMBERS.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER HANDLING AND ERECTION OF THE TRUSSES AND FOR THE PROPER PERMANENT AND TEMPORARY BRACING. THE CONTRACTOR SHALL ENSURE THAT THE TRUSSES ARE NOT DAMAGED DURING ERECTION AND THAT THEY ARE MAINTAINED IN ALIGNMENT BEFORE, DURING AND AFTER ERECTION. THE TRUSSES SHALL BE HANDLED, BRACED AND ERECTED IN ACCORDANCE WITH THE RECOMMENDATIONS OF THE TRUSS MANUFACTURER.

SPECIAL INSPECTION NOTES:

1. SPECIAL INSPECTIONS MUST BE COMPLETED PER THE SCHEDULE OF SPECIAL INSPECTIONS.

2. THE FOLLOWING ELEMENT SPECIAL INSPECTIONS SUMMARIES ARE ACCORDING TO IBC SECTIONS 1704 AND 1705.11.

3. EARTHWORK MUST BE SPECIAL INSPECTED AS FOLLOWS:
   A. PRIOR TO PLACEMENT OF PREPARED FILL, QUALITY ASSURANCE AGENT MUST DETERMINE THE SITE HAS BEEN PREPARED ACCORDING TO THE GEOTECHNICAL REPORT.

4. CONCRETE AND ELEMENTS EMBEDDED IN CONCRETE MUST BE SPECIAL INSPECTED PRIOR TO, AND DURING, PLACEMENT OF CONCRETE. SPECIAL INSPECTIONS MUST INCLUDE THE FOLLOWING:

   A. PERIODIC INSPECTION:
      1. REINFORCING STEEL SIZE AND PLACEMENT
      2. VERIFY USE OF APPROVED MIX DESIGN
      3. AFTER PLACEMENT TO ENSURE ADEQUATE CURING AND WEATHER PROTECTION PROCEDURES
      4. SURFACE PREPARATION AND DETAILS AT COLD JOINTS, INCLUDING PLACEMENT OF KEYWAYS
      5. VERIFICATION OF IN-PLACE CONCRETE STRENGTH

   B. CONTINUOUS INSPECTION:
      1. BOLTS TO BE INSTALLED IN CONCRETE PRIOR TO AND DURING PLACEMENT OF CONCRETE
      2. PLACEMENT OF CONCRETE

5. STRUCTURAL MASONRY MUST BE SPECIAL INSPECTED ACCORDING TO THE FOLLOWING:

   A. PERIODIC INSPECTION:
      1. PROPORTIONS OF SITE-PREPARED MORTAR
      2. CONSTRUCTION OF MORTAR JOINTS
      3. SPECIFIED SIZE, LOCATION, GRADE AND TYPE OF REINFORCEMENT
      4. SIZE AND LOCATION OF STRUCTURAL ELEMENTS
      5. TYPE, SIZE AND LOCATION OF ANCHORS, INCLUDING DETAILS OF ANCHORAGE OF MASONRY TO PRIMARY STRUCTURAL SYSTEM
      6. CLEANLINESS OF GROUT SPACE
      7. PROTECTION OF MASONRY DURING HOT AND COLD WEATHER PLACEMENT

   B. CONTINUOUS INSPECTION:
      1. PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS AND / OR PRISMS
      2. GROUT PLACEMENT MUST BE VERIFIED TO ENSURE COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENT PROVISIONS

6. STRUCTURAL STEEL FABRICATION AND ERECTION MUST BE SPECIAL INSPECTED AS FOLLOWS:

   A. PERIODIC INSPECTION:
      1. HIGH-STRENGTH BOLTS, NUTS AND WASHERS ACCORDING TO AISC 360
      2. SINGLE-PASS FILLET WELDS LESS THAN OR EQUAL TO 5/16"
      3. STEEL FRAME JOINT DETAILS FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS INCLUDING MEMBER LOCATIONS, CONNECTION DETAILS AND OTHER BRACING AND STIFFENING DETAILS
   B. CONTINUOUS INSPECTION:
      1. FILLET WELDS GREATER THAN 5/16"
      2. FULL PENETRATION WELDS

7. POST-INSTALLED ANCHORS, INCLUDING BUT NOT LIMITED TO EXPANSION ANCHORS, ADHESIVE ANCHORS, AND LOW VELOCITY FASTENERS MUST BE SPECIAL INSPECTED ACCORDING TO THE RELEVANT ANCHOR CODE EVALUATION REPORTS.

   A. PERIODIC SPECIAL INSPECTION IS REQUIRED DURING THE INSTALLATION OF POST-INSTALLED ANCHORS. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR ADHESIVE ANCHORS THAT ARE A PART OF THE LATERAL-FORCE RESISTING SYSTEM. SPECIAL INSPECTOR MUST VERIFY THE FOLLOWING:
      1. ANCHOR SIZE AND STEEL GRADE
      2. HOLE DIAMETER, LOCATION AND TYPE OF DRILL BIT
      3. COMPLIANCE WITH MANUFACTURER'S INSTRUCTIONS, INCLUDING HOLE AND ANCHOR CLEANLINESS, AND ADHESIVE APPLICATION
      4. ANCHOR EMBEDMENT DEPTH

8. SEE THE SCHEDULE OF SPECIAL INSPECTIONS, IBC AND OTHER CONSULTANTS' DRAWINGS FOR NON-STRUCTURAL ITEMS REQUIRED TO BE SPECIAL INSPECTED.

LEGEND/ABBREVIATIONS (STRUCTURAL SHEETS ONLY)

A.B.	ANCHOR BOLT	LLV	LONG LEG VERTICAL
A.S.C.E.	AMERICAN SOCIETY OF CIVIL ENGINEERS	LOC.	LOCATIION
ABV.	ABOVE	LONG.	LONGITUDINAL
ADDTL.	ADDITIONAL	M.E.P.	MECHANICAL, ELECTRICAL AND PLUMBING
ARCH.	ARCHITECTURAL	M.P.H.	MILES PER HOUR
BLDG.	BUILDING	MANUF.	MANUFACTURER
BOTT.	BOTTOM	MAS.	MASONRY
BRG.	BEARING	MAT'L	MATERIAL
C.J.	CONSTRUCTION JOINT	MAX.	MAXIMUM
CMU	CONCRETE MASONRY UNIT	MECH.	MECHANICAL
℄	CENTERLINE	MIN.	MINIMUM
CLR.	CLEAR	O.S.H.A.	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
COL.	COLUMN	O/C	ON CENTER
CONC.	CONCRETE	OPNG.	OPENING
CONN.	CONNECTION	OPP.	OPPOSITE
CONT.	CONTINOUS	PEJ	PREFORMED EXPANSION JOINT
CONT'R	CONTRACTOR	PSF	POUNDS PER SQUARE FOOT
COORD.	COORDINATE	PSI	POUNDS PER SQUARE INCH
C.J.	CONTROL JOINT	PL	PLATE
DEMO.	DEMOLISH	REINF.	REINFORCEMENT, REINFORCED
DET.	DETAIL	REQ'D.	REQUIRED
DIA. / ø	DIAMETER	SCHED.	SCHEDULE
DWGS.	DRAWINGS	SECT.	SECTION
E.F.	EACH FACE	SHT.	SHEET
E.W.	EACH WAY	SIM.	SIMILAR
EA.	EACH	SPA.	SPACES
ELEV. / EL.	ELEVATION	SPECS.	SPECIFICATIONS
EMBED.	EMBEDMENT	SQ.	SQUARE
EQ.	EQUAL	STD.	STANDARD
EXIST.	EXISTING	T&B	TOP AND BOTTOM
EXP.	EXPANSION	T.O.	TOP OF
FIN.	FINISH	TEMP.	TEMPERATURE
FTG.	FOOTING	THK.	THICK
GALV.	GALVANIZED	TRANS.	TRANSVERSE
H.S.	HIGH STRENGTH	TYP.	TYPICAL
HK.	HOOK	U.O.N.	UNLESS OTHERWISE NOTED
HORIZ.	HORIZONTAL	WWR	WELDED WIRE REINFORCING
INFO.	INFORMATION	W/	WITH
INSUL.	INSULATION		
LLH	LONG LEG HORIZONTAL		

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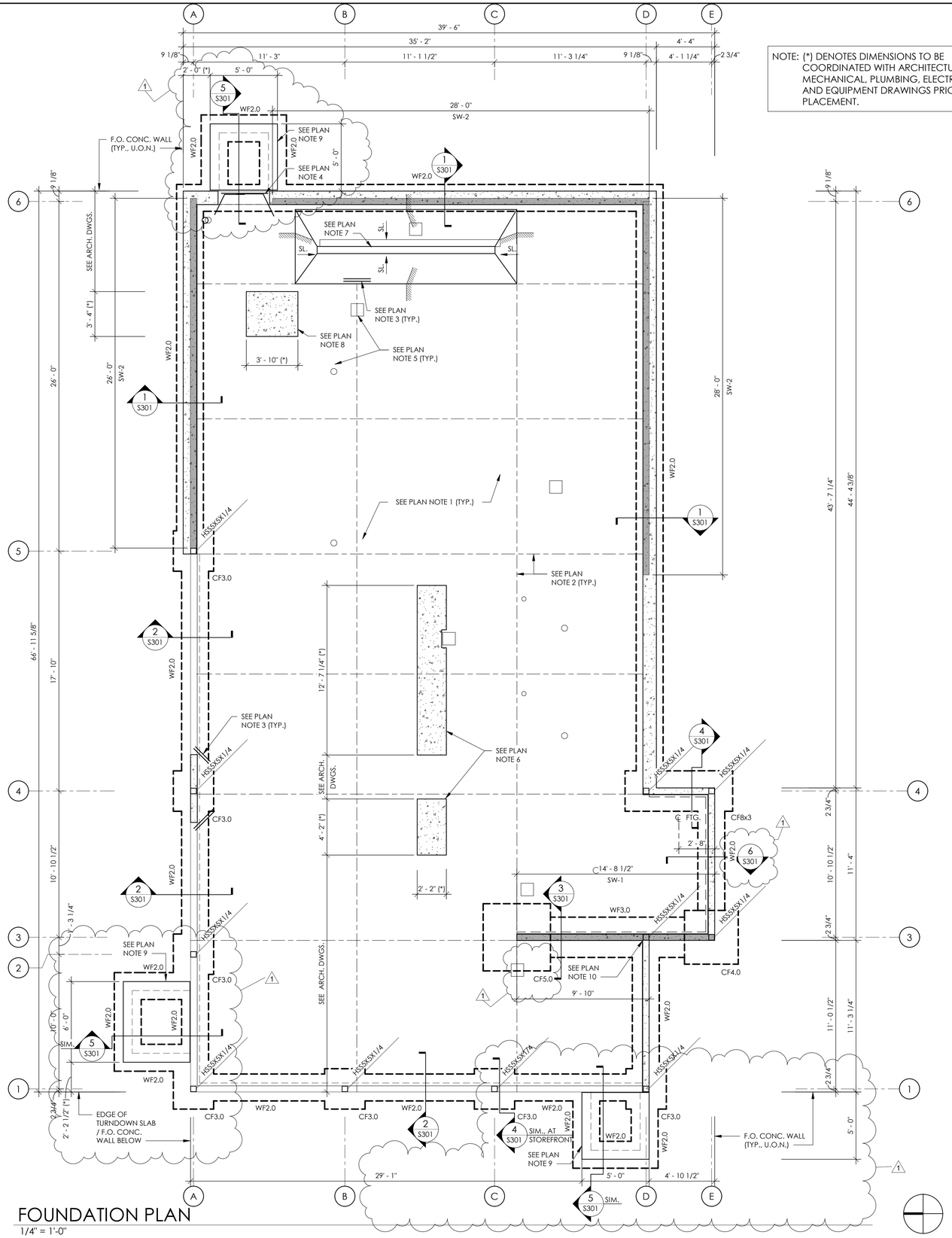
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Project No.
CMG4909

Contents:
GENERAL NOTES

S002

33170



FOUNDATION PLAN
1/4" = 1'-0"

NOTE: (*) DENOTES DIMENSIONS TO BE COORDINATED WITH ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL AND EQUIPMENT DRAWINGS PRIOR TO PLACEMENT.

FOUNDATION - GENERAL NOTES:

1. TOP OF EXTERIOR FOOTING ELEVATION SHALL BE (-2'-6") BELOW TOP OF SLAB ELEVATION. CONTRACTOR SHALL STEP FOOTINGS AS REQUIRED FOR UTILITY CROSSINGS OR POOR SOIL CONDITIONS. SEE 'TYPICAL STEPPED FOOTING DETAIL' ON SHEET S200 FOR ADDITIONAL INFORMATION.
2. WALL FOOTINGS ARE DENOTED ON PLAN, THUS WFX.X. COLUMN FOOTINGS ARE DENOTED ON PLAN, THUS CFX.X. SEE FOOTING SCHEDULES ON THIS SHEET FOR SIZE AND REINFORCING.
3. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT STORMWATER FROM ENTERING FOUNDATION EXCAVATIONS. CONCRETE FOR FOUNDATIONS SHALL NOT BE PLACED ON SOFT OR SATURATED SOIL.
4. CONTRACTOR SHALL COORDINATE ALL UTILITY LOCATIONS WITH CIVIL, LANDSCAPE AND ARCHITECTURAL DRAWINGS. MECHANICAL AND PLUMBING LINES SHALL NOT CROSS UNDER FOOTINGS, UNLESS OTHERWISE NOTED. ALL OPENINGS IN CONCRETE STEM WALL SHALL BE LESS THAN 24" WIDE AND REINFORCED PER TYPICAL CONCRETE WALL OPENING DETAIL. SEE CIVIL DRAWINGS FOR UTILITY LINES LOCATION AND INVERT ELEVATION.
5. COORDINATE PLAN DIMENSIONS WITH ARCHITECTURAL DRAWINGS FOR OPENINGS IN EXTERIOR AND INTERIOR WALLS NOT NOTED ON PLAN. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
6. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE SLABS NOT SHOWN FOR CLARITY. PROVIDE 1/2" PEJ BETWEEN SLAB AND FOUNDATION WALL, UNLESS OTHERWISE NOTED.

FOUNDATION - PLAN NOTES:

1. FIRST FLOOR CONSTRUCTION SHALL CONSIST OF A 5" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 SPACED AT 12 ON CENTER EACH WAY OVER 10 MIL POLYETHYLENE VAPOR BARRIER AND 4" OF POROUS FILL MATERIAL OVER COMPACTED STRUCTURAL FILL. TOP OF SLAB ELEVATION = (0'-0"), UNLESS OTHERWISE NOTED.
2. PROVIDE SAWED JOINTS (S.J.) PER ACI 318 AND ACI 350 SPECIFICATIONS. SEE TYPICAL SLAB-ON-GRADE DETAILS ON SHEET S200 FOR ADDITIONAL INFORMATION.
3. PROVIDE (2)-#4 x 3'-0" LONG BARS (DIAGONALLY) AT RE-ENTRANT CORNERS WITHOUT ANY CONTROL JOINTS. BARS SHALL BE PLACED 4" FROM CORNER AND AT MID-HEIGHT OF SLAB. PROVIDE (2)-#4 x 3'-0" LONG CENTERED AT LOCATIONS WHERE DISCONTINUED JOINTS CANNOT BE AVOIDED. THICKENED SLAB REINFORCING MEETS THIS REQUIREMENT. COORDINATE CONSTRUCTION AND SAWED JOINT LOCATIONS WITH FLOOR FINISHES.
4. SEE 'TYPICAL EXTERIOR DOOR REINFORCING DETAIL' ON SHEET S200 FOR REQUIRED INFORMATION AT DOOR.
5. COORDINATE DRAIN LOCATIONS WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
6. 4" THICK ELEVATED HOUSEKEEPING PAD BELOW SERVE LINES. SEE TYPICAL DETAIL ON SHEET S301 FOR ADDITIONAL INFORMATION. COORDINATE PAD LOCATION WITH ARCHITECTURAL, PLUMBING, MECHANICAL AND ELECTRICAL DRAWINGS.
7. COORDINATE SIZE AND LOCATION OF TRENCH DRAIN WITH ARCHITECTURAL AND PLUMBING DRAWINGS. SEE TRENCH DRAIN DETAIL ON SHEET A101 FOR ADDITIONAL INFORMATION. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED SLOPE OF CONCRETE SLAB AROUND TRENCH DRAIN.
8. 5" THICK ELEVATED HOUSEKEEPING PAD CENTERED BELOW WATER HEATER. SEE TYPICAL DETAIL ON SHEET S301 FOR ADDITIONAL INFORMATION. COORDINATE PAD LOCATION WITH ARCHITECTURAL AND PLUMBING DRAWINGS.
9. PROVIDE 4" THICK CONCRETE STOOP REINFORCED WITH #4 SPACED AT 12" ON CENTER OVER 4" POROUS FILL MATERIAL OVER COMPACTED STRUCTURAL FILL. COORDINATE ELEVATION WITH CIVIL DRAWINGS.
10. CONTINUE SHEARWALL SHEATHING INTO INTERIOR OF BUILDING WITHOUT INTERRUPTION.

COLUMN FOOTING SCHEDULE

MARK	DIMENSIONS WIDTH	LENGTH	DEPTH	REINFORCING	REMARKS
CF3.0	3' - 0"	3' - 0"	1' - 0"	(3)-#5 EA. WAY (BOTT.)	
CF4.0	4' - 0"	4' - 0"	1' - 6"	(5)-#5 EA. WAY (T&B)	
CF5.0	5' - 0"	5' - 0"	1' - 6"	(6)-#5 EA. WAY (T&B)	
CF8x3	3' - 0"	8' - 0"	1' - 0"	(8)-#5 SHORT WAY (BOTT.) (4)-#5 LONG WAY (BOTT.)	

WALL FOOTING SCHEDULE

MARK	DIMENSIONS WIDTH	DEPTH	REINFORCING CONTINUOUS	TRANSVERSE	NOTES
WF2.0	2' - 0"	1' - 0"	(3)-#5 CONT. (BOTT.)	#4 @ 48" O/C (BOTT.)	
WF3.0	3' - 0"	1' - 0"	(3)-#5 CONT. (BOTT.)	#4 @ 48" O/C (BOTT.)	

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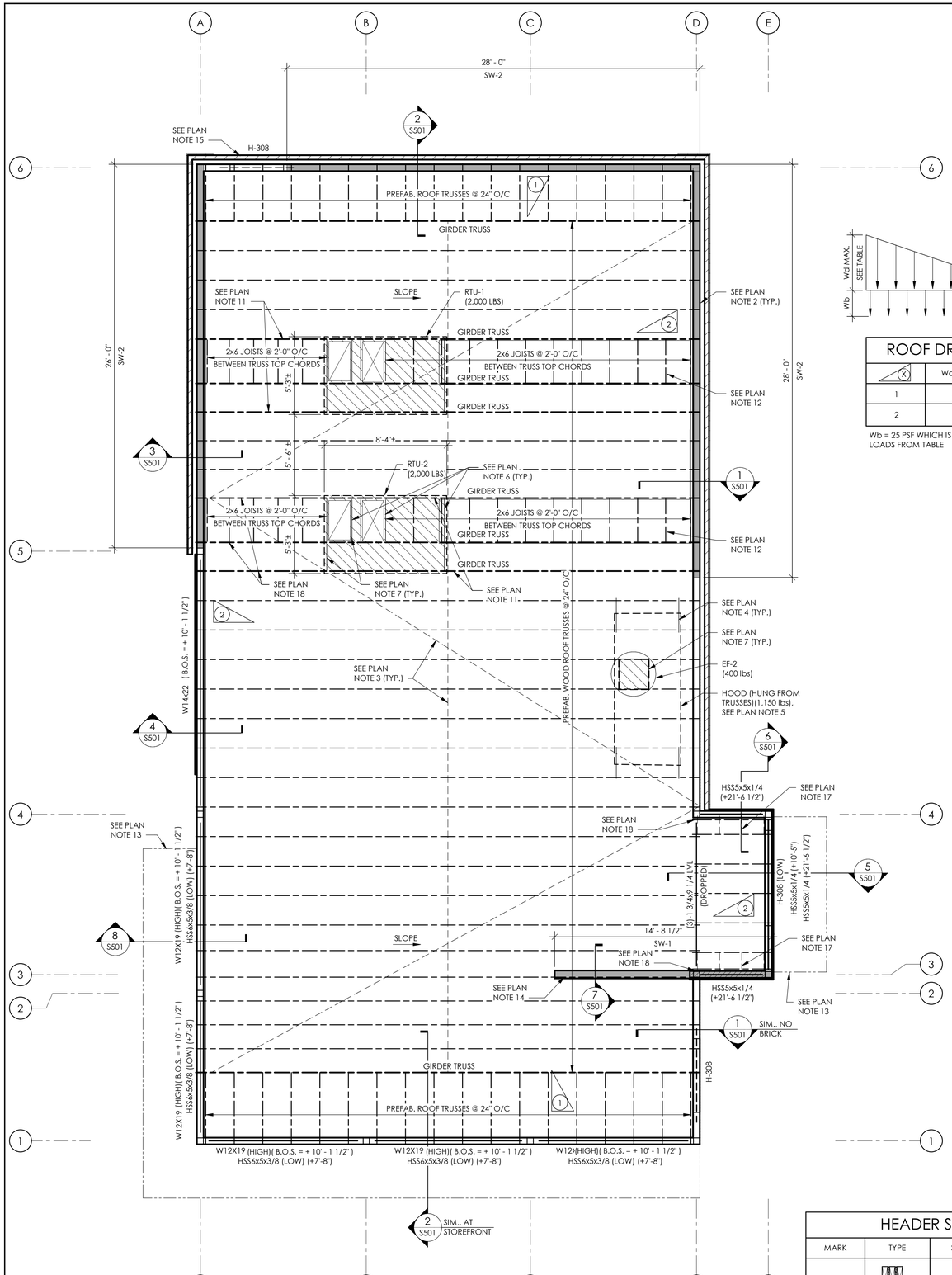
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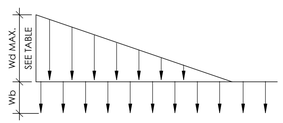
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Contents:
FOUNDATION PLAN

S100

23-170





ROOF DRIFT LOADS

X	Wd (PSF)	L (FT.)
1	35	10
2	27	7

Wb = 25 PSF WHICH IS IN ADDITION TO DRIFT LOADS FROM TABLE

HEADER SCHEDULE

MARK	TYPE	SIZE	REMARKS
H-308		(3)-2x8	PROVIDE (2)-1/2" PLYWOOD GUSSETS

ROOF FRAMING PLAN
1/4" = 1'-0"

ROOF FRAMING - GENERAL NOTES:

1. TYPICAL TRUSS BEARING ELEVATION = +11'-10" UNLESS OTHERWISE NOTED ON ARCHITECTURAL DRAWINGS FOR TRUSS BEARING ELEVATIONS AT TOP OF PLATE . SEE CORRESPONDING SECTIONS AND DETAILS FOR DIMENSIONS TO TRUSS OR RAFTER WORK POINTS. NOTIFY ARCHITECT IF DISCREPANCIES ARE FOUND.
2. CONTRACTOR SHALL COORDINATE ALL OPENINGS IN THE EXTERIOR WALLS AS WELL AS INTERIOR BEARING WALLS WITH THE ARCHITECTURAL DRAWINGS. PROVIDE HEADERS AS SHOWN ON PLAN THUS LABELED (H-X). SEE HEADER SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION AND SIZES. PROVIDE A MINIMUM OF (1)-JACK AND (2)-KING STUDS AT HEADER/BEAM BEARING LOCATIONS, UNLESS OTHERWISE NOTED.
3. ROOF TRUSSES SHOWN ON THIS PLAN SHALL NOT BE USED FOR TRUSS PLACEMENT. CONTRACTOR SHALL FOLLOW APPROVED TRUSS SHOP DRAWINGS FOR TRUSS PLACEMENT. MANUFACTURER SHALL NOT INCREASE TRUSS SPACING BEYOND 2'-0" ON CENTER UNLESS OTHERWISE NOTED ON PLAN. CONTRACTOR SHALL SUBMIT SIGNED AND SEALED SHOP DRAWINGS OF ROOF FRAMING FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. ALTERATIONS TO LAYOUT ORIENTATION MAY CHANGE LOAD PATH AND MUST BE FLAGGED AS DEVIATIONS. THIS MAY BE SUBJECT TO ADDITIONAL ENGINEERING CHARGES AND CHANGES TO LOWER FRAMING AND FOUNDATIONS.
4. ROOF FRAMING IS A COMBINATION OF PRE-FABRICATED TRUSS FRAMING, ENGINEERED AND CONVENTIONAL LUMBER. CONTRACTOR SHALL PROVIDE STRUCTURAL FRAMING AS SPECIFIED OR APPROVED EQUAL BY STRUCTURAL ENGINEER OF RECORD.
5. CONTRACTOR SHALL PROVIDE BLOCKING BETWEEN TRUSSES AT ALL BEARING WALLS PER 'TYPICAL BLOCKING DETAIL' ON SHEET S400, UNLESS OTHERWISE NOTED AND VENT HOLES AS REQUIRED BY THE ARCHITECT. CONTRACTOR SHALL INSTALL BLOCKING AT SHEAR WALLS, BEARING WALLS, TRUSS EACH END AND ADDITIONAL BLOCKING BETWEEN TRUSSES AS REQUIRED BY THE MANUFACTURER.
6. CONTRACTOR SHALL PROVIDE EXTERIOR GRADE SHEATHING FOR ROOF SHEATHING. SHEATHING SHEETS SHALL BE IN RUNNING BOND PATTERN AND SHALL BE NAILED PER SHEET S001, UNLESS OTHERWISE NOTED. PROVIDE SHEATHING CLIPS BETWEEN EDGES BETWEEN TRUSSES. SEE SHEET S001 FOR ADDITIONAL INFORMATION.
7. SEE ARCHITECTURAL DRAWINGS FOR ROOF SLOPES.
8. SHEAR WALLS ARE DENOTED THUS (SW-X) ON PLAN AND ARE BEARING WALLS TIGHT TO TRUSS BEARING ELEVATION. PROVIDE TRUSSES ABOVE SHEAR WALLS RATED FOR SHEAR TRANSFER, SEE TYPICAL DETAIL. SHEAR WALL HOLDOWNS ARE DENOTED IN SCHEDULE. SEE SHEAR WALL SCHEDULE AND SHEAR WALL DETAILS ON SHEETS S402 FOR ADDITIONAL INFORMATION.
9. PROVIDE END WALL TRUSSES / CRIPPLE FRAMING / BLOCKING PANELS TO SUPPORT WALLS ABOVE AND PROVIDE STABILITY FOR ROOF TRUSS ENDS. LOCATE CRIPPLE STUDS BELOW STUDS AND JAMBS ABOVE.
10. PROVIDE KING STUDS FULL-HEIGHT OF BUILDING TO MATCH WIDTH OF BEARING ABOVE AT ALL GIRDER TRUSSES.
11. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL ROOF TOP EQUIPMENT SIZE, WEIGHT AND LOCATONS WITH MECHANICAL DRAWINGS. TRUSS MANUFACTURER SHALL COORINATE WITH ARCHITECTURAL AND MECHANICAL DRAWINGS PRIOR TO FABRICATION.

ROOF FRAMING - PLAN NOTES:

1. PRE-FABRICATED METAL-PLATE CONNECTED WOOD ROOF TRUSSES SPACED AT 2'-0" (MAXIMUM) ON CENTER AND SHEATHED WITH PLYWOOD CONSTRUCTION PANELS. BOTTOM CHORD IS HORIZONTAL. TOP CHORD SLOPES TO ACHIEVE 1/4" PER FOOT ROOF SLOPE. HEEL OF TRUSS SHALL BE A MINIMUM OF 2'-0" AT EXTERIOR WALL.
2. 2x6 STUDS ATTACHED TO EACH TRUSS AND EXTEND UP TO TOP OF PARAPET AROUND ROOF PERIMETER. SEE PLAN AND COORDINATE WITH ARCHITECTURAL DRAWINGS FOR PARAPET HEIGHTS. PARAPET STUD FRAMING IS AN INTEGRAL PART OF THE ROOF TRUSSES.
3. PROVIDE TRUSS BRACING AS REQUIRED PER TRUSS MANUFACTURER.
4. PROVIDE 4x4 HOOD SUPPORT FRAMING ABOVE BOTTOM CHORD OF TRUSSES. PROVIDE 5/8"Ø THREADED ROD, (TYPICAL 1 EACH END / CORNER). PROVIDE DOUBLE NUT AND WASHER AT EACH SUPPORT ROD LOCATION. COORDINATE NUMBER OF LOCATIONS OF BEAMS WITH ARCHITECTURAL AND MECHANICAL DRAWINGS.
5. HOOD BELOW HUNG FROM ROOF TRUSSES. ATTACH PER MANUFACTURER SPECIFICATIONS. SEE HOOD MANUFACTURER SPECIFICATIONS FOR NUMBER OF ROD LOCATIONS (4 MINIMUM).
6. CONTRACTOR SHALL LOCATE SUPPLY AND RETURN DUCT PENETRATIONS AWAY FROM TRUSSES AND BRIDGING TO REMAIN.
7. PROVIDE (2)-2x4 (LSV) BLOCKING BETWEEN TRUSSES AT PERIMETER OF RTU CURB AND DECK OPENINGS (TYPICAL).
8. LADDER, SEE ARCHITECTURAL DRAWINGS FOR LOCATION. REDUCE PARAPET HEIGHT PER ARCHITECTURAL DRAWINGS AND PROVIDE DOUBLE STUDS FOR ATTACHMENT (MINIMUM). COORDINATE WITH LADDER MANUFACTURER.
9. PROVIDE 2x4 DIAGONAL BOTTOM CHORD TRUSS BRACING. SEE TYPICAL OVERHANG AND TRUSS MANUFACTURER BRACING DETAIL ON SHEET S400 FOR ADDITIONAL INFORMATION.
10. PROVIDE 2x4 DIAGONAL BRACING BETWEEN TOP AND BOTTOM TRUSS CHORDS. SEE TYPICAL OVERHANG AND TRUSS MANUFACTURER BRACING DETAIL ON SHEET S400 FOR ADDITIONAL INFORMATION.
11. PROVIDE GIRDER TRUSS ON EACH END OF RTU CURB. TRUSS MANUFACTURER SHALL COORDINATE WITH MECHANICAL DRAWINGS.
12. PROVIDE FRAMING BETWEEN TRUSS TOP CHORDS AS SHOWN ON PLAN WHERE TRUSS SPACING EXCEEDS 2'-0". COORDINATE TRUSS SPACING WITH MECHANICAL UNIT PROVIDER AND LOCATION WITH MECHANICAL DRAWINGS.
13. PREFINISHED METAL CANOPY BELOW. COORDINATE ATTACHMENT TO HSS6x5 BEAM WITH CANOPY MANUFACTURER. ALIGN HSS6x5 BEAM WITH CENTERLINE OF CANOPY CONNECTION. COORDINATE BEAM ELEVATION WITH ARCHITECTURAL DRAWINGS AND CANOPY MANUFACTURER REQUIREMENTS. CANOPIES AND CANOPY CONNECTIONS TO THE STRUCTURE ARE A DEFERRED SUBMITTAL BY SUPPLIER.
14. DRAG TRUSS SHOULD BE DESIGNED FOR A 14 KIP (STRENGTH LEVEL WIND) DRAG FORCE. FACE OF TRUSS SHALL ALIGN WITH FACE OF SHEARWALL STUDS.
15. PROVIDE L3x3x3/8 (GALVANIZED) LOOSE LINTEL ACROSS DOOR OPENING. PROVIDE A MINIMUM 8" BEARING EACH END.
16. ATTACH TRUSS TOP AND BOTTOM CHORDS WITH SIMPSON SDS25412 SCREWS AT EACH STUD.
17. PROVIDE 2x4 DIAGONAL BRACES FROM 2x6 TOP PLATE TO ROOF TRUSS SPACED AT 18" O/C MAXIMUM. SEE SECTION FOR ADDITIONAL INFORMATION.
18. PROVIDE L6x6x3/8 x 5 1/2" LONG BEAM SEAT WITH 1/4"x6"x6" PLATE EACH SIDE O F BEAM WITH 1/2"ø THRU BOLT AT BEAM ENDS.

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1 08/02/2024	CITY COMMENTS

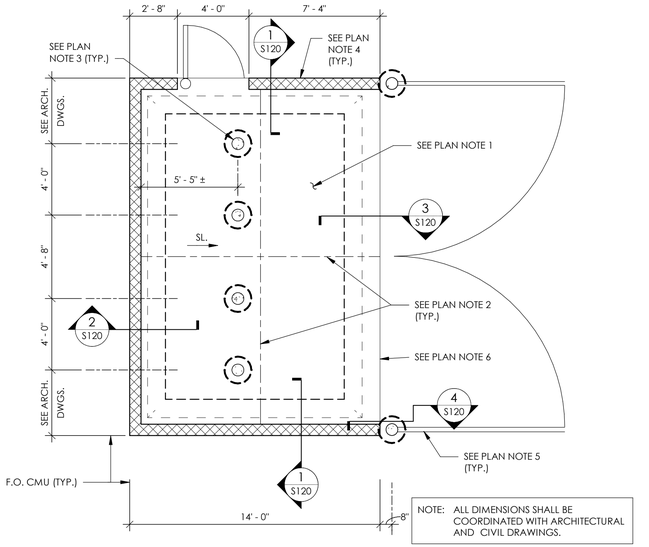
Drawn: WPH
Checked: JHB

Project No.: CMG4909

Contents: ROOF FRAMING PLAN

S110

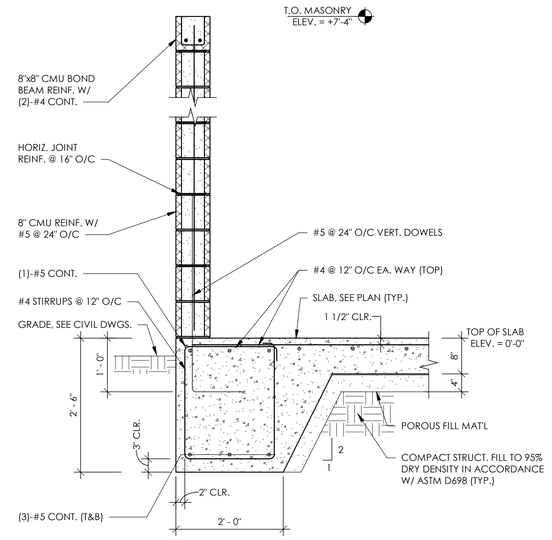
33-170



NOTE: ALL DIMENSIONS SHALL BE COORDINATED WITH ARCHITECTURAL AND CIVIL DRAWINGS.

FOUNDATION PLAN - DUMPSTER ENCLOSURE

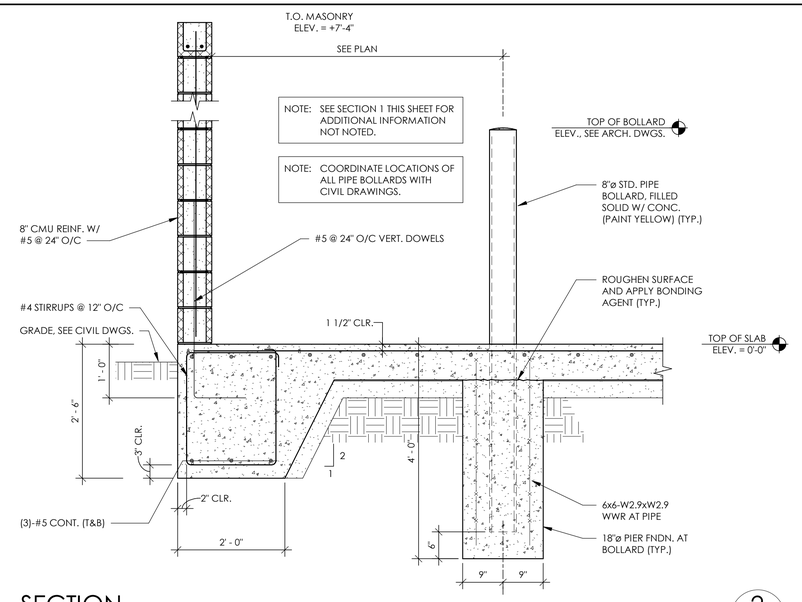
1/4" = 1'-0"



SECTION

3/4" = 1'-0"

1 S120 S120



SECTION

3/4" = 1'-0"

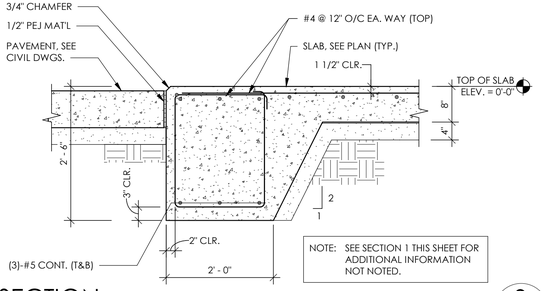
2 S120 S120

FOUNDATION - GENERAL NOTES:

1. COORDINATE PLAN DIMENSIONS WITH ARCHITECTURAL DRAWINGS FOR OPENINGS IN EXTERIOR WALLS NOT NOTED ON PLAN. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT.
2. CONCRETE SLAB-ON-GRADE SHALL BE WET-CURED, SEALED AND TROWELED. CONTRACTOR SHALL PROVIDE UNIFORM SLOPES TO EXTERIOR SLABS AS INDICATED.
3. PROVIDE CONSTRUCTION JOINTS (C.J.) AND SAWED JOINTS (S.J.) PER ACI 318 AND ACI 350 SPECIFICATIONS. SEE TYPICAL SLAB-ON-GRADE DETAILS ON THIS SHEET.
4. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR EXTERIOR CONCRETE SLABS NOT SHOWN FOR CLARITY. PROVIDE ½" PEJ BETWEEN SLAB AND FOUNDATION WALL, UNLESS OTHERWISE NOTED.

FOUNDATION - PLAN NOTES:

1. TRASH ENCLOSURE SLAB CONSTRUCTION SHALL CONSIST OF A 8" THICK CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 BARS SPACED AT 12" ON CENTER EACH WAY (TOP) OVER 4" OF CRUSHED #57 STONE MATERIAL OVER COMPACTED STRUCTURAL FILL. SEE ARCHITECTURAL AND CIVIL DRAWINGS FOR SITE LOCATION OF DUMPSTER ENCLOSURE AND TOP OF SLAB ELEVATION, UNLESS OTHERWISE NOTED.
2. PROVIDE SAWED JOINTS (S.J.) PER ACI 318 AND ACI 350 SPECIFICATIONS. SEE TYPICAL SLAB-ON-GRADE DETAILS ON SHEET S-201.
3. 8" DIAMETER STEEL PIPE BOLLARD FILLED WITH CONCRETE, TYPICAL. SEE STRUCTURAL SECTIONS ON THIS SHEET AND ARCHITECTURAL DRAWINGS FOR LOCATIONS AND ADDITIONAL INFORMATION.
4. 8" CMU WALL REINFORCED WITH #5 BARS SPACED AT 24" ON CENTER AND #5 DOWELS SPACED AT 24" ON CENTER, TYPICAL. PROVIDE 8"x8" CMU BOND BEAM CONTINUOUS ALONG TOP OF ENCLOSURE REINFORCED WITH (2)-#4 BARS (TOP OF MASONRY ELEVATION = +7'-4").
5. DUMPSTER ENCLOSURE GATES WITH GALVANIZED STEEL GATE POST FILLED WITH CONCRETE, SEE MANUFACTURER AND ARCHITECTURAL DRAWINGS.
6. 2'-0" WIDE x 2'-6" DEEP CONCRETE TURNDOWN SLAB EDGE FOUNDATION REINFORCED WITH (3)-#5 CONTINUOUS (TOP AND BOTTOM) AND #4 STIRRUPS SPACED AROUND 12" ON CENTER. SEE SECTIONS THIS SHEET FOR ADDITIONAL INFORMATION.

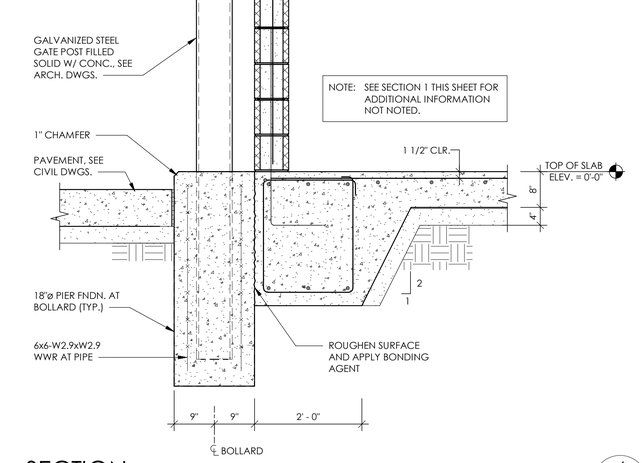


NOTE: SEE SECTION 1 THIS SHEET FOR ADDITIONAL INFORMATION NOT NOTED.

SECTION

3/4" = 1'-0"

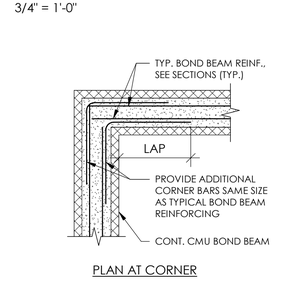
3 S120 S120



SECTION

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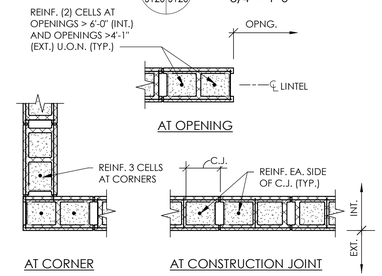
4 S120 S120



PLAN AT CORNER

TYPICAL BOND BEAM REINFORCING DETAILS

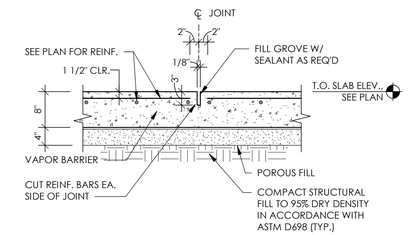
NOT TO SCALE



AT CORNER AT CONSTRUCTION JOINT

TYPICAL MASONRY WALL REINFORCING DETAILS

NOT TO SCALE



TYPICAL SAWED JOINT DETAIL

NOT TO SCALE

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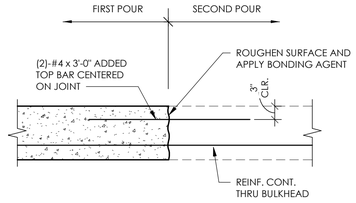
Project No. CMG4909

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DUMPSTER ENCLOSURE PLAN

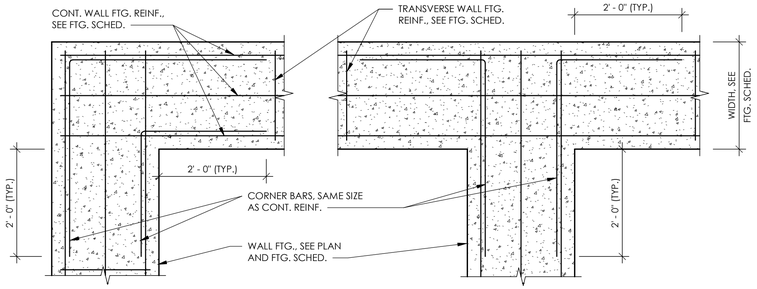
S120

23170



TYPICAL CONTINUOUS WALL FOOTING CONSTRUCTION DETAIL

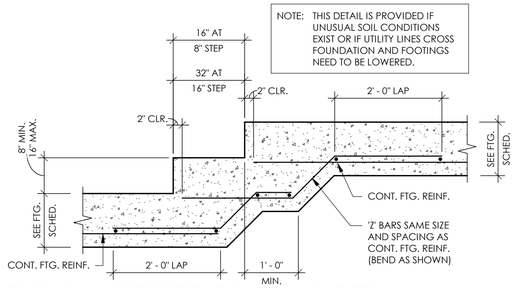
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CORNER INTERSECTION

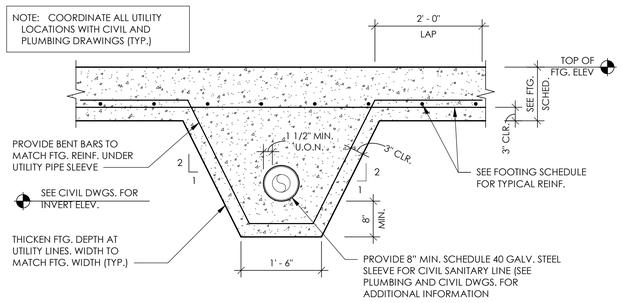
TYPICAL CONTINUOUS WALL FOOTING REINFORCING DETAILS

NOT TO SCALE



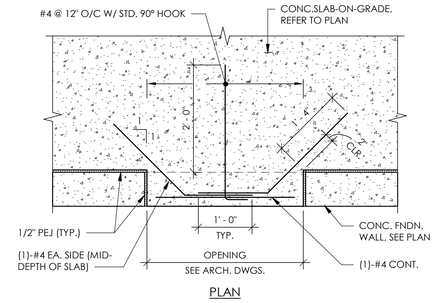
TYPICAL STEPPED FOOTING DETAIL

NOT TO SCALE



TYPICAL THICKENED FOOTING AT UTILITY LINE CROSSING DETAIL

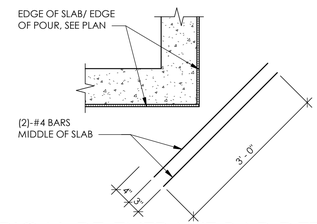
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PLAN

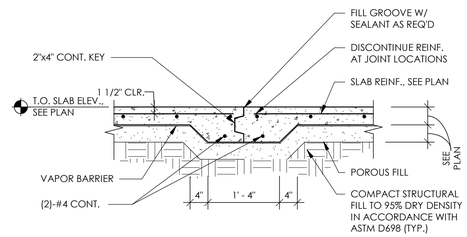
TYPICAL EXTERIOR DOOR REINFORCING DETAIL

NOT TO SCALE

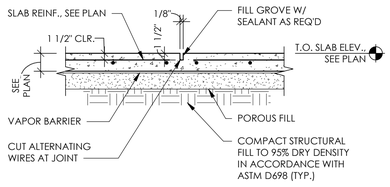


TYPICAL RE-ENTRANT BAR DETAIL

NOT TO SCALE



CONSTRUCTION JOINT (C.J.)

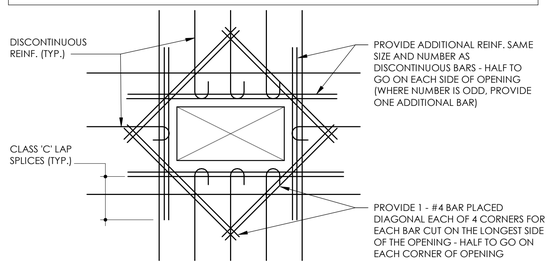


SAWED JOINT (S.J.)

TYPICAL SLAB ON GRADE DETAILS

NOT TO SCALE

NOTE: ALL OPENINGS IN THE STRUCTURAL CONCRETE WALL REQUIRE ADDITIONAL REINFORCING EXCEPT WHERE THE OPENING SIZE OR LOCATION IS SUCH THAT THE REINFORCING STEEL IS NOT INTERRUPTED. CONDUITS, SMALL PIPES AND OTHER SMALL SLEEVES THAT DO NOT REQUIRE PRECISE LOCATION SHALL BE SHIFTED SLIGHTLY TO CLEAR REINFORCING. WHERE RISER DUCTS OR OTHER SLEEVES ARE LARGER THAN THE SPACING BETWEEN BARS AND ARE SUCH THAT THE REINFORCING CANNOT BE SHIFTED TO CLEAR, THEN THE 'CONCRETE WALL OPENING DETAIL' SHALL APPLY.



TYPICAL CONCRETE WALL OPENING DETAIL

NOT TO SCALE

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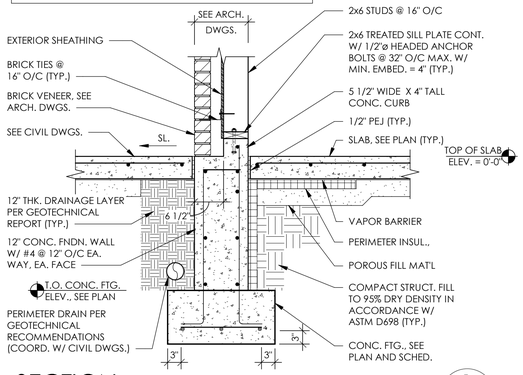
Project No.
CMG4909

Contents:
FOUNDATION TYPICAL DETAILS

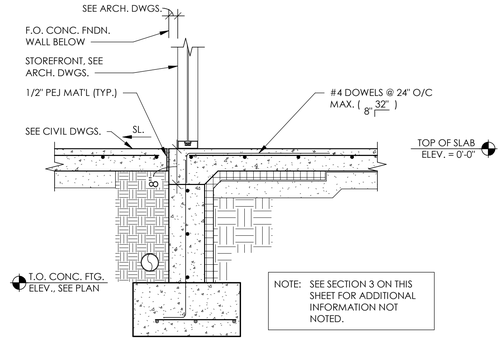
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23-170

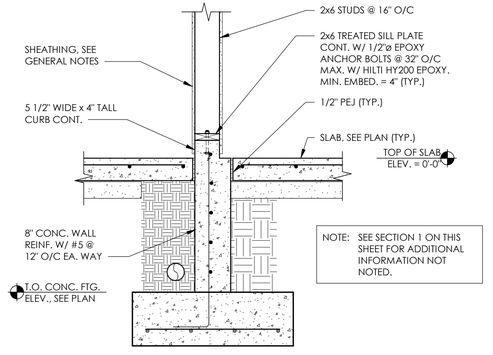
NOTE: COAT EXTERIOR WALL WITH 2 COATS OF SPRAY ON WATERPROOFING. CONTRACTOR SHALL PRIME ALL CONCRETE WALLS AND ALLOW WATERPROOFING TO CURE BETWEEN COATS. CONTRACTOR SHALL SUBMIT WATERPROOFING MATERIAL FOR ARCHITECT APPROVAL PRIOR TO APPLICATIONS.



SECTION 1
3/4" = 1'-0"
S100 S301



SECTION 2
3/4" = 1'-0"
S100 S301

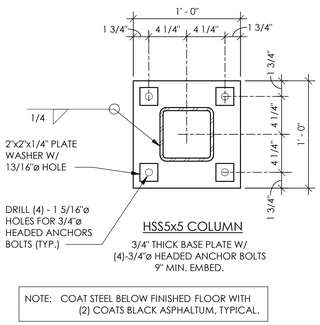


SECTION 3
3/4" = 1'-0"
S100 S301

SECTION 4
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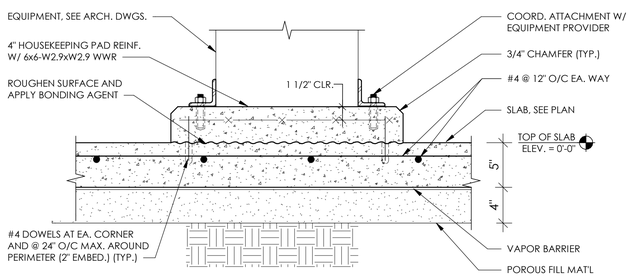
SECTION 5
3/4" = 1'-0"
S100 S301

SECTION 6
3/4" = 1'-0"
S100 S301



NOTE: COAT STEEL BELOW FINISHED FLOOR WITH (2) COATS BLACK ASPHALTUM, TYPICAL.

TYPICAL BASE PLATE DETAILS
NOT TO SCALE



TYPICAL FOUNDATION SECTION THRU MAINTENENCE PAD
NOT TO SCALE

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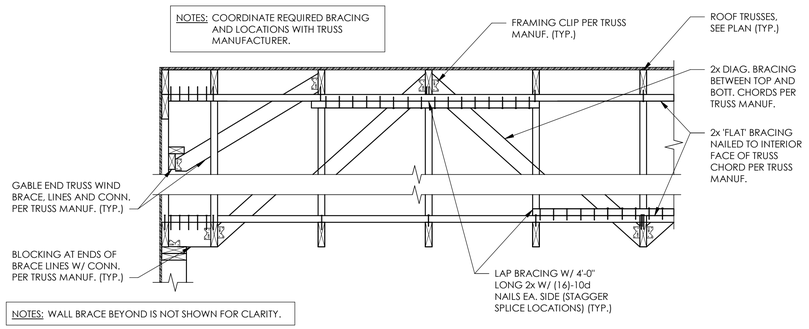
Drawn: WPH
Checked: JHB

Project No.
CMG4909

Contents:
FOUNDATION SECTIONS

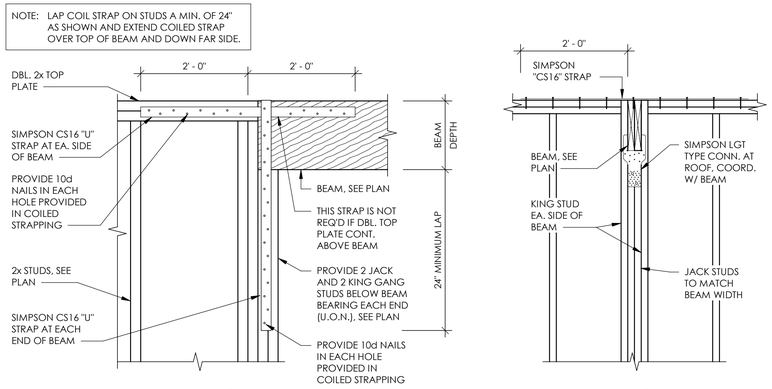
S301

33170



TYPICAL DIAGONAL TRUSS BRACING DETAIL

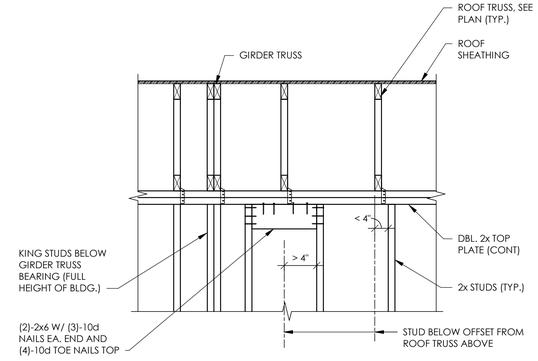
NOT TO SCALE



AT DROPPED BEAM CONDITIONS

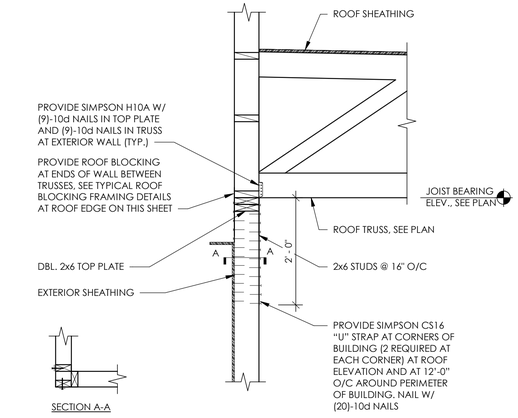
TYPICAL COILED "U" STRAP DETAILS AT ROOF BEAMS

NOT TO SCALE



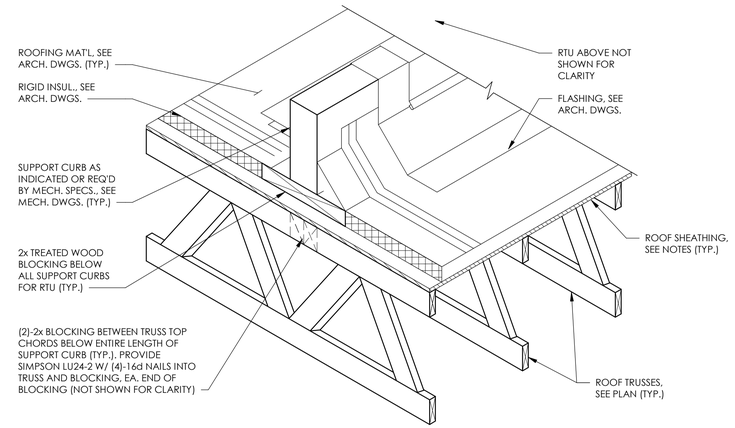
TYPICAL TRUSS BEARING OFFSET FROM STUDS

NOT TO SCALE



TYPICAL CORNER STRAPPING DETAIL AT ROOF

NOT TO SCALE



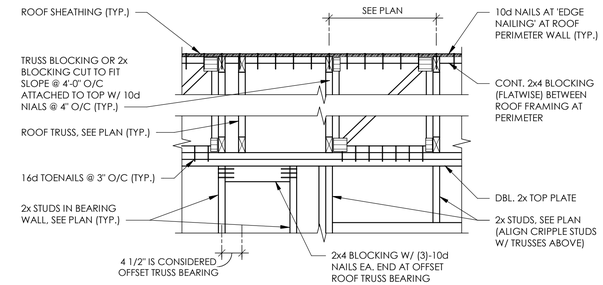
NOTE: WATERPROOF CURB BASE CONNECTIONS, SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.

NOTE: 5/8"ø BOLT CURB IN EACH CORNER OF RTU CURB WITH LAG BOLTS WITH A MINIMUM EMBEDMENT OF 4" OR AS REQUIRED BY MECHANICAL MANUFACTURER.

TYPICAL WOOD BLOCKING DETAIL AT ROOF TOP UNIT SUPPORT CURB

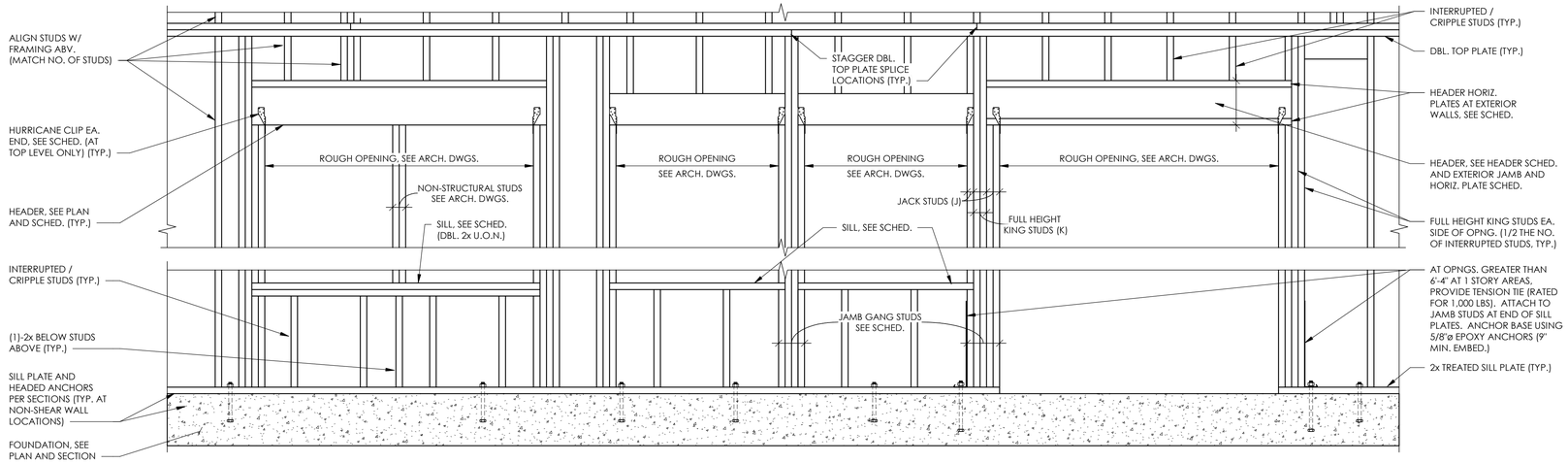
NOT TO SCALE

NOTES:
1. CONTINUOUS BLOCKING OR BLOCKING PANELS PER TRUSS MANUFACTURER SHALL BE PROVIDED AT ALL BEARING WALLS WHERE NEEDED FOR STABILITY.
2. SHEAR WALL BLOCKING PANELS SHALL BE DESIGNED AND CONSTRUCTED BY THE TRUSS MANUFACTURER TO BE CAPABLE OF WITHSTANDING A 325 PLF SHEAR FORCE (1.0W) AT THE ROOF LEVELS, UNLESS OTHERWISE NOTED. PROVIDE DOUBLE PANELS AT CHORD LOCATIONS.
3. BLOCKING SHALL BE EQUALLY SPACED ALONG THE LENGTH OF THE WALLS, NOT TO EXCEED THE SPACING NOTED.



TYPICAL BLOCKING DETAIL

NOT TO SCALE



TYPICAL COILED "U" STRAP DETAILS AT ROOF BEAMS

NOT TO SCALE

EXTERIOR JAMB AND HORIZONTAL PLATE SCHEDULE

ROUGH OPENING SIZE	HORIZ. SILL BELOW OPENING	HORIZ. PLATES AT HEADER	TOP LEVEL UPLIFT CLIP UPLIFT RATING	JAMB JACK AND KING STUDS (J & K)			
				2x6 WALLS		2x4 WALLS	
				AT ENDS	AT MIDDLE	AT ENDS	AT MIDDLE
0'-0" TO 3'-4"	(1)-2x6	NONE	800 LBS	2K & J	J & 2K & J	2K & J	J & 2K & J
3'-5" TO 6'-4"	(1)-2x6	NONE	1,300 LBS	2K & J	J & 3K & J	3K & 2J	J & 3K & J
6'-5" TO 9'-4"	(2)-2x6	(1)-2x TOP	1,900 LBS	3K & J	J & 4K & J	4K & 2J	J & 5K & J
9'-5" TO 12'-4"	(3)-2x6	(1)-2x TOP	2,500 LBS	3K & 2J	2J & 4K & 2J	5K & 2J	2J & 5K & 2J

NOTE: FOR INTERIOR BEARING WALLS (UNLESS OTHERWISE NOTED):
PROVIDE (1)-2x SILL AT ALL OPENINGS
PROVIDE K & J JAMB FOR OPENINGS 3'-0" TO 6'-4" WIDE
PROVIDE K & 2J JAMB FOR OPENINGS 6'-5" TO 10'-0" WIDE.
SEE HEADER SCHEDULE FOR HEADER

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8968 E. 46th AVE
DENVER CO 80238

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03/21/2024 PERMIT SET

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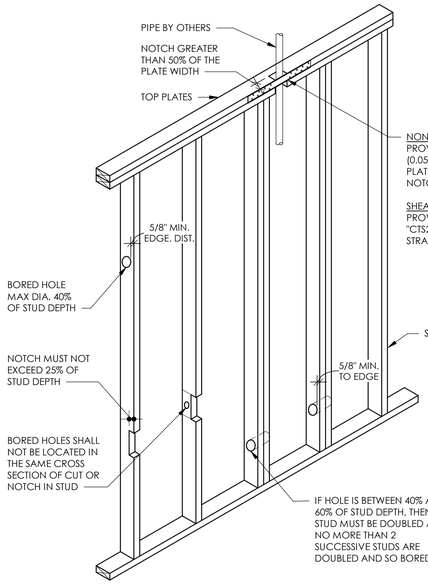
Drawn: WPH
Checked: JHB

Project No.
CMG4909

Contents:
TYPICAL FRAMING DETAILS

S400

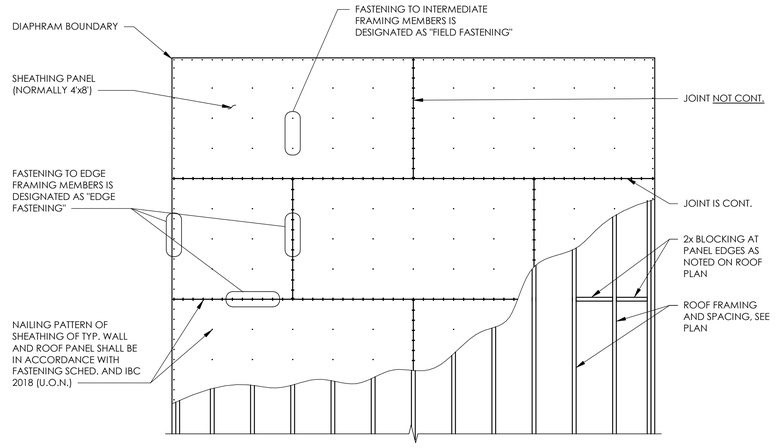
23170



STUD SIZE	STUD DEPTH PERCENTAGE	MAX. HOLE DIA. OR NOTCH DEPTH
2x4	25%	7/8"
	40%	1 3/8"
	60%	2"
2x6	25%	1 3/8"
	40%	2 1/8"
	60%	3 1/4"

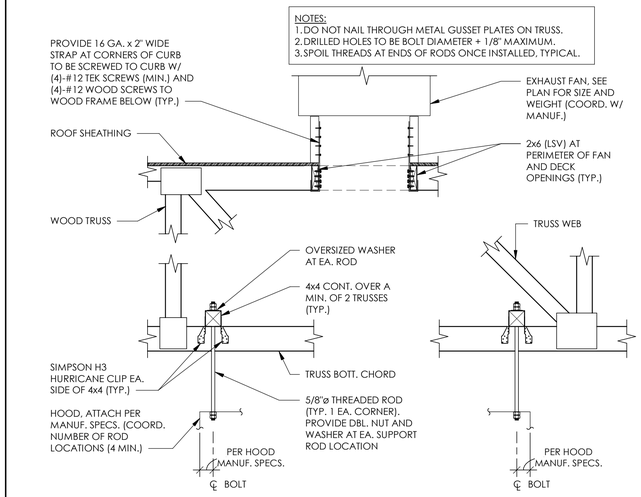
TYPICAL NOTCHING AND BORED HOLE LIMITATIONS FOR EXTERIOR WALLS AND BEARING WALLS DETAIL

NOT TO SCALE



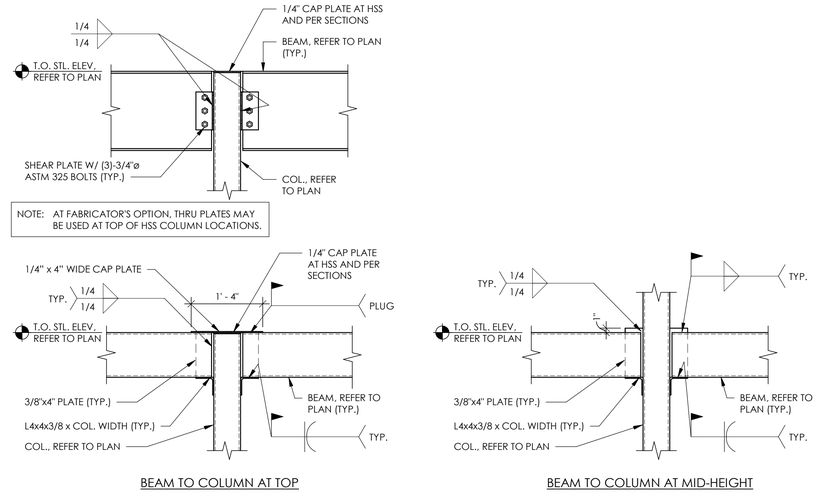
TYPICAL ROOF SHEATHING NAILING PATTERN DETAIL

NOT TO SCALE



TYPICAL HOOD AND EXHAUST FAN SUPPORT DETAIL

NOT TO SCALE



TYPICAL NON-MOMENT CONNECTION DETAILS

NOT TO SCALE

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TYPICAL FRAMING DETAILS

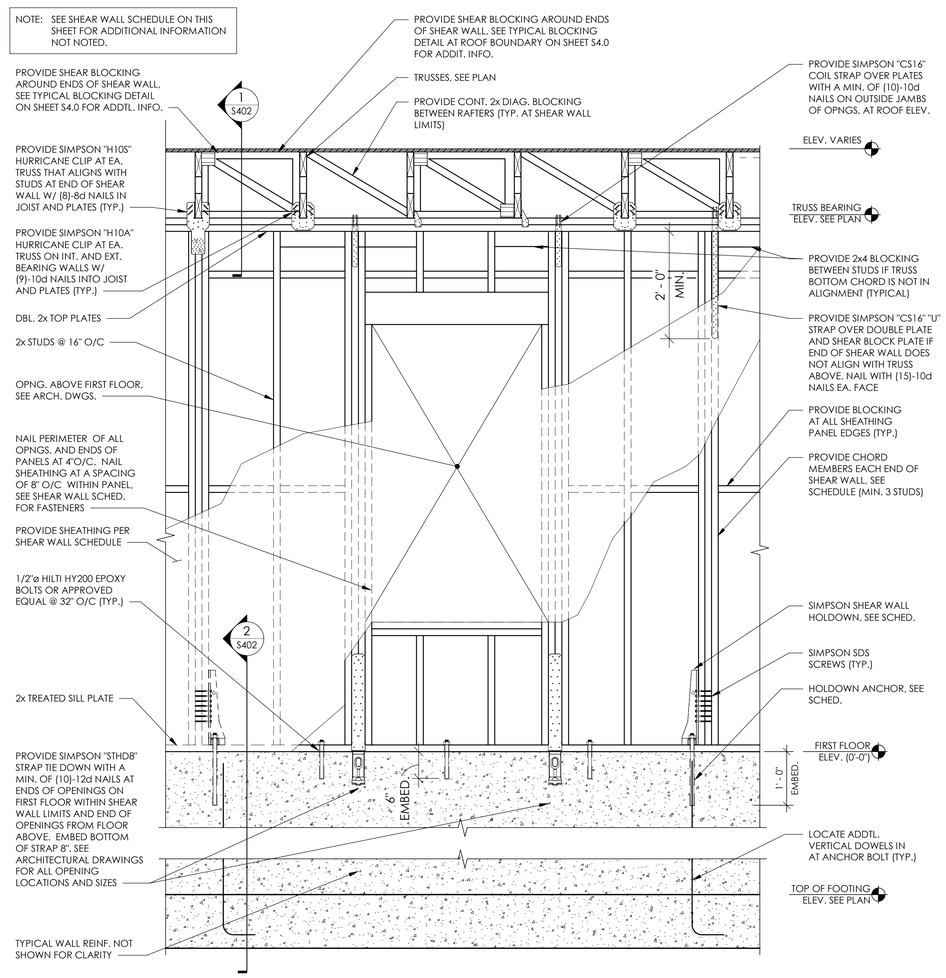
S401

23.170

SHEAR WALL SCHEDULE

MARK	CHORD MEMBER	SHEATHING	NAIL SIZE	NAILING PATTERN	FOUNDATION CHORD HOLDOWN	ROOF TO SHEAR WALL CHORD HOLDOWN
SW-1	(3)-2x6	15/32" A.P.A. RATED SHEATHING ON EXTERIOR FACE OF STUDS	10d NAILS 2 1/2" x 0.134"ø (GALVANIZED)	4" O/C EDGE NAILING AND 12" O/C FIELD NAILING	SIMPSON HDU14-SDS 2.5 W/ 1"ø ANCHOR BOLT AND (36) 1/4"ø x2 1/2" LONG SDS SCREWS IN STUDS. MIN. EMBED. = 12"	(1) SIMPSON "H10S" CLIP AT ALIGNED ROOF TRUSS W/ MIN. (8)-8d NAILS. SIMPSON "H10A" AND (1) "CS16" STRAP AT NON-ALIGNED ROOF TRUSSES W/ MIN. 24" DOWN EACH SIDE OF STUD WALL (INT. AND EXT. FACE)
SW-2	(3)-2x6	15/32" A.P.A. RATED SHEATHING ON EXTERIOR FACE OF STUDS (CONTINUE SHEATHING FOR FULL LENGTH OF WALL)	8d NAILS 2 1/2" x 0.134"ø	6" O/C EDGE NAILING AND 12" O/C FIELD NAILING	SIMPSON HDU5-SDS 2.5 W/ .5/8"ø ANCHOR BOLT AND (14) 1/4"ø x2 1/2" LONG SDS SCREWS IN STUDS. MIN. EMBED. = 12"	(1) SIMPSON "H10S" CLIP AT ALIGNED ROOF TRUSS W/ MIN. (8)-8d NAILS. SIMPSON "H10A" AND (1) "CS16" STRAP AT NON-ALIGNED ROOF TRUSSES W/ MIN. 24" DOWN EACH SIDE OF STUD WALL (INT. AND EXT. FACE)

NOTE: SEE SHEAR WALL SCHEDULE ON THIS SHEET FOR ADDITIONAL INFORMATION NOT NOTED.

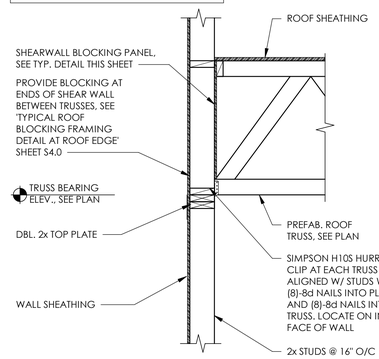


NOTE: SEE PLAN FOR SHEAR WALL LOCATIONS AND LENGTHS. SHEAR WALLS ARE DENOTED THUS (SW-"X")

TYPICAL SHEAR WALL ELEVATION (SW-1 AND SW-2)

NOT TO SCALE

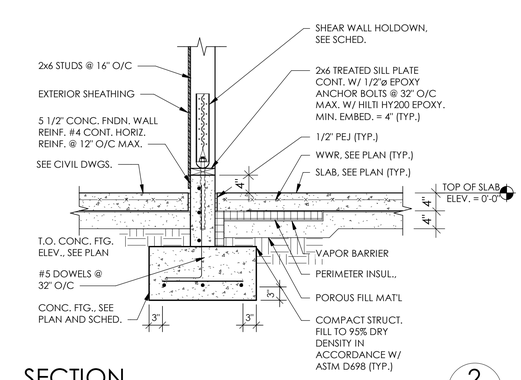
NOTE: SIMPSON H10A HURRICANE CLIP AT EACH TRUSS NOT ALIGNED WITH STUDS W/ (9)-8d NAILS INTO PLATES AND TRUSS.



SECTION 1

3/4" = 1'-0"

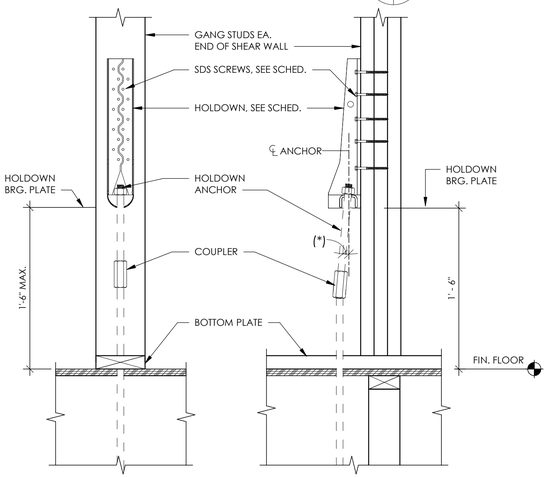
S402 S402



SECTION 2

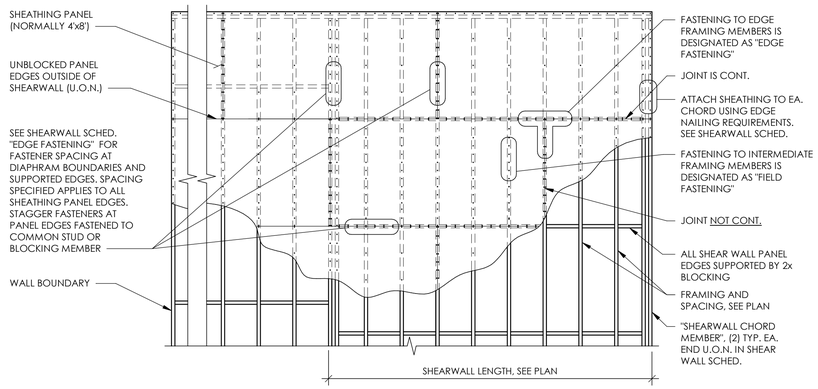
3/4" = 1'-0"

S402 S402



TYPICAL HOLDOWN RAISED OFF BOTTOM PLATE DETAIL

NOT TO SCALE



TYPICAL SHEARWALL / WALL ELEVATION SHEATHING NAILING PATTERN DETAIL

NOT TO SCALE

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1	08/02/2024	CITY COMMENTS

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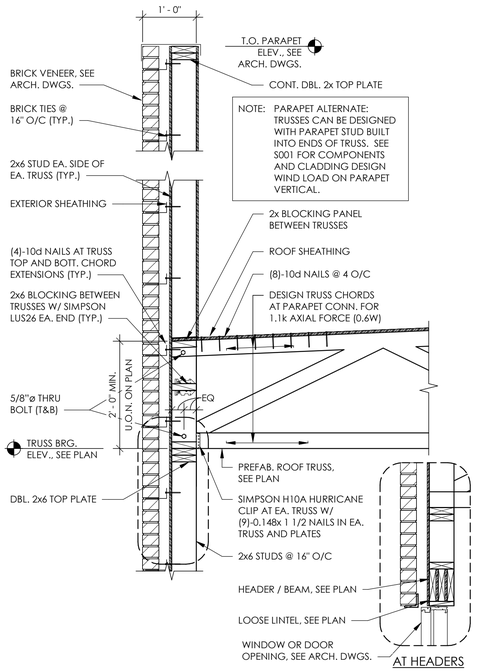
Project No.: CMG4909

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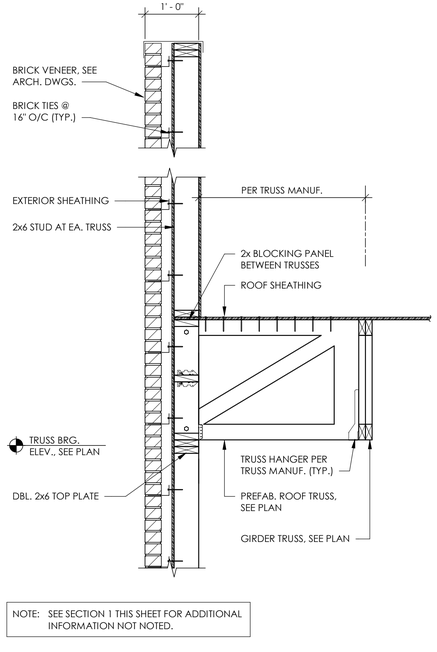
SHEARWALL ELEV., SCHED. AND DETAILS

S402

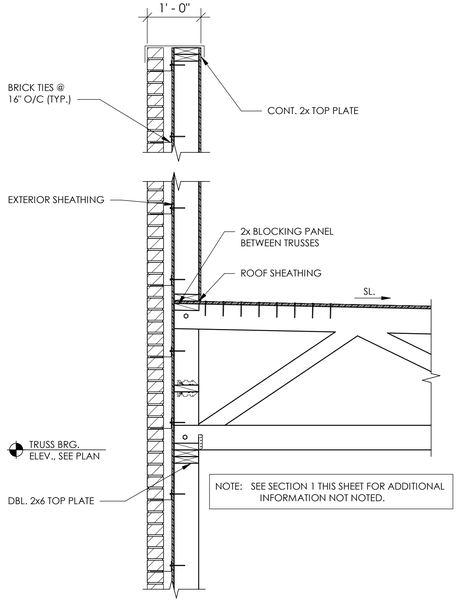
23.170



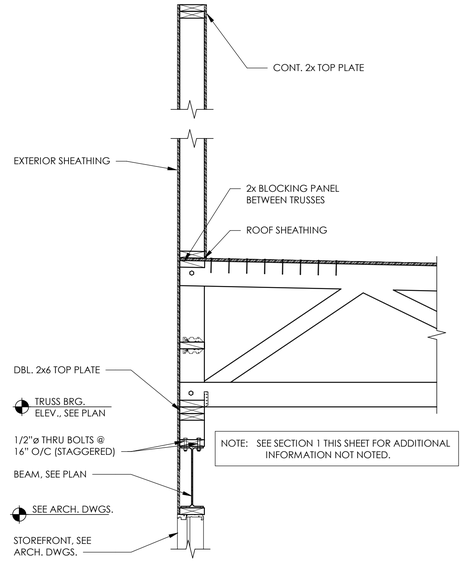
SECTION 1 / S110 S501
3/4" = 1'-0"



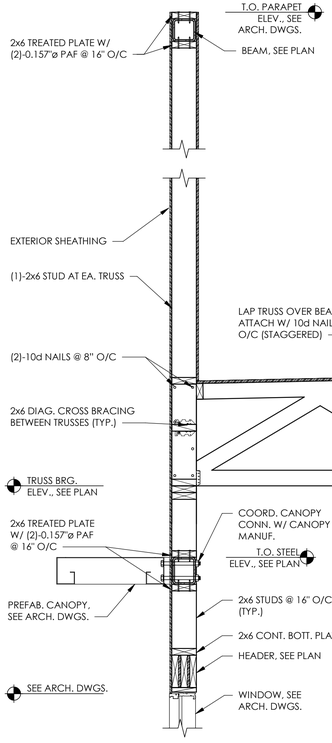
SECTION 2 / S110 S501
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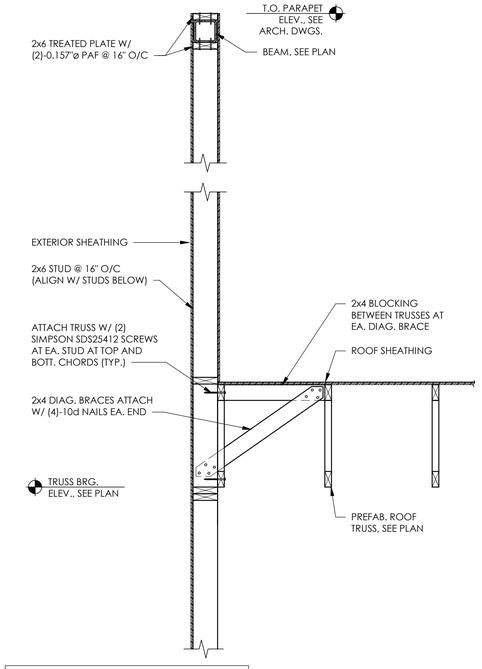
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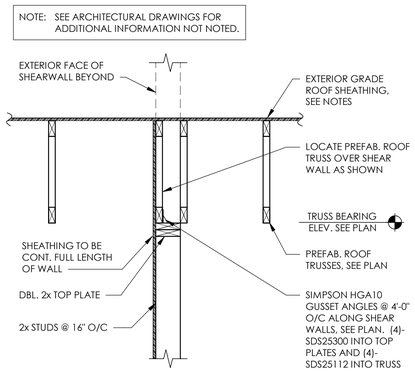
SECTION 4 / S110 S501
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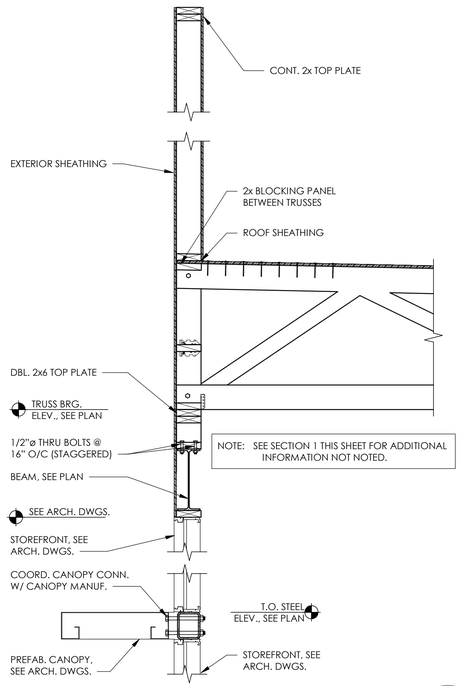
SECTION 5 / S110 S501
3/4" = 1'-0"



SECTION 6 / S110 S501
3/4" = 1'-0"



SECTION 7 / S110 S501
3/4" = 1'-0"



SECTION 8 / S110 S501
3/4" = 1'-0"

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CMG4909

Contents:
FRAMING SECTIONS

S501

23-170

COMMISIONING PLAN - 2022 DENVER ENERGY CODE

THE FOLLOWING SYSTEMS SHALL BE COMMISSIONED BY A COMMISINING AGENT HIRED BY MECHANICAL CONTRACTOR TO THE STANDARDS STATED BELOW AND PER IECC 2018:

- RTU-1
- RTU-2
- EF-1
- EF-2
- CU-1
- CU-2
- CU-3

1. "SYSTEM ADJUSTING AND BALANCING". HVAC SYSTEMS SHALL BE BALANCED IN ACCORDANCE WITH GENERALLY ACCEPTED ENGINEERING STANDARDS. AIR FLOW RATE SHALL BE MEASURED AND ADJUSTED TO DELIVER FINAL FLOW RATES WITHIN THE TOLERANCES PROVIDED IN THE PRODUCT SPECIFICATIONS. TEST AND BALANCE ACTIVITIES SHALL INCLUDE AIR SYSTEM BALANCING.

   1.1 "AIR SYSTEMS BALANCING". EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICE SHALL BE EQUIPPED WITH MEANS FOR AIR BALANCING IN ACCORDANCE WITH THE REQUIREMENTS OF CHAPTER 6 OF THE INTERNATIONAL MECHANICAL CODE. DISCHARGE DAMPERS ARE PROHIBITED ON CONSTANT VOLUME FANS AND VARIABLE VOLUME FANS WITH MOTORS 10 HP (18.6 KW) AND LARGER. AIR SYSTEMS SHALL BE BALANCED IN A MANNER TO FIRST MINIMIZE THROTTLING LOSSES, THEN, FOR FANS WITH SYSTEM POWER OF GREATER THAN 1 HP (0.74 KW), FAN SPEED SHALL BE ADJUSTED TO MEET DESIGN FLOW CONDITIONS.

2. "FUNCTIONAL PERFORMANCE TESTING". SHALL BE CONDUCTED.

   2.1 "EQUIPMENT". EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED. TESTING SHALL INCLUDE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD AND THE FOLLOWING EMERGENCY CONDITIONS:

   A. ALL MODES AS DESCRIBED IN THE SEQUENCE OF OPERATION;
   B. REDUNDANT OR AUTOMATIC BACK-UP MODE;
   C. PERFORMANCE OF ALARMS; AND
   D. MODE OF OPERATION UPON A LOSS OF POWER AND RESTORATION OF POWER.

   2.2 "CONTROLS". HVAC CONTROL SYSTEMS SHALL BE TESTED TO DOCUMENT THAT CONTROL DEVICES, COMPONENTS, EQUIPMENT, AND SYSTEMS ARE CALIBRATED, ADJUSTED AND OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS. SEQUENCES OF OPERATION SHALL BE FUNCTIONALLY TESTED TO DOCUMENT THEY OPERATE IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS.

   2.3 "ECONOMIZERS". AIR ECONOMIZERS SHALL UNDERGO A FUNCTIONAL TEST TO DETERMINE THAT THEY OPERATE IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

3. "PRELIMINARY COMMISSIONING REPORT". A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT" AND SHALL IDENTIFY:

   A. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
   B. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS.
   C. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.

   3.1 "ACCEPTANCE OF REPORT". BUILDINGS, OR PORTIONS THEREOF, SHALL NOT PASS THE FINAL MECHANICAL INSPECTION UNTIL SUCH TIME AS THE CODE OFFICIAL HAS RECEIVED A LETTER OF TRANSMITTAL FROM THE BUILDING OWNER ACKNOWLEDGING THAT THE BUILDING OWNER HAS RECEIVED THE PRELIMINARY COMMISSIONING REPORT.

   3.2 "COPY OF REPORT". THE CODE OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A COPY OF THE PRELIMINARY COMMISSIONING REPORT BE MADE AVAILABLE FOR REVIEW BY THE CODE OFFICIAL.

4. "DOCUMENTATION REQUIREMENTS". THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

   4.1 "DRAWINGS". CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT.
   4.2 "MANUALS". AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE ALL OF THE FOLLOWING:

   A. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
   B. MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
   C. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
   D. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
   E. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

   4.3 "SYSTEM BALANCING REPORT". A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASUREMENTS COMPLETED IN ACCORDANCE WITH DENVER ENERGY CODE.
   4.4 "FINAL COMMISSIONING REPORT". A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS "FINAL COMMISSIONING".

REPORT SHALL BE DELIVERED TO THE BUILDING OWNER AND SHALL INCLUDE:

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data and Shop Drawings.
- B. Comply with ASHRAE 15.
- C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
- D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.

PART 2 - PRODUCTS

2.1 PACKAGED UNITS, 5 TO 20 TONS
- A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
  1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
  2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
  3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
  4. Condenser Fans: Direct drive propeller.
  5. Refrigerant Coils: Aluminum fins and copper coil.
  6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
  7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
  8. Economizer controls (Comparative Enthalpy, 100% capacity).
  9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
  10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
  11. Roof curb.
  12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
  13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.

PART 3 - EXECUTION

3.1 INSTALLATION
- A. Install units level and plumb and firmly anchored.
- B. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
- C. Connect units to wiring systems and to ground.

END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS
- A. Submittals: Product Data for fire and smoke dampers.
- B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
- C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
- D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
- E. Comply with UL 181 and UL 181A for ducts and closures.
- F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).

PART 2 - PRODUCTS

2.1 DUCTS
- A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
  1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
  2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
- B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
- C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
  1. Adhesive: ASTM C 916, Type I.
  2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
- D. Joint and Seam Tape: Comply with UL 181A.
- E. Joint and Seam Sealant: Comply with UL 181A.
- F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.

2.2 ACCESSORIES
- A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
- B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
- C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
- D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.

PART 3 - EXECUTION

3.1 INSTALLATION
- A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
- B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
- C. Avoid passing through electrical equipment spaces and enclosures.
- D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
- E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
- F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
- G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
- H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
- I. Install fusible links in fire dampers.
- J. Provide saddle taps at tees for exposed ductwork.

3.2 TESTING, ADJUSTING, AND BALANCING
- A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
- B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
- C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
- D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.

END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS
- A. Submittals: None.

PART 2 - PRODUCTS

2.1 OUTLETS AND INLETS
- A. All air terminal devices:
  1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
  2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
  3. Material: As scheduled.
  4. Finish: As scheduled.
  5. Mounting: As scheduled.

PART 3 - EXECUTION

3.1 INSTALLATION
- A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
- B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.

END OF SECTION 15855

ENERGY CODE NOTE

1. Heating, ventilating, and air conditioning design loads calculated per Section C403.1.1.
2. Ventilation, either natural or mechanical, provided in accordance with Chapter 4 of the Denver Mechanical Cod per Section C403.2.2.
3. The output capacity of heating and cooling equipment not greater than that of the smallest available equipment size that exceeds the loads calculated in accordance with Section C403.1.1.
4. Each zone provided with thermostatic setback controls that are controlled by programmable control system per C403.4.2.
5. Ducts, plenums, piping and other elements that are part of an HVAC system shall be constructed and insulated in accordance with Sections C403.12.1 through C403.12.3.1. of the Denver Mechanical Code.

HVAC GENERAL NOTES

A GENERAL NOTES APPLY TO HVAC SHEETS.

B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.

C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.

K THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L PROVIDE LABELING CALLED FOR IN THE HVAC DRAWINGS USING ENGRAVED PHENOLIC PLATES.

M PROVIDE P3000 12 GA. UNISTRUT WITH PG FINISH FOR DUCT SUPPORTS AND OTHER UNISTRUT IN AREAS EXPOSED TO VIEW. SLOTTED UNISTRUT AND OTHER UNISTRUT WITH HOLES IS NOT ACCEPTABLE.

HVAC MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GYP	GYPSUM BOARD
NTS	NOT TO SCALE
O/H	OVERHEAD
OBD	OPPOSED BLADE DAMPER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
W/	WITH
WIC	WALK-IN COOLER
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

- CEILING DIFFUSER
- CEILING-MOUNTED RETURN OR EXHAUST REGISTER
- SUPPLY REGISTER
- RETURN GRILLE
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION (W/H)
- DUCT-MOUNTED SMOKE DETECTOR (S)
- MOTOR-OPERATED DAMPER (M)
- MANUAL VOLUME DAMPER
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- GRIDPOINT THERMOSTAT (T)
- GRIDPOINT ZONE SENSOR MODULE (S)
- GRIDPOINT SUPPLY PROBE (S)
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING (#)
- CONNECT TO EXISTING
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION (XX-#)
- AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET (A/V)
- GRILL, REGISTER, OR DIFFUSER TAG: TAG, NECK SIZE, AIRFLOW [CFM] (12"Ø, CD1, 550)

Consultant:

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COLORADO REGISTERED PROFESSIONAL ENGINEER
JOSEPH G. THOMAS
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Date: 09/09/2024
Exp. Date: 10/31/2025

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Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

Contents: HVAC SPECIFICATIONS

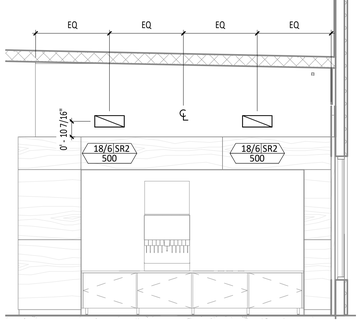
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HVAC PLAN NOTES

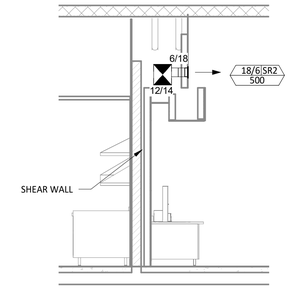
1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2. PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3. PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
4. 24/20 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5. 24/20 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6. 24/20 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 24/20 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. NOT USED
9. 17/10 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 8/6 DUCT UP THROUGH ROOF TO EF-2.
11. NOT USED.
12. NOT USED.
13. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. PROVIDE FAULT DETECTION DIAGNOSTIC SYSTEM THAT COMPLIES WITH ENERGY CODE.
14. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
19. INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20. INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.

HVAC PLAN NOTES

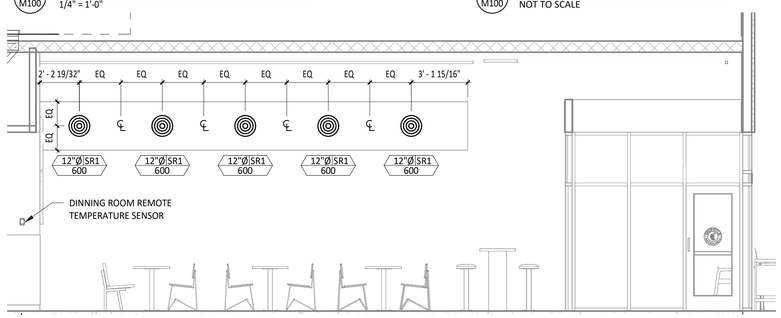
21. INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
22. INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
24. PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
25. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
26. INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
27. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28. ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



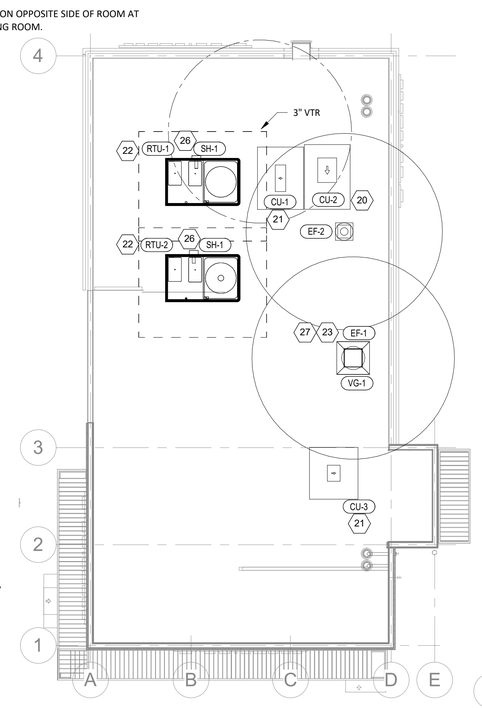
5/M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



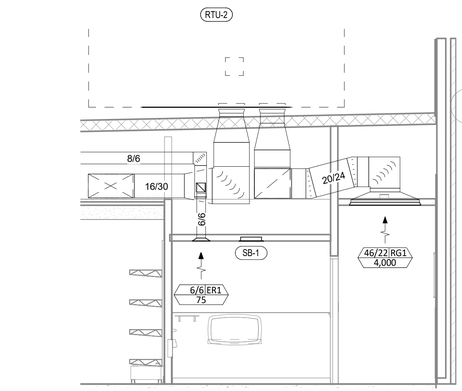
4/M100 **HVAC DINING ROOM SECTION**
NOT TO SCALE



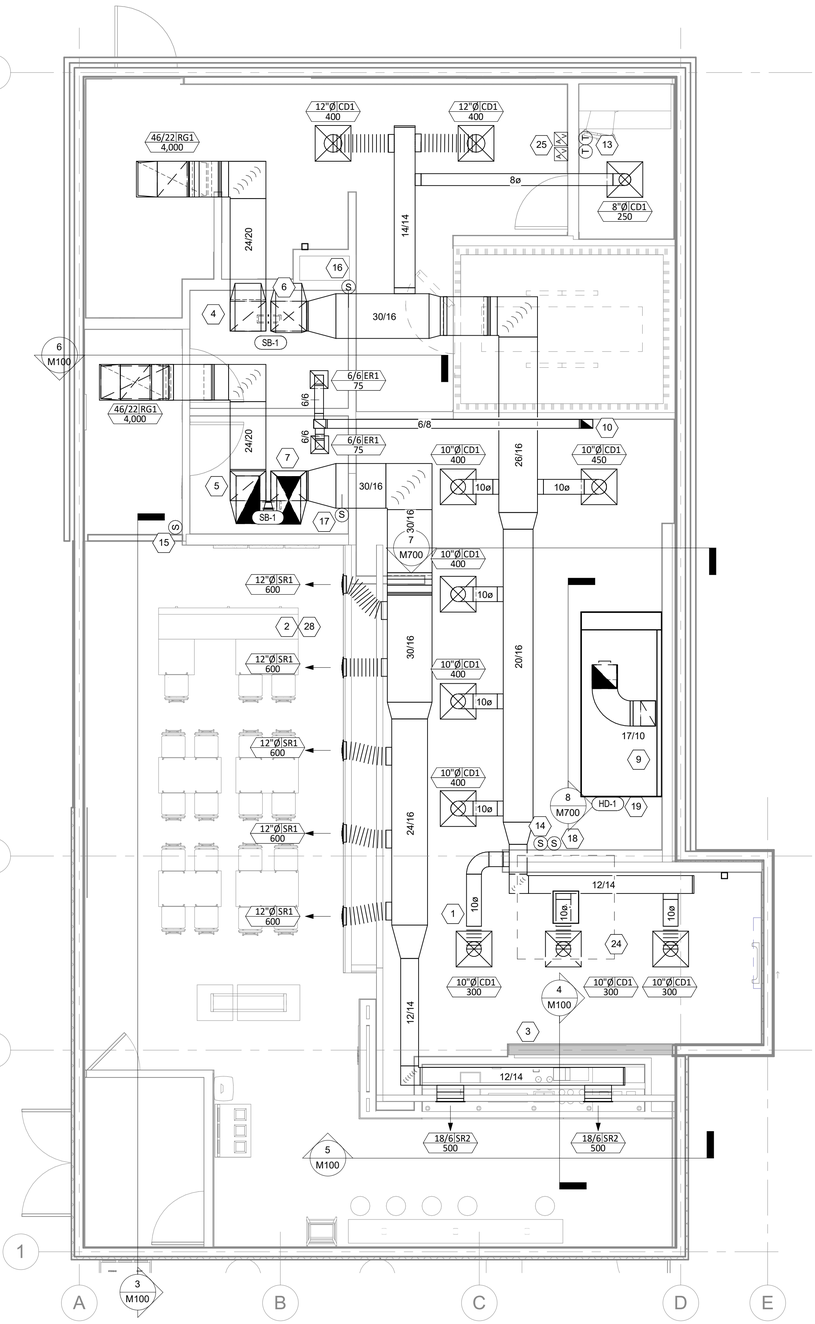
3/M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



2/M100 **HVAC ROOF PLAN**
1/8" = 1'-0"



6/M100 **HVAC KITCHEN ROOM RETURN SECTION**
1/4" = 1'-0"



1/M100 **HVAC FLOOR PLAN**
1/4" = 1'-0"

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COLORADO REGISTERED
JOSEPH G. THOMAS
34886
PROFESSIONAL ENGINEER

Date: 09/09/2024
Exp. Date: 10/31/2025

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Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
HVAC PLAN

M100

VENTILATION SCHEDULE

ROOM NO.	ROOM AREA SF	ROOM NAME	OCCUPANCY CLASSIFICATION	TOILET ROOM # WC+UR	OCC. DENSITY PER/1000 SF	AIRFLOW RATE CFM/ PERSON	AIRFLOW RATE CFM/SF	EXHAUST RATE CFM/SF	EXHAUST RATE (CONT.) CFM/FIXT	EXHAUST RATE (INTERM.) CFM/FIXT	REQUIRED OUTDOOR VENTILATION AIR & NUMBER OF PEOPLE					EXHAUST			SUPPLY		REMARKS
											CODE # OF PERSONS	OA(PER)	OA(SF)	EFFECT. (Ez)	TOTAL OA	REQUIRED (CFM)	ACTUAL (CFM)	SYSTEM	ACTUAL (CFM)	SYSTEM	
100	70.4	MAIN ENTRY	OFFICE - MAIN ENTRY LOBBIES		10	5	0.06	0	0	0	1	5	5	0.8	13	0.0	0	---	0	---	
101	602.0	DINNIG	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	43	322.5	109	0.8	539	0.0	0	---	2400	HP-2	
102	74.0	UTENSIL	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	6	45	14	0.8	74	0.0	0	---	1000	HP-2	
104	104.9	POS	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	8	60	19	0.8	99	0.0	0	---	400	HP-1	
103	65.8	PASSAGE	PUBLIC - CORRIDORS		0	0	0.06	0	0	0	0	0	4	0.8	5	0.0	4000	HP-2	0	---	
105	45.4	ORDERING	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	4	30	9	0.8	49	0.0	0	---	600	HP-2	
106	94.6	SERVING	FOOD & BEV - KITCHEN (COOKING)		20	7.5	0.12	0.7	0	0	2	15	12	0.8	34	66.2	0	---	400	HP-1	
107	309.6	COOCING	FOOD & BEV - KITCHEN (COOKING)		20	7.5	0.12	0.7	0	0	7	52.5	38	0.8	113	216.7	1900	EF-1	1250	HP-1	
108	313.9	KITCHEN	FOOD & BEV - KITCHEN (COOKING)		20	7.5	0.12	0.7	0	0	7	52.5	38	0.8	113	219.7	4000	HP-1	800	HP-1	
109	44.8	OFFICE	OFFICE - OFFICE SPACES		5	5	0.06	0	0	0	1	5	3	0.8	10	0.0	0	---	250	HP-1	
110	115.0	COOLER			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	---	---	---	---	
111	62.0	RESTROOM	PUBLIC - TOILETROOMS	1	0	0	0	0	50	70	0	0	0	0.8	0	70.0	75	EF-2	0	---	
112	62.3	RESTROOM	PUBLIC - TOILETROOMS	1	0	0	0	0	50	70	0	0	0	0.8	0	70.0	75	EF-2	0	---	
113	126.4	PICK UP	FOOD & BEV - KITCHEN (COOKING)														0	---	900	HP-1	

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
EF-1	UPBLAST UL762 EXHAUST FAN	1,900 CFM	1.20 in-wg	300 lb	1 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DU85HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	HURRICANE-RATED VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU85HFA	TDC	GC	ENVIROMATIC

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99MZOP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5FZ	FURNISHED WITH ICE MAKER

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM AIRFLOW	EXHAUST PLENUM E.S.P.	DUCT COLLARS NO.	DUCT COLLARS WIDTH	DUCT COLLARS LENGTH	LENGTH	WIDTH	NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
HD-1	TYPE I CANOPY HOOD	600 °F	1,900 CFM	0.85 in-wg	1	10"	1' - 5"	9' - 4"	4' - 3"	6	900 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW TOTAL	AIRFLOW OA	AIRFLOW E.S.P.	NET COOLING CAPACITY TOTAL	NET COOLING CAPACITY SENSIBLE	EAT DB	EAT WB	COND. EAT	HEATING CAPACITY HEAT PUMP OUTPUT	HEATING CAPACITY SECONDARY ELECTRIC HEAT	HEATING CAPACITY EAT	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL MCA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
RTU-1	KITCHEN ROOFTOP UNIT	10 ton	11	4,000 CFM	1,050 CFM	1.00 in-wg	109,480 Btu/h	92,880 Btu/h	80.2 °F	66.4 °F	95 °F	105,170 Btu/h	54 kW	50.5 °F	1	1	R-410A	16.3 lb	1,239 lb	200 A	184 A	208/3/60	HES	GC	TRANE	WSC120H3RNB	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE, FAULT DETECTION DIAGNOSTICS. 2
RTU-2	DINNING ROOFTOP UNIT	10 ton	11	4,000 CFM	1,050 CFM	1.00 in-wg	109,480 Btu/h	92,880 Btu/h	80.2 °F	66.4 °F	95 °F	105,170 Btu/h	54 kW	50.5 °F	1	1	R-410A	16.3 lb	1,239 lb	200 A	184 A	208/3/60	HES	GC	TRANE	WSC120H3RNB	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE, FAULT DETECTION DIAGNOSTICS. 2

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	1,900 CFM	-1,900 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
RTU-1	4,000 CFM	2,950 CFM	0 CFM	1,050 CFM
RTU-2	4,000 CFM	2,950 CFM	0 CFM	1,050 CFM
NET PRESSURIZATION				50 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	NOTES
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-12	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE WITH INTEGRAL OBD

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND RTU UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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COLORADO REGISTERED PROFESSIONAL ENGINEER JOSEPH G. THOMAS 34886
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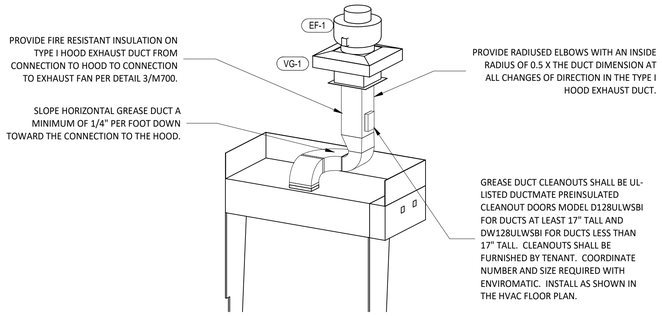
1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

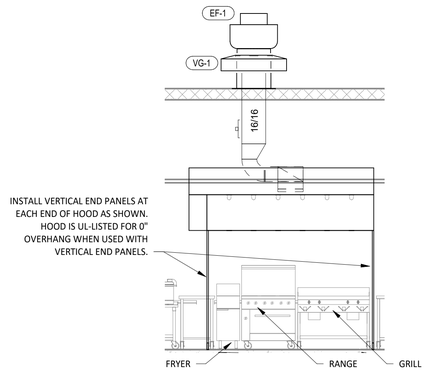
Contents: HVAC SCHEDULES

M600



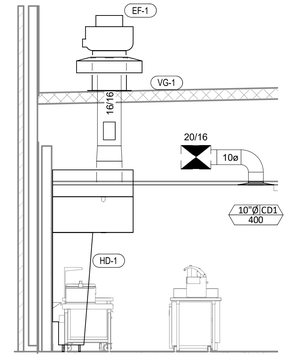
9 M700 HOOD EXHAUST ISOMETRIC

NOT TO SCALE



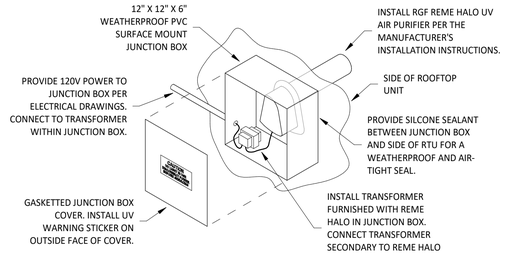
8 M700 HOOD ELEVATION

1/4" = 1'-0"



7 M700 DUCT SECTION AT HOOD

1/4" = 1'-0"



INSTALLATION LOCATION

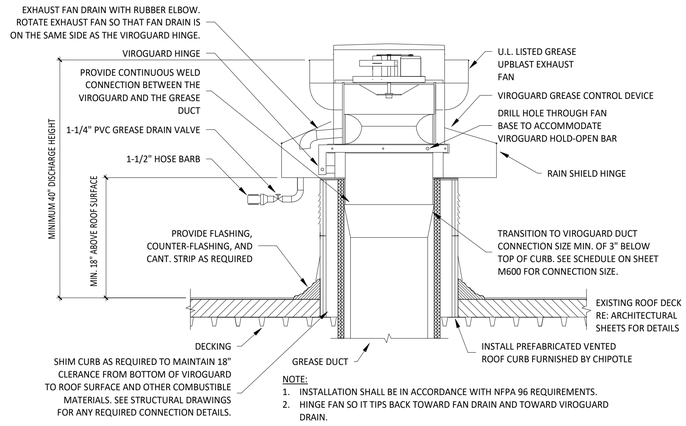
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.

YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

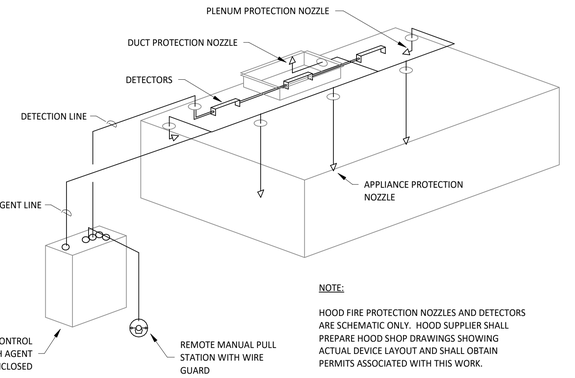
6 M700 UV AIR PURIFIER INSTALLATION

NOT TO SCALE



5 M700 GREASE EXHAUST FAN

NOT TO SCALE

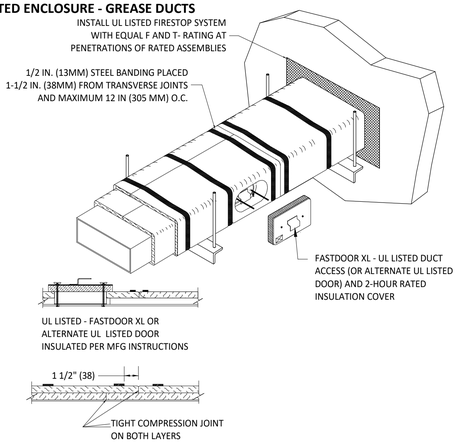


4 M700 FIRE SUPPRESSION SYSTEM SCHEMATIC

NOT TO SCALE

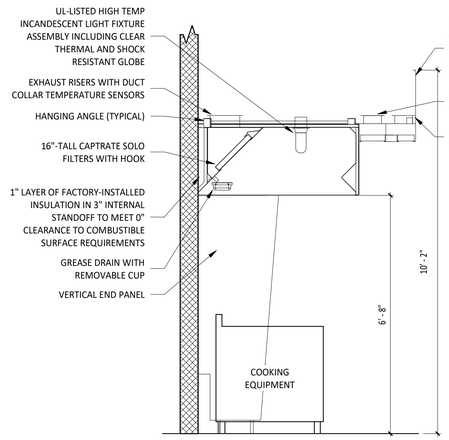
FIRE RATED ENCLOSURE - GREASE DUCTS

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   - NFPA 96
   - INTERNATIONAL MECHANICAL CODES
   - UNIFORM MECHANICAL CODE.
   - CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



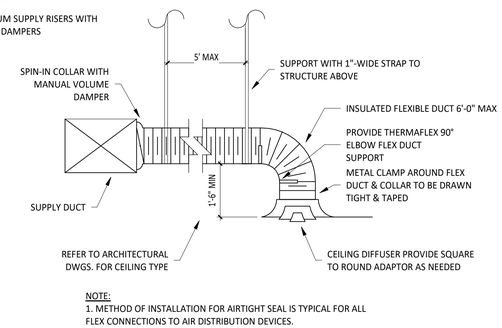
3 M700 FIREMASTER DUCT WRAP - UL HNKT-G18

NOT TO SCALE



2 M700 HOOD SECTION VIEW

NOT TO SCALE



1 M700 DIFFUSER CONNECTION

NOT TO SCALE

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Checked: JT/SK

Project No.
CMG-4882

Contents:
HVAC DETAILS

M700

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	CMG_DENVER,CO #23398 (rev1)
Location:	Denver, Colorado
Climate Zone:	5b
Project Type:	New Construction

Construction Site:
Runway 35N
Denver, Colorado 80907

Owner/Agent:
Chipotle Mexican Grill
Runway 35N
Denver, Illinois 60515

Designer/Contractor:
Joseph Thomas
WCW Engineers, Inc
760 Creel Drive
Wood Dale, Illinois 60191
3123394124
joe.thomas@wcwengineers.com

Additional Efficiency Package(s)

Credits: 10.0 Required 1.0 Proposed
Fault detection and diagnostics system, 1.0 credit

Mechanical Systems List

Quantity **System Type & Description**

2 HVAC System (Single Zone):
Single Package Heat Pump
Heating Mode: Capacity = 105 kBtu/h,
Proposed Efficiency = 3.40 COP, Required Efficiency = 3.40 COP
Cooling Mode: Capacity = 112 kBtu/h, , Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 14.10 IEER
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
rtu-1,2 Supply, Single-Zone VAV, 4000 CFM, 2.8 motor nameplate hp, 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

1 Water Heater:
Electric Storage Water Heater, Capacity: 120 gallons w/ Circulation Pump
Proposed Efficiency: 0.53 SL, %/h (if > 12 kW), Required Efficiency: 0.53 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Joseph G. Thomas — Name - Title
Signature
07/30/2024 — Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.13.2, C403.13.3 [FO9][1]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.6.1, C404.6.1.1 [PL8][3]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.8.4 [ME142][2]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.6 [ME143][2]	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.9 [ME144][2]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.5.5 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5.3.3 [ME124][1]	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5.3.4 [ME125][1]	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5.3.5 [ME126][1]	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.3.3.2 [ME121][3]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Fans with fan motors of 1 hp (0.74 kW) or less.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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COLORADO REGISTERED JOSEPH G. THOMAS 34886 PROFESSIONAL ENGINEER
Date: 09/09/2024
Exp. Date: 10/31/2025

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Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
COMCHECK

M800

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.3.1, C403.11.3.2, C403.11.3.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.3.1 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.1 [FI42][3]	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2.1, C403.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.4 [FI25][2]	All piping insulated in accordance with section details and Table C403.12.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1 [FI12][3]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.11 [FI64][1]	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.1 [FI31][1]	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10][1]	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI7][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.2 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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STORE NO.: 05-5119

RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

Contents:

COMCHECK

M801

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238

Date: 5/8/2024

GENERAL					
Indicate if the project scope includes any of the following:	New construction (Y/N):	Y			
	Addition (Y/N):	N			
	Change of occupancy or use (Y/N):	N			
	First tenant in the space (Y/N):	Y			
	Tenant finish to a previously occupied space (Y/N):	N			
	Core and shell only (Y/N):	N			
	New parking (Y/N):	Y			New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		2,400 GROSS 2,225 NET INT SHELL/TENANT FINISH			
Property type	Is this an all-electric property? (Y/N):	Y	C SERIES SHEETS		ALL-ELECTRIC PROPERTY. A property on a single assessment parcel with an accompanying legally described area of land as shown on a site plan, that, except for emergency power systems and standby power systems : 1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for fuel gas or fuel oil or fuel gas utility connection, installed within the building(s) or site ; or, 2) Contains at least one new stand-alone all-electric building where the property includes existing fuel gas or fuel oil infrastructure built under a code effective prior to May 1, 2023
ENERGIZE DENVER					
C103.2.3	Final 2030 target EUI required by Energize Denver	Enter the final 2030 target EUI required by Energize Denver (Art. XIV, Ch. 10 (Buildings and building regulations), DRMC) applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver Building Energy Performance Requirements document available from the Office of Climate Action, Sustainability and Resiliency. Applies to buildings 25,000 sf and larger.	N/A		Enter EUI in Response box. Indicate location of: - Supplemental calculations if applicable See Technical Guidance for Target Adjustments Appendix A 2030 Targets

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.5.1.1	Building Thermal Envelope Performance Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado registered design professional or approved agency and a final commissioning report provided.	Y	G7250 - WEATHER BARRIERS, G0E2, A403 - A409	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & M010	Indicate location of: - Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & P010	Indicate location of: - Letter with qualifications of the of the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G001 & G001.2	Indicate location of: - Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	For new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1 Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C405.14 / APPENDIX CB : SOLAR ACCESS					
C405.14 CB 103.1 CB 103.3 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low-slope roofs (2:12). Solar ready zone to be no less than 60% of roof area and no side shall be less than 5 feet in length. No obstacles or shading from vents, ducts, pipes, HVAC equipment, skylights, and roof-mounted equipment shall be located in the solar-ready zone.	Y	A140	Indicate location of: - Calculations showing roof area per C405.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zones on drawings and indicate the roof pitch, number of stories in height above grade plane, and orientation - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar-ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system-ready area shall not be less than 2 feet by 4 feet on either dimension.	Y	A110, A130	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system-ready area
C405.9 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalator.	Indicate location of: - Escalator and moving walkway specifications

Version 1.6 Dated March 1, 2024

05.08.2024

Consultant:

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Issue Record:

05/08/2024	PERMIT SET	
Revisions:		
1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
COMPLIANCE CHECKLIST

M802

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - HVAC & Kitchen

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238

Date: 4/23/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
HVAC - ALL COMPLIANCE PATHS					
C402.5.11	Operable Openings Interlocking	Cooling and heating set point adjusted whenever the operable opening larger than 40 sf is open within 10 minutes of opening.	N/A	C402.5.11 - Exeption 1,3	Indicate location of: - Building drawings showing that operable openings have interlock switches to trigger setback of thermostat when open - Sequence of operation
C403.1.2	Data Centers	Data centers systems shall comply with Sections 6 and 8 of ASHRAE 90.4 with changes listed in C403.1.2: - HVAC Maximum Annualized Mechanical Load Component of 0.12 for data centers with ITE design load greater than 300 kW or 0.20 for data centers with ITE design power of 300 kW or less - When ITE design load exceeds 35 kW (10 tons) per room and 20 W/sf of condition floor area use adiabatic humidification systems and include hot-aisle containment - When ITE design load exceeds 35 kW (10 tons) per room and 20 W/sf of condition floor area and air-cooled computers in racks use aisle containment - Use utility recycled water for evaporative cooling towers where available	N/A	Project does not include data center system.	Indicate location of: - ITE design load and W/sf, Annualized MLC - Humidification system if applicable - Hot-aisle containment if applicable - Connection to recycled water system if applicable
C403.2.3	Fault Detection Diagnostics	For new buildings of 25,000 square feet or larger, provide a fault detection and diagnostics (FDD) system to monitor the HVAC system's performance, automatically identify faults, and be capable of reporting them to remotely located authorized personnel. R-1 and R-2 occupancies and heated-only warehouses are exempt.	N/A	building less off 25,000 square feet.	Indicate location of: - Specification of fault detection and diagnostics system
C403.2.4	Space Heating Equipment	**For permit applications submitted after January 1, 2024**, fossil-fuel warm air furnaces and electric resistance space heating equipment are not allowed, with exceptions: - Does not apply to gas fired boiler heating - Not required for make up air systems where energy recovery is prohibited by Denver Mechanical Code - Limited electric resistance is allowed - See 2022 Denver Energy Code for full exception list	N/A	heat pump system with out make up air.	Indicate location of: - Mechanical drawings and schedules detailing compliance with C403.2.4 - Rationale or calculations for exceptions to C403.2.4 if applicable
C403.4.1.1	Heat Pump Supplementary Heat	Provide heat pump controls that limit supplementary heat operation to specific instances noted in C403.4.1.1.	M801	SEE COMCHECK	Indicate location of: - Sequence of operations for heat pump supplementary heat

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C503.3.2	Alteration: Low-Nitrogen Emissions	Provide one of the following where an indoor gas-fired warm air furnace is replaced with another gas-fired warm air furnace: - Low-nitrogen dioxide emissions shall not exceed 14 nanograms of nitrogen dioxide per joule of useful heat delivered to the heated space. - An Annual Fuel Utilization Efficiency of not less than 90 percent. Indoor gas-fired make-up air units are exempt.	N/A	heat pump system with out make up air.	Indicate location of: - Mechanical schedule with nitrogen dioxide or AFUE rating
C503.3.3	Alteration: Partial Electrification for Space Heating	Provide two of the following where a gas-fired warm-air furnace is replaced with a gas-fired warm-air furnace OR one of the following when a unitary air conditioner or condensing unit serving a heated space is replaced with another unitary air conditioner or condensing unit: - Electrification Retrofit Feasibility Report - Sizing per C403.3.1 - Testing of all gas piping connected to the gas meter serving the replaced warm-air furnace per Section 406 of the IFGC. Equipment replaced as an emergency equipment replacement is exempt. Gas-fired boilers used for space heating are exempt.	N/A	heat pump system with out make up air.	Indicate selection / location of the following: - Electrification Retrofit Feasibility Report - Load calculations showing sizing - Intent to test gas piping
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	M800-M801	SEE COMCHECK	Indicate location of: - COMcheck certificate and inspection checklist Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C403.1.1	Calculations of Heating and Cooling Loads	Heating, ventilating, and air conditioning design loads shall be calculated per Section C403.1.1.	M010	Energy Code Note.	Provide load calculations when requested by the Authority Having Jurisdiction. Submitter can list as N.A. for this item, however reviewer may request loads be submitted.
C403.2.1	Zone Isolation Required	HVAC systems serving zones that are over 25,000 square feet in floor area or that span more than one floor and are designed to operate or be occupied non-simultaneously shall be divided into isolation areas.	N/A	building less off 25,000 square feet.	Indicate location of: - Zone isolation - Sequence of operations
C403.2.2	Ventilation	Ventilation, either natural or mechanical, shall be provided in accordance with Chapter 4 of the Denver Mechanical Code (DMC). Note that Section 403.3.1.1 of DMC recommends use of ASHRAE 62.1 spreadsheet.	M010	Energy Code Note.	Indicate location of: - Ventilation calculations on the mechanical drawings. Demonstrate compliance by identifying the outside air flow on the equipment schedules and showing that the equipment outside air flow is greater than the outside air flow as determined by the calculations.
C403.3.1	Equipment Sizing	The output capacity of heating and cooling equipment shall be not greater than that of the smallest available equipment size that exceeds the loads calculated in accordance with Section C403.1.1.	M010	Energy Code Note.	Provide the heat loss and heat gain load calculations when requested by the Authority Having Jurisdiction and show that the equipment provided is the smallest size available from the manufacturer. Submitter can list as N.A. for this item, however reviewer may request loads be submitted.
C403.3.2	Equipment Performance Requirements	Equipment shall comply with the minimum efficiency requirements of Tables C403.3.2(1) through C403.3.2(9).	M600		Indicate location of: - Equipment schedules with efficiencies
C403.3.3	Hot Gas Bypass Limitation	Hot gas bypass is only allowed with multiple steps of unloading or continuous capacity modulation.	N/A	Hot gas bupass not used.	Indicate location of: - Sequence of operations for hot gas bypass

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C403.3.4	Boiler Turndown	Boiler systems with design input of greater than 1,000,000 Btu/h (293 W) shall comply with turndown ratio.	N/A	Boiler system not used.	Indicate location of: - Boiler turn down ratio
C403.4	Thermostatic Controls	Each zone shall be controlled by individual thermostatic controls.	M100	Energy Code Note.	Indicate location of: - Mechanical drawings with thermostats for each HVAC system
C403.4.1.2 C403.4.1.3	Deadband Setpoint Overlap Restriction	Where zone thermostatic controls automatically change between heating and cooling, provide a deadband of not less than 5degF. Where zone has separate controls for heating and cooling, provide mechanical stop or DDC programing to maintain deadband.	M800-M801	SEE COMCHECK Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Indicate location of: - Sequence of operations
C403.4.1.4	Heated or Cooled Vestibules	Vestibule heating shall shut off when outdoor temperature is greater than 45degF. Space temp shall not be set to heat above than 60degF or cool below 85degF.	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.1.5	Hot Water Boiler Outdoor Temperature Setback Control	Provide boiler setback based on the outdoor temperature.	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.2	Off-hour Controls	Systems shall be provided with thermostatic setback to maintain zone temperatures down to 55degF or up to 85degF	M010 M600	Energy Code Note. Control functions.	Indicate location of: - Sequence of operations
C403.4.3	Hydronic Systems Controls	Hydronic system controls shall comply with all applicable sections C403.4.3 through C403.3.3.3 .	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.4	Part-load Controls	Hydronic systems of 300,000 Btu/h or greater shall include: - Automatically reset supply-water temperature in response to building demand - Automatically vary fluid flow - VFD pump motor power input shall be not more than 30% of design wattage at 50% of design flow	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.5	Pump Isolation	Boiler and chiller plants with more than one boiler/chiller shall be configured to reduce flow automatically when a boiler/chiller is shut down.	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.5	Economizers	Provide air or water economizer per C403.5 with exceptions. - Other than a Group R occupancy: Provide air economizer for individual fan systems with published nominal cooling capacity of 33,000 Btu/h (9.7 kW). - Group R occupancy: Provide air economizer for individual fan systems with cooling capacity of 270,000 Btu/h (79.1 kW) - Supply capacity of fan cooling units without economizers shall not exceed requirements of C403.5.	M600		Indicate location of: - Equipment schedules showing air and / or water economizer
C403.5.5	Economizer Fault Detection and Diagnostics	Air-cooled unitary direct-expansion units listed in Tables C403.3.2(1) through C403.3.2(3) and variable refrigerant flow (VRF) units that are equipped with an economizer shall include a fault detection and diagnostics.	M800-M801	SEE COMCHECK	Indicate location of: - Economizer fault detection and diagnostics specification.
C403.6	Supply-air temperature reset controls	C403.6.1 through C403.6.9 shall apply to mechanical systems serving multiple zones.	N/A	Single zone only.	Indicate location of: - Sequence of operations

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C403.7.1	Demand Control Ventilation	Demand control ventilation shall be provided for spaces larger than 500 square feet and with an average occupant load of 15 people or greater per 1,000 square feet of floor area.	M600		Indicate location of: - Mechanical drawings with sensor locations noted - Sequence of operations
C403.7.8	System Control	VAV, SZVAV, DOAS, ERV and MUA systems shall have controls to provide fault if there is excessive outside air, and display or report to DDC and measure and maintain the required flow rate of outside air.	N/A	Single zone only; heat pump system with out make up air.	Indicate location of: - Mechanical drawings with sensor locations noted - Sequence of operations
C403.7.2	Enclosed Parking Garage Ventilation Controls	Enclosed parking garages shall employ carbon monoxide and nitrogen oxide detectors and automatic controls configured to stage fans or modulate fan average airflow rates to 50 percent or less of design capacity, or intermittently operate fans less than 20 percent of the occupied time or as required to maintain acceptable contaminant levels.	N/A	With out enclosed parking.	Indicate location of: - Mechanical drawings with sensor locations noted - Sequence of operations
C403.7.4.1	Energy Recovery for Nontransient Dwelling Units	Provide outdoor air recovery ventilation systems with an enthalpy ratio of not less than 50% at cooling and 60% at heating design conditions.	N/A	With out Nontransient dwelling units.	Indicate location of: - Energy recovery systems and effectiveness
C403.7.4.2	Energy Recovery for Spaces Other Than Nontransient Dwelling Units	Systems with design airflow that exceed the minimum in Tables C403.7.4.2(1) and C403.7.4.(2) shall include an energy recovery system with a minimum enthalpy recovery ratio of 60% at balanced airflow conditions. Systems with economizers shall include a bypass of the energy recovery when conditions allow for free cooling. Energy recovery devices shall not exceed a pressure drop of 1.1" w.g. at design conditions and shall not exceed 0.6" w.g. in economizer mode (bypass). Supply and exhaust fan static efficiency must meet 65%.	N/A	Exception #11.	Indicate location of: - Energy recovery when applicable - Energy recovery effectiveness - Mechanical drawings that distinguish continuously occupied spaces (8,000 or more hr/yr) from other spaces
C403.7.5	Kitchen Exhaust Systems	Kitchen exhaust and make up air systems shall meet requirements of Section C403.7.5.	M600	With out make up air.	Indicate location of: - Make up air calculations - Hood specifications detailing UL710 listing and exhaust rates per table C403.7.5 of the DEC.
C403.7.6	Automatic Guestroom Controls	In buildings with more than 50 guestrooms, each guestroom shall be provided with controls to automatically setback space setpoints. Rented unoccupied room shall be setback by 4degF during unoccupied times. Unrented rooms shall be setback to not lower than 80degF (cooling) and not higher than 60degF (heating).	N/A	With out guestrooms.	Indicate location of: - Sequence of operations - Occupancy sensors or other means of verifying occupancy (keycard controls)
C403.7.7	Shutoff Dampers	Outdoor air intake and exhaust openings and stairway and shaft vents shall be provided with Class I motorized dampers. Not required for exhaust or relief openings in buildings less than three stories in height. Not required for exhaust design capacity is less than 300 cfm.	N/A	With out stairway and shaft.	Indicate location of: - All dampers on the mechanical drawings - Specification for dampers showing Class 1 rated
C403.8	Fans and Fan Controls	Fan and fan controls shall comply with all applicable sections of C403.8.1 through C403.8.5.	M600 M800-M801	See comcheck.	Indicate location of: - Schedules showing fan - Sequence of operations

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C403.8.6	Fan Control	Fan systems that control mechanical cooling output based on space temperature shall have at least two stages of fan control, with the fan drawing at low stage no greater than 40% of the fan power of the fan power a the maximum cooling stage.	M600 M800-M801	See comcheck.	Indicate location of: - Schedules showing fan - Sequence of operations
C403.8.6.2	Intermittent Exhaust Control for Bathroom Fans	An exhaust designed for intermittent operation shall include a Manual-On control, and either a time delay, occupancy sensor, or relative-humidity control	M600 M800-M801	See comcheck.	Indicate location of: - Controls for all bathroom and toilet fans with intermittent exhaust - Sequence of operation
C403.10	Heat Rejection Equipment	Requires: fan speed controls for fan systems with total horsepower of 5 HP or greater (C403.10.1); capability for towers with multiple cells to be run with fans modulated to 50% of design airflow when conditions allow (C403.10.4); heat recovery where there is a design service water heating load exceeds 1,000,000 Btu/h and total heat rejection capacity exceeds 6,000,000 Btu/h (C403.10.5)	N/A	With out fan system with total horsepower of 5 hp or greater.	Indicate location of: - Heat rejections equipment schedules - Sequence of operations
C403.11	Walk-in Coolers/Freezers, Refrigerated Warehouse Coolers/Freezers, and Refrigerated Cases	Walk-in coolers/freezers and refrigerated warehouse coolers/freezers shall comply with Section C403.11.1 or C403.11.2 and C403.11.2.1. Refrigerated display cases shall comply with Section C403.11.3.	M600 M800-M801	See comcheck.	Indicate location of: - Manufacturer product catalog information with the required items identified Site assembled or site constructed walk-in coolers/freezers shall comply with Tables C403.10.2.1(1) through C403.10.2.1(3). Provide calculations demonstrating compliance.
C403.12.1	Duct and Plenum Insulation and Sealing	Supply and return ducts and plenums shall be insulated in accordance with Section C403.12.1. Duct, air handers, and filter boxes shall be sealed per Section C403.12.1.	M010	Energy Code Note.	Indicate location of: - Insulation and sealing details on the mechanical drawings
C403.12.2	Duct Construction	Medium-pressure and high-pressure ductwork shall be constructed in accordance with Sections C403.12.2.1 through C403.12.2.3.	M010	Energy Code Note.	Indicate location of: - Duct construction requirements on the mechanical drawings - Requirements for air leak testing of ducts and plenums operating at 3 in w.g. or higher
C403.12.3	Piping Insulation	Piping serving as part of a heating or cooling system shall be thermally insulated in accordance with Table C403.12.3.	M010	Energy Code Note.	Indicate location of: - Pipe insulation thickness and conductivity on the mechanical drawings
C403.13	Heating Outside Building	Heating outside the building shall be a radiant system and controlled by an occupancy sensor or timer switch. Provide C403.13.2 Snow and ice-melt controls or C403.13.2 Freeze protection controls as applicable.	N/A	With out heating outside.	Indicate location of: - Heating outside the building and control device to be installed on the mechanical drawings - Sequence of operations
C403.15	Dehumidification and Cooling Efficiency for Plant Growth and Maintenance	Dehumidification and cool efficiency for plant growth and maintenance shall comply with Sections C403.15.1 and C403.15.2.	N/A	With out indoor agricultural operations.	Indicate location of: - Equipment schedules with fan efficiencies - If using electric or fossil fuel reheat systems, calculations showing that the primary dehumidification system meets 60% of the peak dehumidification load
C405.8	Electric Motors	Electric motors shall meet the minimum efficiency requirements in Tables C405.8(1) through C405.8(4).	N/A	Exception #1.	Indicate location of: - Motor efficiency

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C406 SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.2.1 C406.2.3 C406.2.6	Heating Efficiency Improvement	More Efficient Heating Performance: C406.2.1 - 5% C406.2.3 - 10% C406.2.6 - > 10%	N/A		Indicate credit selected and location of: - Heating efficiency - Supplemental calculations if applicable
C406.2.2 C406.2.4 C406.2.5	Cooling Efficiency Improvement	More Efficient Cooling Performance: C406.2.2 - 5% C406.2.4 - 10% C406.2.5 - > 10%	N/A		Indicate credit selected and location of: - Cooling efficiency - Supplemental calculations if applicable
C406.6	Dedicated Outside Air System	Dedicated Outside Air System	N/A		Indicate location of: - Dedicated outside air systems with energy recovery - Sequence of operations for reset - Supplemental calculations if applicable
C406.11	Fault Detection and Diagnostics	Provide a fault detection and diagnostics (FDD) system to monitor the HVAC system's performance and automatically identify faults and be capable of reporting them to remotely located authorized personnel.	M800-M801	1.0 credit	Indicate location of: - Specification of fault detection and diagnostics system
C406.12	Efficient Kitchen Equipment	High-performance commercial kitchen equipment with at least one gas or electric fryer, all fryers, dishwashers, steam cookers and ovens	N/A		Indicate location of: - Kitchen equipment and performance levels
C406.13	All-Electric Space Heating	Provide electric equipment for space heating. Electric resistance load shall not exceed 5 W per square foot of conditioned floor area for areas of the building served by Variable Air Volume systems and 1.35 W per square foot of conditioned floor for all other areas of the building.	N/A		Indicate location of: - Heating equipment - Supplemental calculations of electric heat W/sf if applicable
C406.14	Cold Climate Heat Pumps	Adds requirement for COP and capacity of heat pumps at low ambient temperatures and restricts the use of electric resistance heat.	M600 M800-M801	See comcheck.	Indicate location of: - Heat pump equipment and performance data - Supplemental calculations of electric heat W/sf if applicable
C406.16	Demand Responsive Thermostats	All thermostatic controls serving the building shall be provided with demand responsive controls that serves the building site.	N/A		Indicate location of: - Demand responsive thermostats - Sequence of operations
C406.17.1 C406.17.2	Reduced Fan Power	Reduced Fan Power C406.17.1 - 10% C406.17.2 - 20%	N/A		Indicate credit selected and location of: - Fan power - Supplemental calculations

Version 1.6 Dated March 1, 2024

Consultant:

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Date: 09/09/2024
Exp. Date: 10/31/2025

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RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
COMPLIANCE CHECKLIST

M803

FOR QUESTIONS, CALL THE
Highwoods Group
REGION 40
PHONE: (919) 875 - 0420
EMAIL: reg40@captiveaire.com

PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#6807545

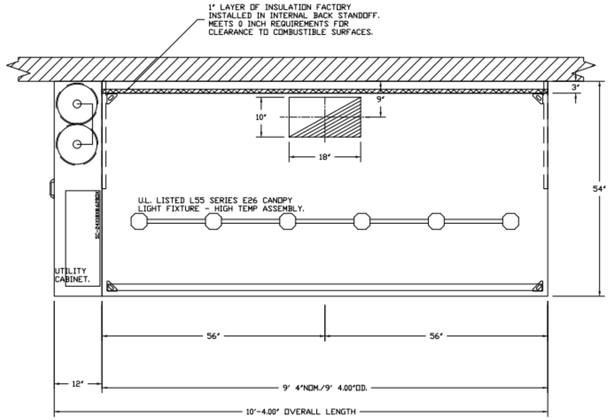
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 ND-2	CAPTIVEAIRE	9' 4"	600 DEG	I	HEAVY	204	1900	10"	18"	4"		1900	1520	-0.818"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

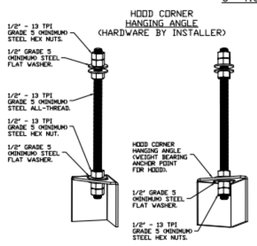
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	7	16"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-110110MA	1 LIGHT 1 FAN	YES	880 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FULL DIMENSION HANGING BRACKET - FRONT.

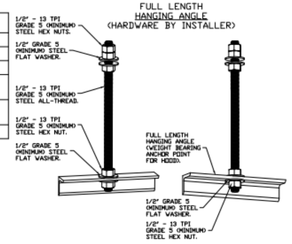


PLAN VIEW - HOOD #1
9' 4.00" LONG 5424ND-2



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



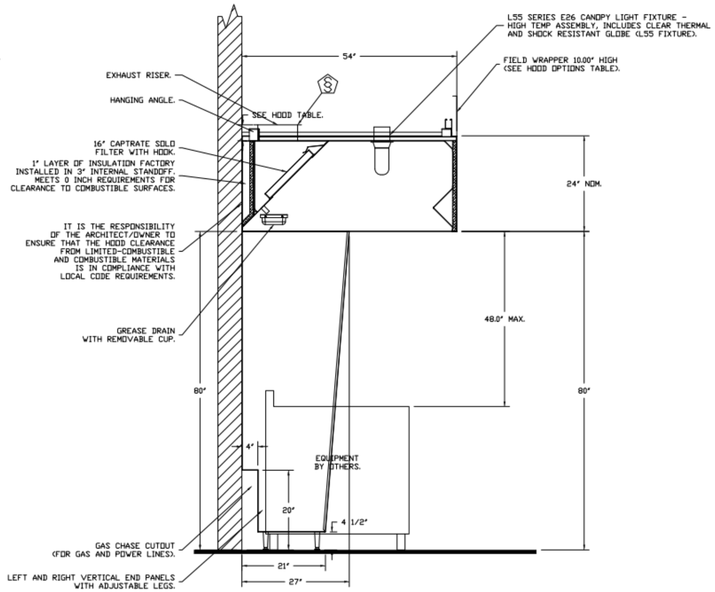
ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	18"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW - MODEL 5424ND-2
HOOD - #1

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

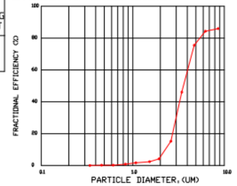
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

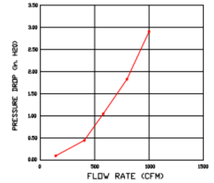
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

REVISIONS

	DESCRIPTION	DATE:
1		
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CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024
DWG.#: 6807545
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

Consultant:
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JOSEPH G. THOMAS
34886
PROFESSIONAL ENGINEER
Date: 09/09/2024
Exp. Date: 10/31/2025

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STORE NO.: 05-5119
RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK
Project No.: CMG-4882
Contents: CAPTIVEAIRE DRAWINGS

M900 1

FIRE SYSTEM INFORMATION – JOB#6807545

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 – 0 – TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 – 0 – 32-00002 QUIK SEAL – 1/2" (UL).	1	0
		0 – 0 – 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 – 0 – 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 – 0 – 79525 1/2" 90 PRD-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 – 0 – 79580 1/2" X 1/2" PRD-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 – 0 – 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300001-001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87-300030-001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 9055455PC PRD PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 – 0 – 9097200PC PRD PRESS PC611 1/2 PRESS TEE LD.	5	0
		0 – 0 – 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – A314B4 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 – 0 – B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 – 16 – 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 – 16 – DL-F NOZZLE – TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 – 26 – QSA-3/8 QUIK SEAL – 3/8" (UL).	6	0
		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

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DWG.#: 6807545

DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 2

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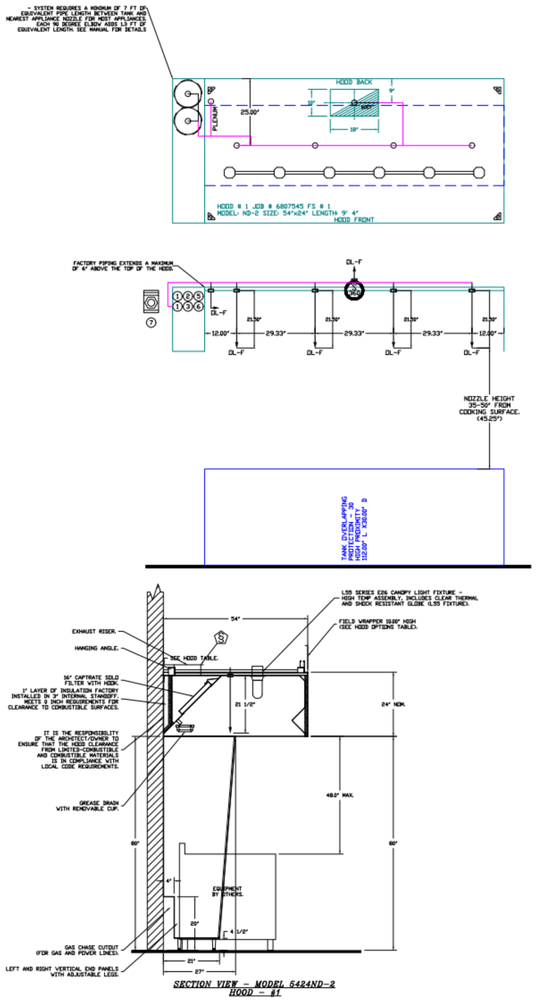
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Project No.
CMG-4882

Contents:
CAPTIVEAIRE DRAWINGS

M901 1



SECTION VIEW - MODEL S424ND-2
HOOD - #1

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH UL. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 6807545.
JOB NAME: CHIPOTLE RUNWAY 35N #5119.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 28. MAXIMUM FP: 40.
HOOD # 1 9' 4.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" x 18".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE). GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

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Project No.: CMG-4882

Contents:
CAPTIVEAIRE DRAWINGS

M902 1

EXHAUST FAN INFORMATION – JOB#6807545

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DUBSHFA	CAPTIVEAIRE	1900	1.200	1477	TEAD-ECM	1.000	0.5810	1	115	11.6	601 FPM	94	14.2
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.500	1181	TEAD-ECM	0.250	0.0730	1	115	2.9		50	5.1

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC-(TELCO), CCW ROTATION
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY

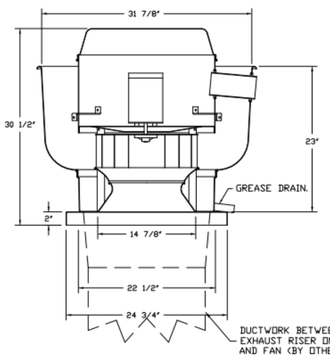
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	32 LBS	CURB	23.000"W X 23.000"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.

FAN #1 DUBSHFA - EXHAUST FAN (EF-1)



FEATURES:

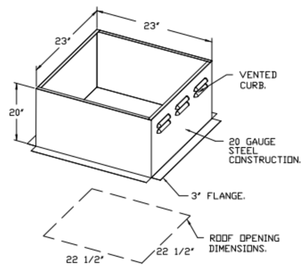
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

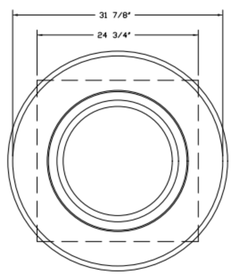
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.





TOP VIEW

REVISIONS

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SHEET NO. 4

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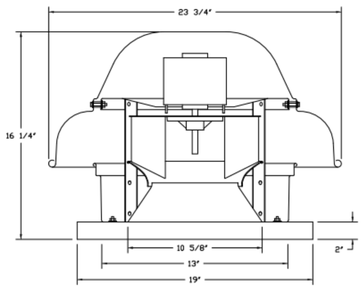
Project No.: CMG-4882

Contents:

CAPTIVEAIRE DRAWINGS

M903 1

FAN #2 DR12HFA - EXHAUST FAN (EF-2)

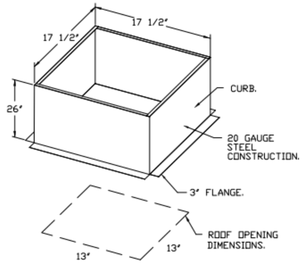


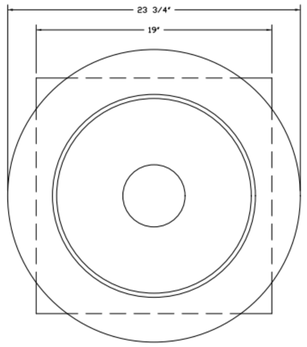
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

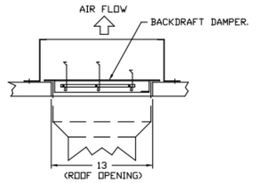
- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION.
- 1 12-BDD DAMPER.
- 2 YEAR PARTS WARRANTY.





TOP VIEW

BACKDRAFT DAMPER INSTALLATION



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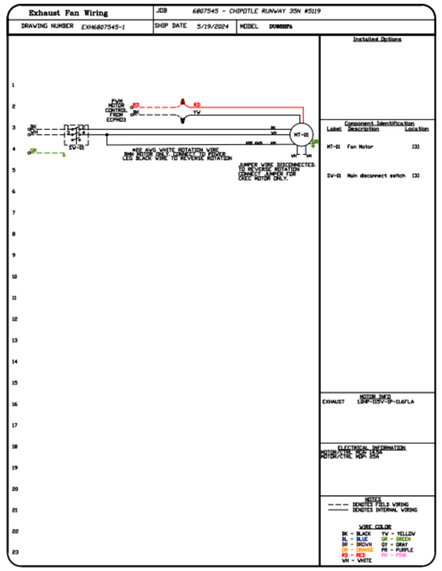
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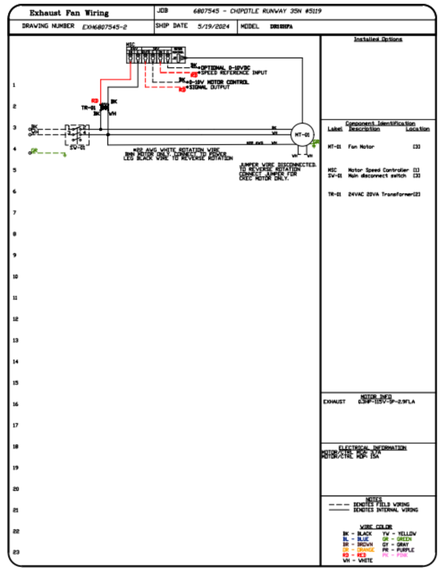
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M904 1





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DRAWN BY: JMB-40

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MASTER DRAWING

SHEET NO. 6

Consultant:

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
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815.369.9155
1764 BLAKE ST
DENVER, CO 80202
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COLORADO REGISTERED
JOSEPH G. THOMAS
34886
PROFESSIONAL ENGINEER
Date: 09/09/2024
Exp. Date: 10/31/2025

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CHIPOTLE MEXICAN GRILL

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STORE NO.: 05-5119

RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

	05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

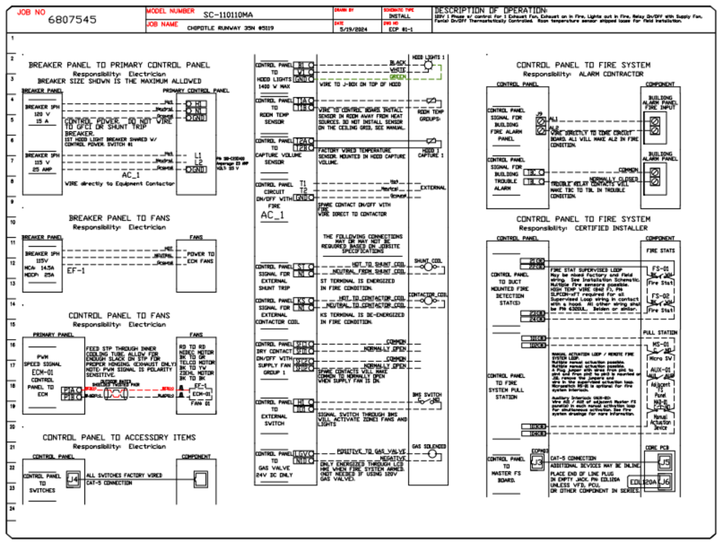
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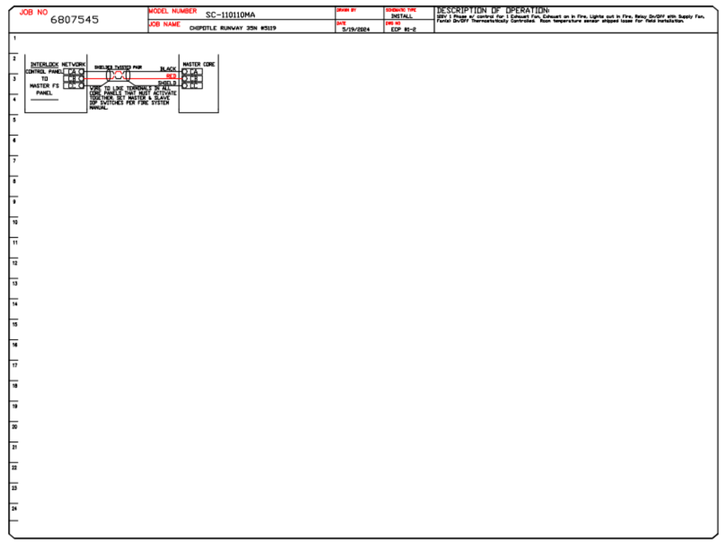
CAPTIVEAIRE DRAWINGS

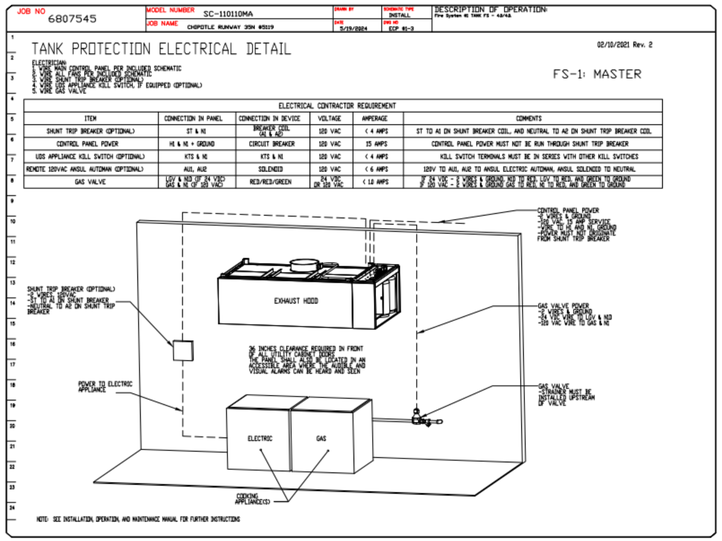
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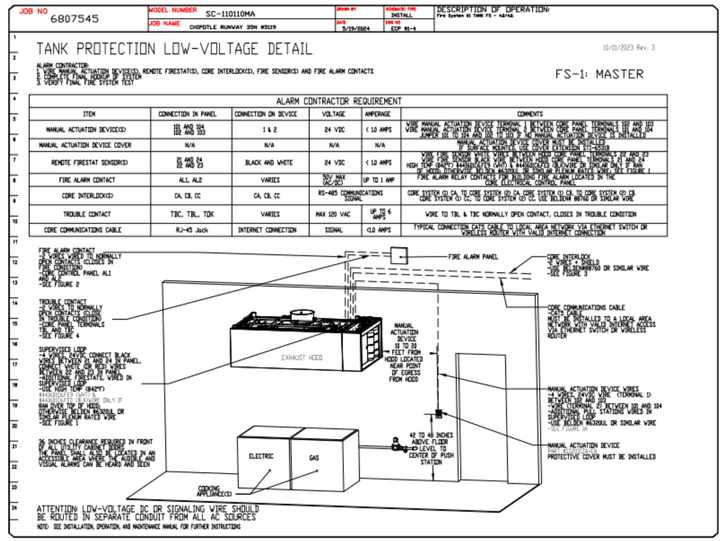
ELECTRICAL PACKAGE – JOB#6807545

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-110110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	1	1.000	115	11.6
				HOOD # 1	1 FAN							









REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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Highwoods Group
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CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024

DWG.#: 6807545

DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 7

Consultant:

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COLORADO REGISTERED PROFESSIONAL ENGINEER
JOSEPH G. THOMAS
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Date: 09/09/2024
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RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

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2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
CAPTIVEAIRE DRAWINGS

M906 1

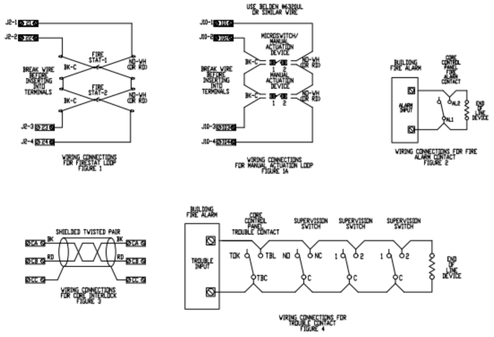
JOB NO 6807545 | MODEL NUMBER SC-110110MA | JOB NAME CHIPOTLE RUNWAY 35N #5119 | DRAWN BY JMB-40 | DATE 5/19/2024 | SCHEMATIC TYPE INSTALL | SHEET NO. CP #1-5

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 48/48.

TANK PROTECTION LOW-VOLTAGE FIGURES

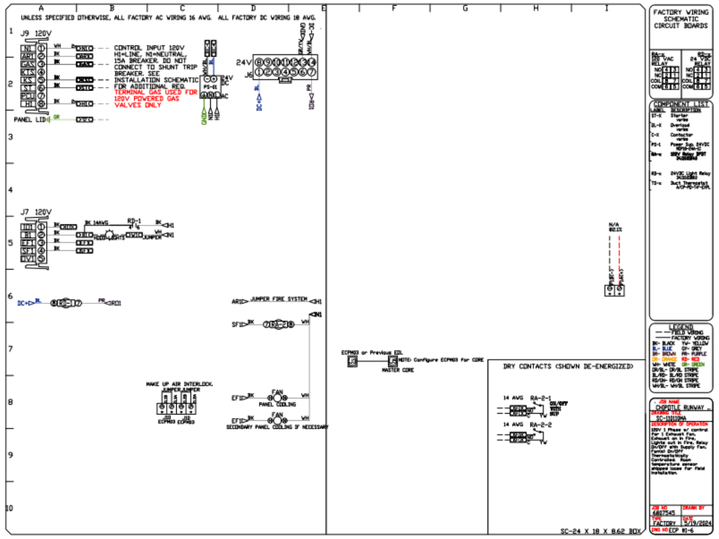
10/01/2023 Rev. 17

FS-1: MASTER



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

COMPONENT LIST

LEGEND

CHIPOTLE SURVAY

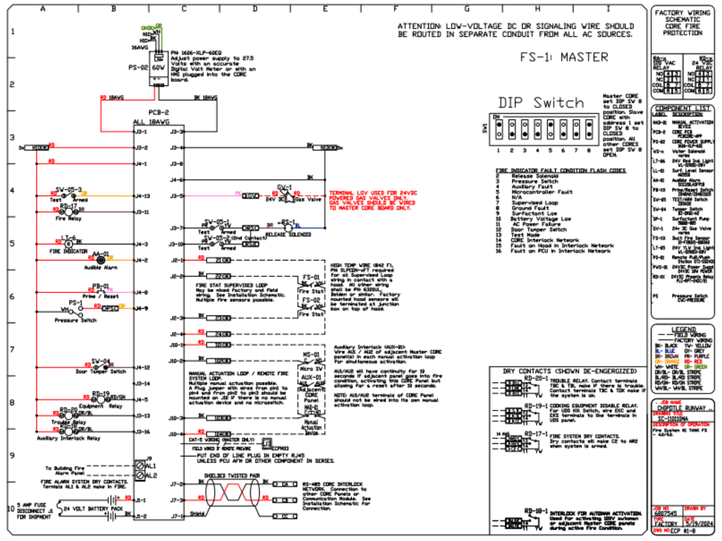


FACTORY WIRING SCHEMATIC CIRCUIT BOARDS
DCV Rev. 2.10.00
HMI Rev. 2.10.00

COMPONENT LIST

LEGEND

CHIPOTLE SURVAY



FACTORY WIRING SCHEMATIC CORE FIRE PROTECTION

COMPONENT LIST

LEGEND

CHIPOTLE SURVAY

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DRAWN BY: JMB-40

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MASTER DRAWING

SHEET NO. 8

STORE NO.: 05-5119
RUNWAY 35N 8968 E. 46TH AVE
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Drawn: VH | Checked: JT/SK

Project No. CMG-4882

Contents: CAPTIVEAIRE DRAWINGS

M907 1

SECTION 15055 - COMMON PIPING REQUIREMENTS
PART 1 - GENERAL
A. SECTION REQUIREMENTS
1. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install piping free of sags and bends.
B. Install fittings for changes in direction and branch connections.
C. Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Install unions adjacent to each valve and at final connection to each piece of equipment.
G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
I. Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.
3.2 HANGERS AND SUPPORTS
A. Install building attachments within concrete or to structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and at changes in direction of piping.
B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
D. Support fire protection system piping independent of other piping.
E. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Coat glass fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
1. Domestic cold, hot, and recirculation water pipes.
2. Exposed sanitary drains and water supply pipes for public hand sinks.
3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
1. Flexible connectors.
2. Fire protection piping systems.
3. Sanitary drainage and vent piping.
4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
1. Domestic Hot and Recirculation water pipes: 1-inch preformed glass fiber pipe insulation.
2. Domestic Cold Water: 1/2-inch preformed glass fiber pipe insulation.
3. P-Trap and Fixture Supplies for public hand sinks: ADA-compliant pre-formed insulation.
END OF SECTION 15080

SECTION 15110 - VALVES
PART 1 - GENERAL (Not Applicable)
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder-joint connections shall comply with ANSI B16.18.
B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure; 2 piece construction; with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.
D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y-pattern, and bronze disc.
E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
F. Valves for Steel Pipe: Threaded ends.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Use gate and ball valves for shutoff duty and ball for throttling duty.
B. Locate valves for easy access and provide separate support where necessary.
C. Install accessible valves for each fixture and item of equipment.
D. Install valves in horizontal piping with stem at or above center of pipe.
E. Install valves in a position to allow full stem movement.
F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:
1. Service Entrance Piping: 100 psig.
2. Domestic Water Piping: 80 psig.
B. Comply with NSF 14 "Plastic Piping Components and Materials."
C. Comply with NSF 61 "Drinking Water System Components -- Health Effects."
PART 2 - PRODUCTS
2.1 PIPES AND TUBES (See Material Schedule on sheet P010 for where these materials are to be used)
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
B. PVC Plastic, Water Pipe: ASTM D 1785, Schedule 80, plain ends.
2.2 FITTINGS
A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.
D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded, or solder joint and threaded ends. Threads complying with ASME B 1.20.1.
E. PVC Plastic, Schedule 80, Socket Type Pipe Fittings: ASTM D 2467.
2.3 JOINING MATERIALS
A. Solder Filler Metal: ASTM B 32, lead free.
B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.
C. Solvent Cements: As recommended by manufacturer.
D. Plastic Pipe Seals: ASTM F 477, elastomeric gasket.
PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having stops on supplies, and elsewhere as indicated.
C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
D. Install swing check valve on discharge side of each pump and elsewhere as indicated.
E. Install ball valves in each hot water circulating loop and discharge side of each pump.
3.2 PIPING INSTALLATIONS
A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.
B. Support vertical piping at each floor.
3.3 INSPECTING AND CLEANING
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.
B. Comply with NSF 14 "Plastic Piping Components and Related Materials".
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2.2 FITTINGS
A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket type; drain, waste, and vent pipe patterns.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.2 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15410 - PLUMBING FIXTURES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
Submittals: None.
A. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
B. Comply with applicable standards below:
1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
2. National Sanitation Foundation Construction: NFS2.
3. Porcelain Enameled Fixtures: ASME A112.19.4M.
4. Slip Resistant Bathing Surfaces: ASTM F 462.
5. Stainless Steel Fixtures: ASME A112.19.3M.
6. Vitreous China Fixtures: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 Refer to the fixture schedule on drawing P600
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fixtures with flanges and gasket seals.
B. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for the disabled to reach.
C. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
D. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
E. Fasten wall mounted fittings to reinforcement built into walls.
F. Fasten counter mounted plumbing fixtures to casework.
G. Secure supplies to supports or substrate within pipe space behind fixture.
H. Set mop basins in leveling bed of cement grout.
I. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
J. Install water supply stop valves in accessible locations.
K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated or required by the Authority Having Jurisdiction.
L. Install full-ring escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
M. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
N. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15554 - FLUES AND VENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/air intake for high efficiency domestic water heater. Follow manufacturer's recommendations for sizing and material.
B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thimbles, firestopping spacers, and fasteners; fabricated of similar materials and designs as vent-pipe straight sections.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vents according to stipulated minimum clearances from combustibles.
B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.
C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.
END OF SECTION 15554

PLUMBING SYMBOLS

	ELBOW UP
	ELBOW DOWN
	DOMESTIC COLD WATER
F	DOMESTIC FILTERED COLD WATER
S	DOMESTIC SOFTENED COLD WATER
	DOMESTIC HOT WATER (110 DEGREES)
	DOMESTIC HOT WATER RECIRC.
G	GAS
G	GAS (ON ROOF)
	SANITARY WASTE
GW	GREASE WASTE
	SANITARY VENT
CD	CONDENSATE DRAIN
X	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	CONNECT TO EXISTING
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
WM	WATER METER
GM	GAS METER
XX-#	EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P600 FOR EQUIPMENT INFORMATION
	VALVE
	SOLENOID-OPERATED VALVE
	WALL HYDRANT/ROOF HYDRANT
	CHECK VALVE
	CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
	FLOOR DRAIN
	FLOOR SINK
	CLEANOUT

COMMISIONING PLAN - 2022 DENVER ENERGY CODE

THE FOLLOWING SYSTEMS SHALL BE COMMISSIONED BY A COMMISINING AGENT HIRED BY PLUMBING CONTRACTOR TO THE STANDARDS STATED BELOW AND PER IECC 2018:

- DWH-1

1. "FUNCTIONAL PERFORMANCE TESTING". SHALL BE CONDUCTED.

1.1 "EQUIPMENT". EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED. TESTING SHALL INCLUDE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD AND THE FOLLOWING EMERGENCY CONDITIONS:

2. "PRELIMINARY COMMISSIONING REPORT". A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT" AND SHALL IDENTIFY:

A. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
B. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS.
C. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.

2.1 "ACCEPTANCE OF REPORT". BUILDINGS, OR PORTIONS THEREOF, SHALL NOT PASS THE FINAL MECHANICAL INSPECTION UNTIL SUCH TIME AS THE CODE OFFICIAL HAS RECEIVED A LETTER OF TRANSMITTAL FROM THE BUILDING OWNER ACKNOWLEDGING THAT THE BUILDING OWNER HAS RECEIVED THE PRELIMINARY COMMISSIONING REPORT.

2.2 "COPY OF REPORT". THE CODE OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A COPY OF THE PRELIMINARY COMMISSIONING REPORT BE MADE AVAILABLE FOR REVIEW BY THE CODE OFFICIAL.

3. "DOCUMENTATION REQUIREMENTS". THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

3.1 "DRAWINGS". CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT.
3.2 "MANUALS". AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE ALL OF THE FOLLOWING:

A. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
B. MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
C. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
D. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
E. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

3.3 "SYSTEM BALANCING REPORT". A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASUREMENTS COMPLETED IN ACCORDANCE WITH DENVER ENERGY CODE.
3.4 "FINAL COMMISSIONING REPORT". A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS "FINAL COMMISSIONING".

REPORT SHALL BE DELIVERED TO THE BUILDING OWNER AND SHALL INCLUDE:

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

PLUMBING ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
CW	DOMESTIC COLD WATER
DN	DOWN
EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FOH	FRONT OF HOUSE
FS	FLOOR SINK
FW	DOMESTIC FILTERED COLD WATER
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GT	GREASE TRAP
GW	GREASE WASTE
GYP	GYPSUM BOARD
HW	DOMESTIC HOT WATER
NTS	NOT TO SCALE
O/H	OVERHEAD
SAN	SANITARY WASTE

PLUMBING ABBREVIATIONS

ST	STORM SEWER
SW	DOMESTIC SOFTENED COLD WATER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WIC	WALK-IN COOLER
C02AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PLUMBING GENERAL NOTES

A GENERAL NOTES APPLY TO PLUMBING SHEETS.
B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
E PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
F PROVIDE STOP VALVES AT FIXTURES.
G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON SHEET P100.
H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 8/P700.
K PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
M PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
N THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
O PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
P PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.

PLUMBING MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
NATURAL GAS PIPE		
	CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED
SANITARY WASTE & VENT PIPE		
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS
WATER SUPPLY PIPE		
	ABOVE GRADE	TYPE L COPPER TUBE

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Contents:
PLUMBING SPECIFICATIONS

P010

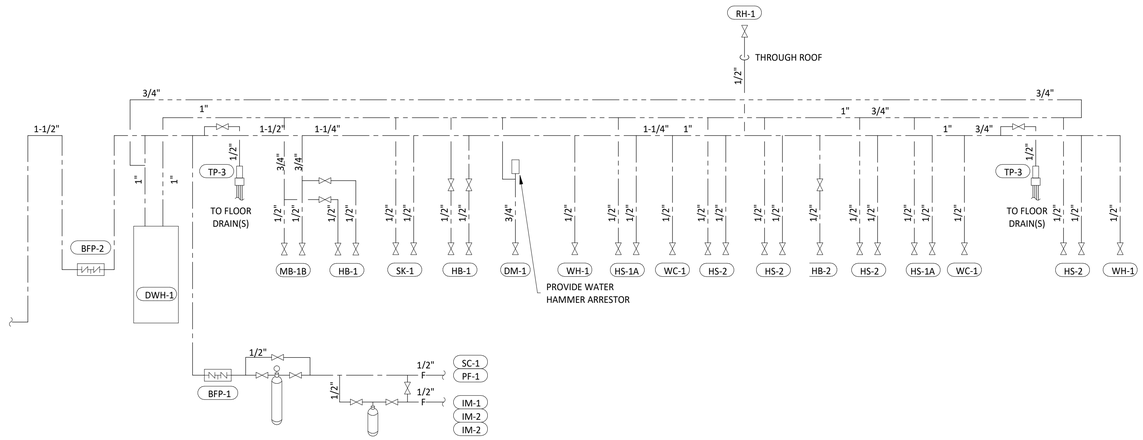
PLUMBING SUPPLY PLAN NOTES

1 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE.
2 PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
3 PROVIDE WATER HEATERS DWH-1 PER DETAIL 1/P700.
4 PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
5 PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 56" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
6 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
7 NOT USED.
8 NOT USED.
9 NOT USED.
10 NOT USED.
11 NOT USED.
12 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
13 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
14 PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 14/P700.
15 NOT USED.
16 CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
17 PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
18 PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
19 NOT USED.
20 NOT USED.
21 PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
22 INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
23 PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN.
24 PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING 3/4" COPPER PIPE ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FLEXIBLE CONNECTION IS NOT ACCEPTABLE). PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSABLE SHUTOFF VALVE AND UNION BELOW THE DISH MACHINE AND INSTALL THE STRAINER FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
25 PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
26 PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27 CONNECT TO EXISTING 1-1/2" DCW. FIELD VERIFY EXISTING LOCATION.
28 INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
29 PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
30 PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S)

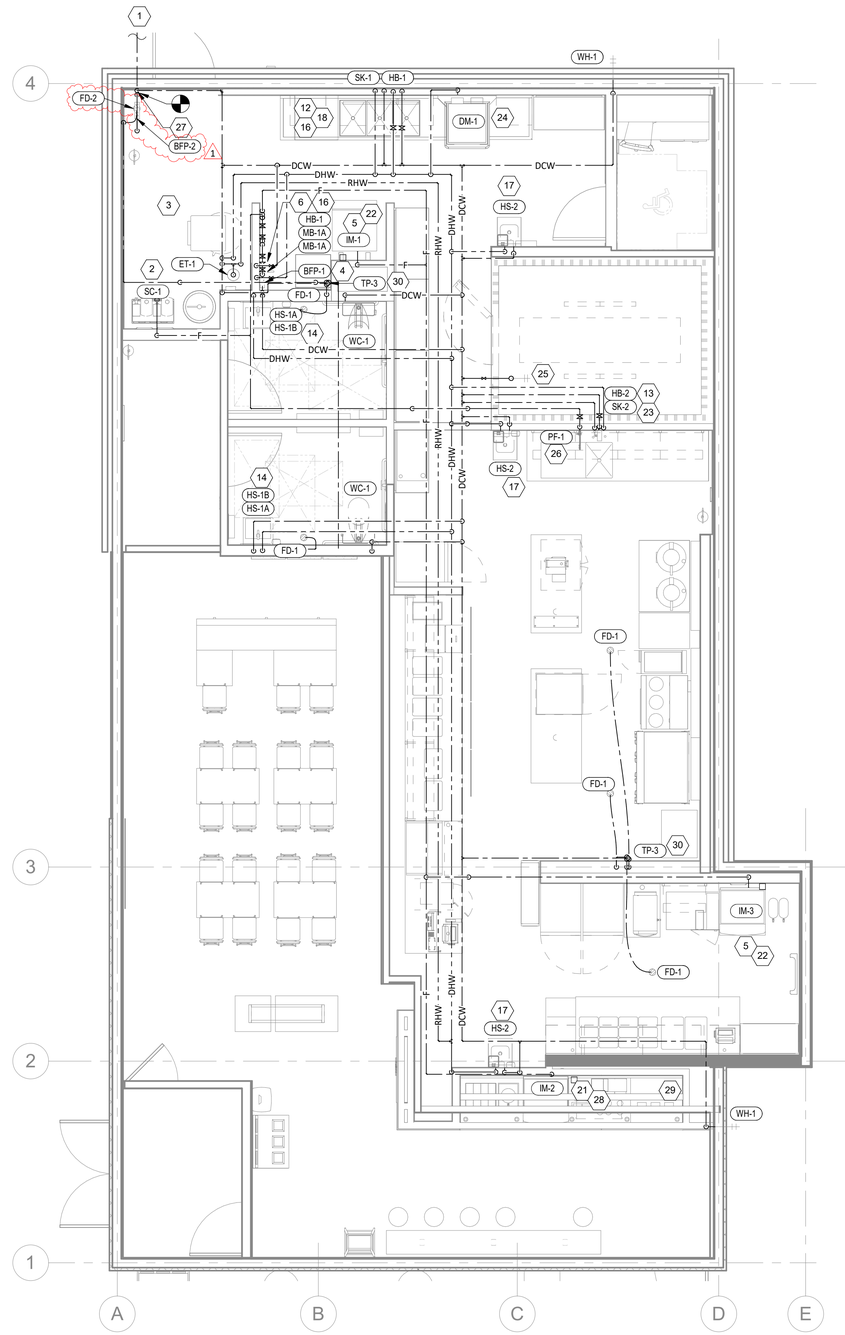
PLUMBING FIXTURE SUPPLY CONNECTIONS

ROUGH-IN TYPE KEY	
ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)
ANGLE 1/2"	BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE
HOSE 1/2"	ARROWHEAD BRASS WM50F OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.

TAG	DESCRIPTION	CONNECTION SIZE CW	CONNECTION SIZE HW	ROUGH-IN TYPE	WSFU CW	WSFU HW	WSFU TOTAL	COUNT	TOTAL WSFU
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	0	0	0	1	0
BFP-2	RPZ BACKFLOW PREVENTER	1 1/2"		DIRECT	0	0	0	1	0
DM-1	DISH SANITIZING MACHINE (VENTLESS & PUMPED OUTLET)	1/2"	3/4"	ANGLE 3/4"	1	3	3	1	3
ET-1	EXPANSION TANK	3/4"			0		0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"		2.25	2.25	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"			1.5		1.5	1	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"		1.5	1.5	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"		1.5	1.5	2	3	6
IM-1	ICE MAKER - BOH	1/2"		HOSE 1/2"	1		1	1	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
IM-3	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
MB-1B	MOP SINK FAUCET	1/2"	1/2"		2.25	2.25	3	1	3
PF-1	SPEED FILL FAUCET	3/8"			1.5		1.5	1	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"			1		1	1	1
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	1/2"		ANGLE 3/8"	1		1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"		3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"		3	3	4	1	4
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	1/2"			0		0	2	0
WC-1	WATER CLOSET	1/2"			2		2	2	4
WH-1	FREEZE PROOF WALL HYDRANT (E)	3/4"			1		1	2	2
GRAND TOTAL									44



1 P100 **PLUMBING SUPPLY DIAGRAM**
1/4" = 1'-0"



5 P100 **PLUMBING SUPPLY PLAN**
1/4" = 1'-0"

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PLUMBING PLAN WATER

P100

PLUMBING WASTE AND VENT PLAN NOTES

1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFF.

2 PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.

3 COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.

4 NOT USED.

5 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.

6 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.

7 CONNECT TO EXISTING GREASE WASTE LINE, FIELD VERIFY EXACT LOCATION.

8 CONNECT TO EXISTING SANITARY LINE, FIELD VERIFY EXACT LOCATION.

9 PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.

10 PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.

11 TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.

12 NOT USED.

13 DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.

14 PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

15 PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

16 PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.

17 INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.

18 PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.

19 SEE DETAIL 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.

20 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" STORM SEWER.

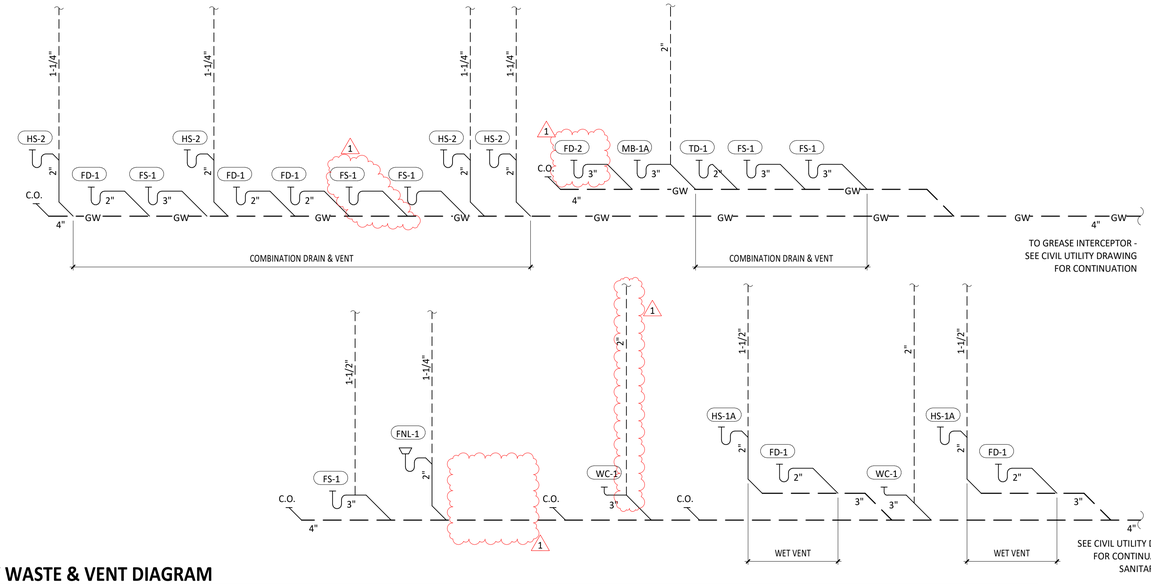
21 PROVIDE 3" STORM DRAIN CONDUCTOR FROM PRIMARY ROOF DRAIN RD-1 DOWN IN WALL TO 4" STORM DRAIN BELOW GRADE. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.

22 PROVIDE 3" STORM DRAIN CONDUCTOR FROM SECONDARY ROOF DRAIN RD-2 TO DOWNSPOUT NOZZLE DN-1 MOUNTED AT 12" AFG. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.

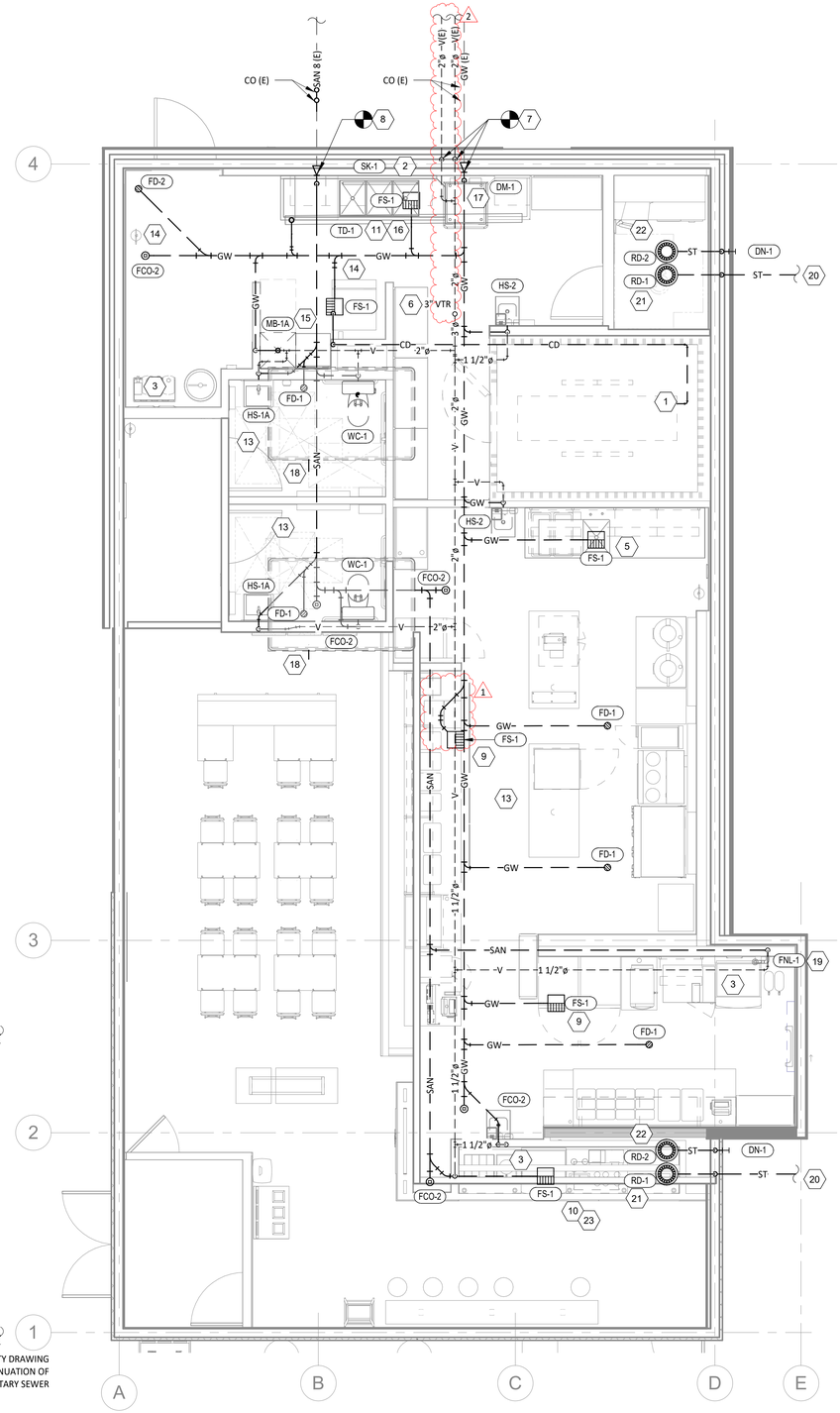
23 PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.

PLUMBING FIXTURE WASTE CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
DM-1	DISH SANITIZING MACHINE (VENTLESS & PUMPED OUTLET)	5/8"	7	1	7
FCO-2	FLOOR CLEANOUT (4")	4"	0	5	0
FD-1	FLOOR DRAIN	2"	2	5	10
FD-2	FLOOR DRAIN	4"	6	1	6
FNL-1	FUNNEL DRAIN	2"	2	1	2
FS-1	FLOOR SINK	3"	5	6	30
HS-1A	RESTROOM HAND SINK	2"	1	2	2
HS-2	KITCHEN HAND SINK	2"	1	3	3
MB-1A	MOP BASIN	3"	2	1	2
SK-1	THREE COMPARTMENT SINK	2"	0	1	0
SK-2	PREP SINK	2"	0	1	0
TD-1	TRENCH DRAIN	2"	2	1	2
WC-1	WATER CLOSET	3"	4	2	8
GRAND TOTAL					72



2/P110 **SANITARY WASTE & VENT DIAGRAM**
NOT TO SCALE



1/P110 **SANITARY WASTE & VENT PLAN**
1/4" = 1'-0"

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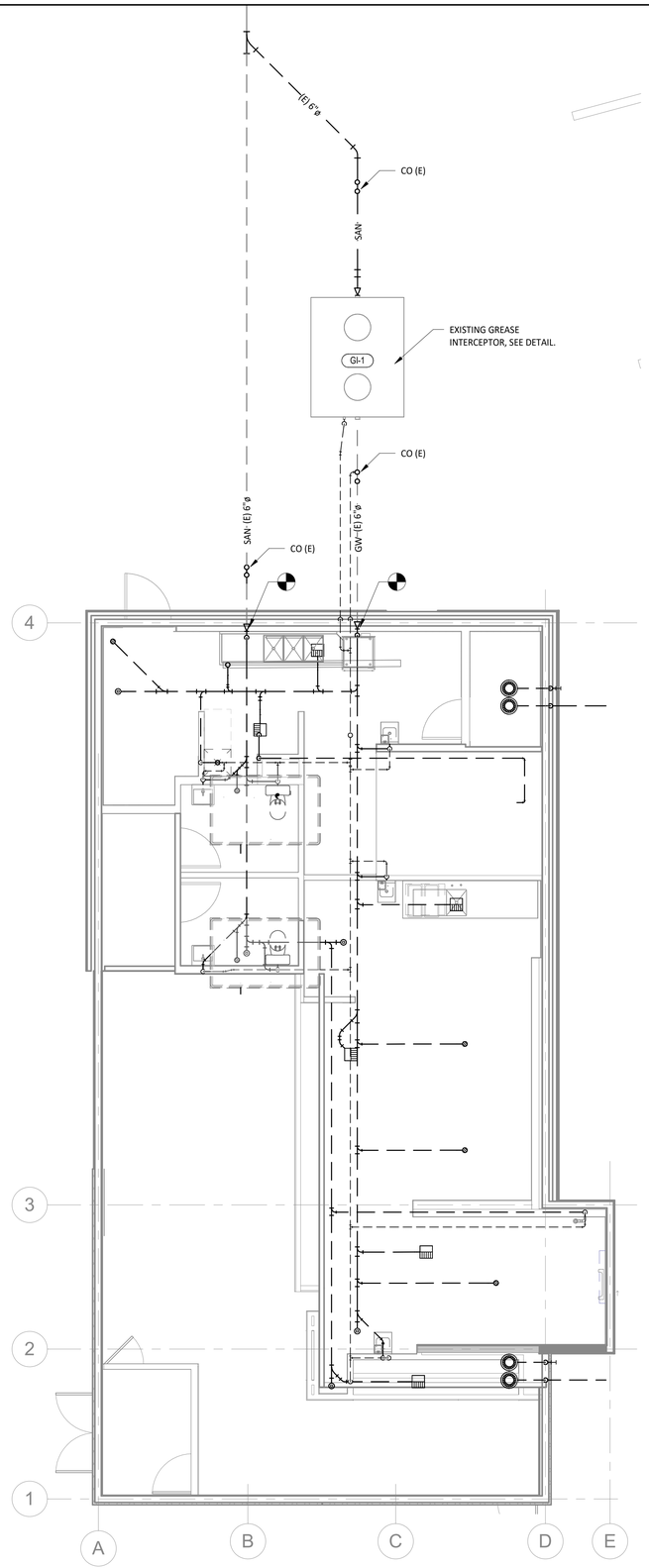
1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
PLUMBING PLAN WASTE & VENT

P110



1 P120 **SANITARY GRASE INTERCEPTOR PLAN**
3/16" = 1'-0"

Data Entered:

Cooking	
Appliance	Quantity
stove(s)/griddle(s)	2
oven(s)	0
broiler(s)	0
fryer(s)	1
wok(s)	0

Drainage Fixtures	
Fixture	Quantity
3 comp or 2 comp sink	1
Pot Sink	1
Mop Sink	1
Floor Sink	5
Hand Sink	3
Garbage Disposal	0
Dishwasher	1

Establishment Information	
Majority Take Out?	Yes
Seating Capacity	49
Hours of Operation	11.25
Peak Meals Per Day	400
Peak meals Per Hour	100
Total CUF	4.5

Required Grease Interceptor Size:
1102.5 **Gallons**

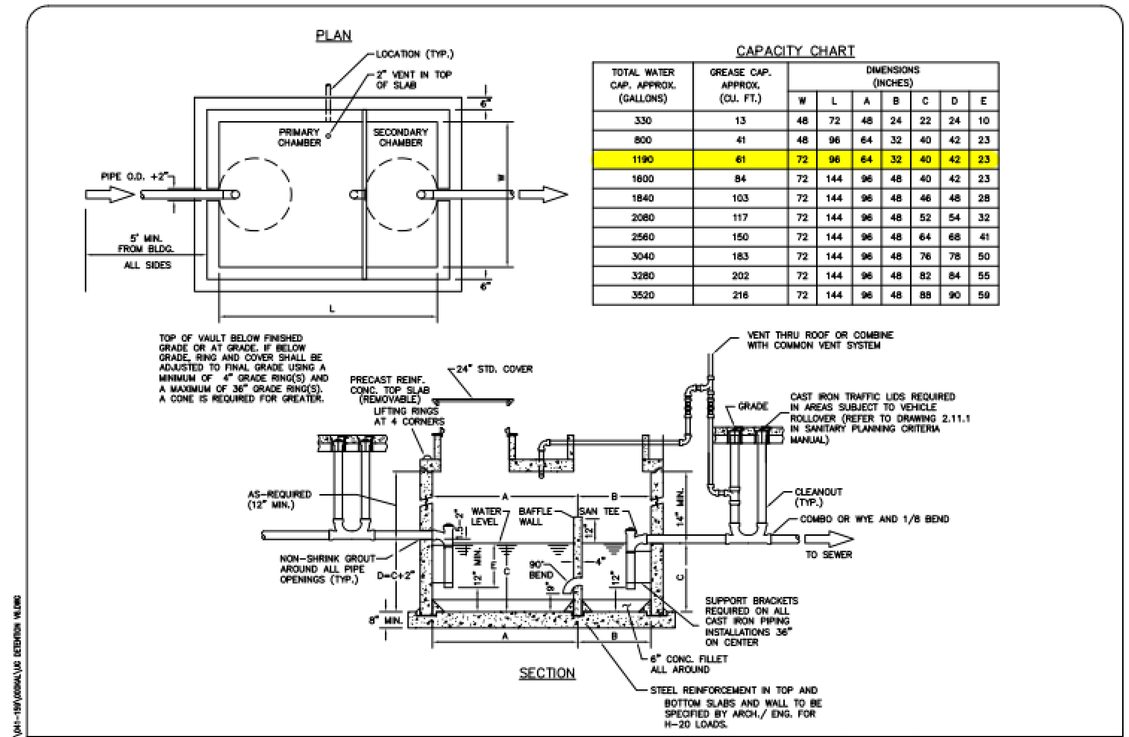
The minimum interceptor size for your project is 800 gallons

Is the information shown incorrect? Enter the correct value above and select "Update Information" below

Update Information

Create Printer-Friendly Version

2 P120 **SANITARY GREASE INTERCEPTOR CALCULATION**
NOT TO SCALE



CAPACITY CHART

TOTAL WATER CAP. APPROX. (GALLONS)	GREASE CAP. APPROX. (CU. FT.)	DIMENSIONS (INCHES)						
		W	L	A	B	C	D	E
330	13	48	72	48	24	22	24	10
800	41	48	96	64	32	40	42	23
1190	61	72	96	64	32	40	42	23
1600	84	72	144	96	48	40	42	23
1840	103	72	144	96	48	46	48	28
2080	117	72	144	96	48	52	54	32
2560	150	72	144	96	48	64	68	41
3040	183	72	144	96	48	76	78	50
3280	202	72	144	96	48	82	84	55
3520	216	72	144	96	48	88	90	59

Grease Interceptor

REVISED		CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS WASTEWATER MANAGEMENT DIVISION
BY	DATE	Grease Interceptor
		ISSUE DATE JAN. 2013

3 P120 **SANITARY GREASE ITERCEPTOR DETAIL**
NOT TO SCALE

Consultant:
LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
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COLORADO REGISTERED JOSEPH G. THOMAS 34886 PROFESSIONAL ENGINEER
Date: 09/09/2024
Exp. Date:

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RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

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Drawn: Author
Checked: Checker

Project No.
CMG-4882

Contents:
PLUMBING PLAN GREASE INTERCEPTOR

P120 2

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	COUNT	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE FIXTURE UNITS
				MANUFACTURER	MODEL			CW	HW	WASTE	CW	HW	TOTAL	
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			0	0	0	
BFP-2	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-207	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE AND AIR GAP FITTING	1	1 1/2"			0	0	0	
DM-1	DISH SANITIZING MACHINE (VENTLESS & PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER, VENTLESS ACCESSORY, AND PUMPED OUTLET	1	1/2"	3/4"	5/8"	1	3	3	7
DN-1	DOWNSPOUT NOZZLE	GC	GC	WATTS	RD-950	STAINLESS STEEL DOWNSPOUT COVER WITH PERFORATED HINGED STRAINER	2			3"				
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0		0	
FCO-2	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	5			4"				0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	5	1/2"		2"				2
FD-2	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-4-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	1	1/2"		4"				6
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"				2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	6			3"				5
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	2	1/2"	1/2"		2.25	2.25	3	
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	SILL FAUCET WITH NPT FEMALE INLET	1	1/2"			1.5		1.5	
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2			2"				1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	2	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	3	1/2"	1/2"	2"	1.5	1.5	2	1
IM-1	ICE MAKER - BOH	KES	KES	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)	1	1/2"			1		1	
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (REMOTE AIR COOLED)	1	1/2"			1		1	
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND NPT FEMALE INLET	1	3/8"			1.5		1.5	
RD-1	ROOF DRAIN (PRIMARY)	GC	GC	WATTS	RD-103	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET	2			3"				
RD-2	ROOF DRAIN (OVERFLOW)	GC	GC	WATTS	RD-103-W	EPOXY COATED CAST IRON OVERFLOW ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL 4 IN. (102MM) HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYTHYLENE DOME, AND NO HUB OUTLET	2			3"				
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"			1		1	
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	SPS	SPS	SEE ARCH	--	SODA CARBONATOR(S) SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.	1	1/2"			1		1	
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	Z886 8601 8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"				2
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	2	1/2"			0		0	
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -RA TO THE MODEL #FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	2		2	4
WH-1	FREEZE PROOF WALL HYDRANT (E)	GC	GC	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	2	3/4"			1		1	

WATER HEATER SCHEDULE

TAG	DESCRIPTION	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	FLA	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (ELECTRIC HEAT PUMP TANK)	14 kW	67 A	208/1/60	WHS	GC	A.O. SMITH	CHP-120	TANK VOLUME: 119 GALLONS RECOVERY: 129 GAL/HR @ 70°F RISE IN HYBRID MODE

Consultant:

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JOSEPH G. THOMAS
34886
PROFESSIONAL ENGINEER

Date: 09/09/2024
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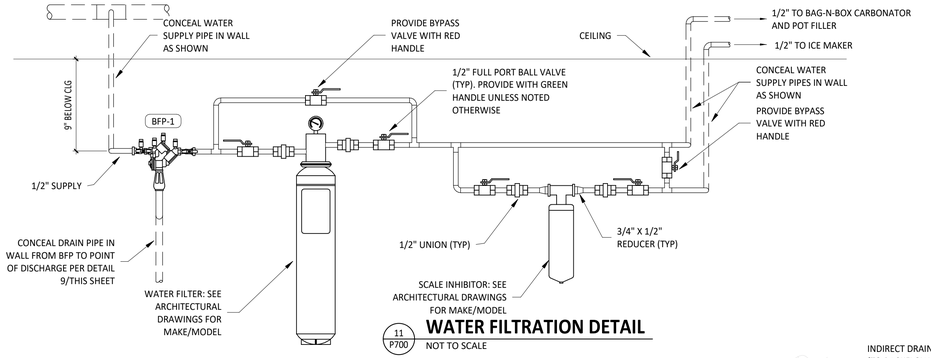
Drawn: VH
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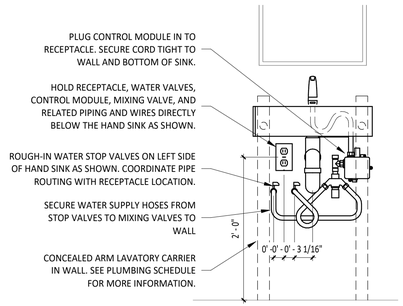
PLUMBING SCHEDULES

P600



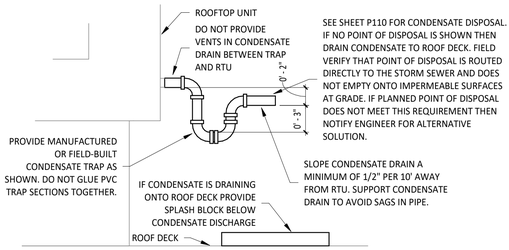
WATER FILTRATION DETAIL

11 / P700 NOT TO SCALE



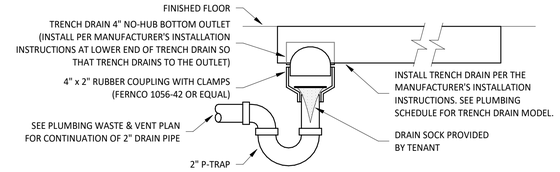
RESTROOM HAND SINK DETAIL

14 / P700 NOT TO SCALE



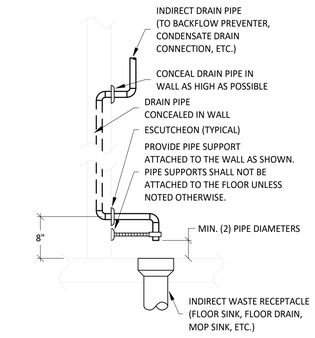
RTU CONDENSATE TRAP DETAIL

13 / P700 NOT TO SCALE



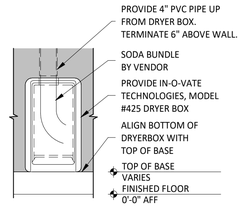
TRENCH DRAIN DETAIL

15 / P700 NOT TO SCALE



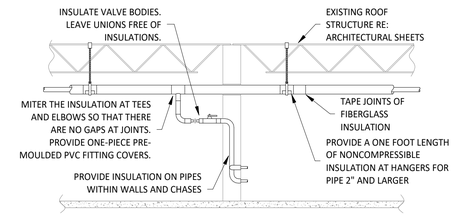
INDIRECT WASTE PIPING DETAIL

9 / P700 NOT TO SCALE



SODA TERMINATION DETAIL

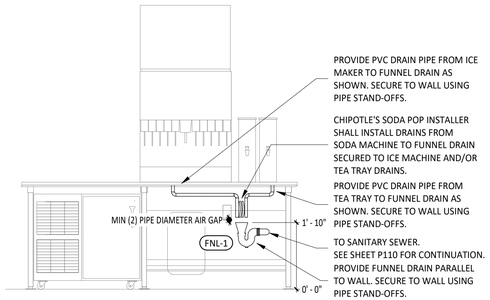
12 / P700 NOT TO SCALE



PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.
PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.12.3. PER DENVER MECHANICAL CODE.

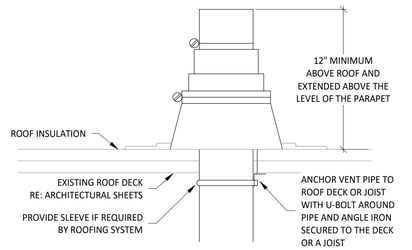
PIPE INSULATION DETAIL

8 / P700 NOT TO SCALE



PUW FUNNEL DRAIN DETAIL

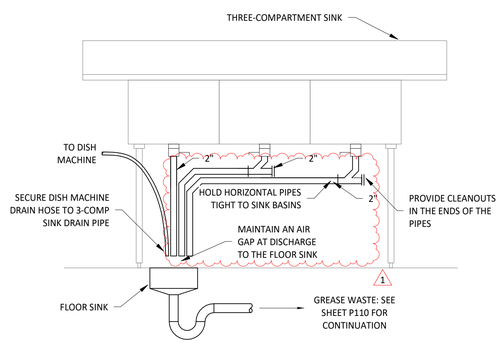
7 / P700 NOT TO SCALE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.

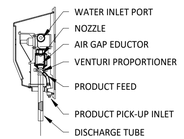
VENT THROUGH ROOF

3 / P700 NOT TO SCALE



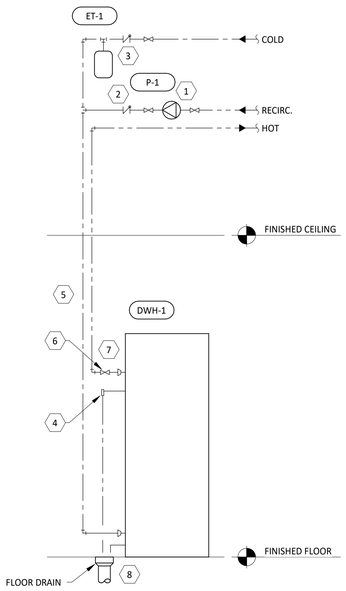
WARE-WASHING SINK DETAIL

2 / P700 NOT TO SCALE



CHEMICAL DISPENSER DETAIL

10 / P700 NOT TO SCALE



WATER HEATER DETAIL NOTES

1. PROVIDE RECIRCULATION PUMP P-1 AS SHOWN. SUPPORT PUMP FROM WALL OR STRUCTURE ABOVE. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT A DEMAND FOR HOT WATER. THE CONTROLS SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD WATER PIPING TO NOT GREATER THAN 104°F (40° C).
2. PROVIDE LINE-SIZE CHECK VALVES IN COLD AND RECIRCULATION WATER PIPES AS SHOWN.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
5. INSULATE EXPOSED AND CONCEALED HOT AND COLD WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
6. PROVIDE LINE-SIZE BALL VALVES IN COLD AND HOT WATER PIPES AS SHOWN.
7. IF THE COLD OR HOT PIPE LINE SIZE AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
8. PIPE PRESSURE RELIEF VALVE DISCHARGE TO THE FLOOR DRAIN. DRAIN THROUGH AN AIR GAP.

WATER HEATER GENERAL NOTES

A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F. VERTICAL WATER PIPES CONNECTING TO THE INLET AND OUTLET OF THE TANK SHALL BE PROVIDED WITH INTEGRAL HEAT TRAPS AT THOSE INLETS AND OUTLETS OR SHALL HAVE PIPE-CONFIGURED HEAT TRAPS IN THE PIPING CONNECTED TO THOSE INLETS AND OUTLETS. TANK INLETS AND OUTLETS ASSOCIATED WITH SOLAR WATER HEATING SYSTEM CIRCULATION LOOPS SHALL NOT BE REQUIRED TO HAVE HEAT TRAPS.

WATER HEATER DETAIL

1 / P700 1/4" = 1'-0"

Consultant:

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Contents:

PLUMBING DETAILS

P700

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 5/6/2024

GENERAL		RESPONSE	SUBMITTER NOTES	
Indicate if the project scope includes any of the following	New construction (Y/N):	Y		
	Addition (Y/N):	N		
	Change of occupancy or use (Y/N):	N		
	Tenant build out (Y/N):	Y		
	Tenant finish in a previously occupied space (Y/N):	N		
	Core and shell only (Y/N):	N		
	New parking (Y/N):	Y		New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		2,400 GROSS 2,225 NET NT SHELL/TENANT FINISH		
Property type	Is this an all-electric property? (Y/N):	Y	E SERIES SHEETS	**ALL-ELECTRIC PROPERTY.** A property on a single assessment parcel with an accompanying legally described area of land as shown on a site plan, that, except for emergency power systems and standby power systems : 1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for *fuel gas* or fuel oil or fuel gas utility connection, installed within the *building*(s) or *site* ; or, 2) Contains at least one new stand-alone all-electric building where the property includes existing *fuel gas* or fuel oil infrastructure built under a code effective prior to May 1, 2023
ENERGIZE DENVER				
C103.2.3	Final 2030 target EUI required by Energize Denver	Enter the final 2030 target EUI required by Energize Denver (Art. XIV, Ch. 10 (Buildings and building regulations), DRMC) applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver Building Energy Performance Requirements document available from the Office of Climate Action, Sustainability and Resiliency. Applies to buildings 25,000 sf and larger.	N/A		Enter EUI in Response box. Indicate location of: - Supplemental calculations if applicable - See Technical Guidance for Target Adjustments Appendix A 2030 Targets

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.1.1.5	Building Thermal Envelope Performance Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado-registered design professional or approved agency and a final commissioning report provided.	Y	G0720 - WEATHER BARRIERS, G012, A420 - A429	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & M010	Indicate location of: - Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & P010	Indicate location of: - Letter with qualifications of the of the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G001 & G001.2	Indicate location of: - Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	Per new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1 Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C405.14 / APPENDIX CB - SOLAR ACCESS					
C405.14 CB 103.1 CB 103.3 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low slope roofs (2:12). Solar ready zone to be no less than 60% of roof area and no side shall be less than 5 feet in length. No obstacles or shading from vents, ducts, pipes, HVAC equipment, skylights, and roof-mounted equipment shall be located in the solar-ready zone.	Y	A140	Indicate location of: - Calculations showing roof area per C405.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zones on drawings and indicate the roof pitch, number of stories in height above grade plane, and orientation - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar-ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system-ready area shall not be less than 2 feet by 4 feet on either dimension.	Y	A110, A130	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system-ready area
C405.9 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalator.	Indicate location of: - Escalator and moving walkway specifications

Version 1.6 Dated March 1, 2024

05.08.2024

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - Service Water Heating

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 4/23/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
ALL COMPLIANCE PATHS					
C404.10	Water Heaters	**For permit applications submitted after January 1, 2024,** fossil fuel and electric resistance water heaters shall not be permitted to provide potable hot water. See exceptions to C404.10.	P600	heat pump water heating equipment.	Indicate location of: - Rationale for exceptions to C404.10
C404.11	Demand Responsive Water Heating	Provide demand responsive controls for electric storage water heaters greater than or equal to 40 gallons and less than or equal to 120 gallons and nameplate rating less than 12 kW.	N/A	Nameplate ring 14 kW.	Indicate location of: - Electric storage water heater product and loop temperature - Sequence of operations for demand response
C404.12	Water Heating Equipment Location	Provide electric infrastructure for fossil fuel equipment where required by Section C405.15. Water heaters shall be located in a space that meets requirements in C404.12	N/A	heat pump water heating equipment.	Indicate location of: - Water heating equipment location
C503.4.1	Alteration: Electrification for Service Water Heating	Where a gas-fired storage water heater or instantaneous water heater is replaced with another gas-fired storage water heater or instantaneous water heater, provide either an Electrification Retrofit Feasibility Report or testing of all gas piping connected to the gas meter serving the replaced gas-fired water heater per Section 406 of the IFGC. Equipment replaced as an emergency equipment replacement is exempt. Gas-fired boilers used for water heating are exempt.	N/A	New building.	Indicate selection / location of: - Electrification Retrofit Feasibility Report OR - Intent to test gas piping
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	M800-M801	SEE COMCHECK	Indicate location of: - COMcheck certificate and inspection checklist Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C404.2	Service Water Heating Equipment	Service water heating equipment including water heaters, hot water storage tanks, hot water supply boilers used for heating potable water, and pool heaters shall comply with Table C404.2	P600		Indicate location of: - Schedules for service water heating equipment with efficiencies
C404.2.1	High Input Service Water Heating Equipment	New buildings with total installed gas water-heating input capacity greater than or equal to 1,000,000 Btuh shall have minimum thermal efficiency of 92%. Where multiple pieces of equipment combined are greater than or equal to 1,000,000 Btuh, the combined input capacity-weighted average thermal efficiency shall be 90%. Refer to full code for exceptions.	N/A	heat pump water heating equipment.	Indicate location of: - Schedules for service water heating equipment with efficiencies - Combined input capacity-weighted average thermal efficiency calculation

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C406 SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.7.2	Recovered or Renewable Water Heating	Provide service water heating system energy source from waste heat recovery or on-site renewable energy water-heating systems for at least 30% of the building's annual hot water requirements. If C403.10.5 Heat Recovery for Service Water Heating is required, provide at least 70% of the building's annual hot water requirements. C406.7.1 Reduced Energy Use in Service Hot Water credits are available for the following use groups: Group R-1: Boarding houses, hotels or motels, Group I-2: Hospitals, psychiatric hospitals and nursing homes, Group R-2, Group E: Schools with full-service kitchens or locker rooms with showers, Group A-2: Restaurants, banquet halls and buildings containing food preparation areas, Group F: Laundries, Group A-3: Health clubs and spas OR buildings showing a service hot water load of at least 10% of total building energy loads from a C407 energy analysis.	N/A	Drain Water Heat Recovery Units not used.	Indicate location of: - Service water heating equipment - Supplemental calculations if applicable
C406.7.3	Efficient Fossil Fuel Service Hot Water	Provide service hot water equipment such that the combined input-capacity weighted-average equipment rating of all fossil fuel water-heating equipment in the building shall be not less than 95 percent Et or 0.95 Ef. Applies to specific occupancy groups per C406.7.1 as shown above. This option shall receive only half the listed credits for buildings required to comply with Section C404.2.1 for new buildings with input rating of the water-heating equipment is 1,000,000 Btu/h (293 kW) or greater.	N/A	heat pump water heating equipment.	Indicate location of: - Service water heating equipment - Supplemental calculations if applicable
C406.7.4	Heat Pump Service Hot Water	Where electric resistance water heaters are allowed, provide all service hot water system heating equipment using heat pump technology with a combined input-capacity weighted-average EF of 3.0. Air-source heat pump water heaters shall not draw conditioned air from within the building, except exhaust air that would otherwise be exhausted to the exterior. Applies to specific occupancy groups per C406.7.1 as shown above.	P600		Indicate location of: - Service water heating equipment - Supplemental calculations if applicable
C406.15	All-Electric Water Heating	All service water heating shall be provided by electric water heating equipment.	N/A	heat pump water heating equipment.	Indicate location of: - Electric water heating equipment Not available for all all-electric properties.

Version 1.6 Dated March 1, 2024
* Requirement for Prescriptive and Performance Paths

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C404.3	Heat Traps	Storage tank-type water heaters and hot water storage tanks shall have integral heat traps or provide heat traps on supply and discharge piping.	P700		Indicate location of: - Plumbing drawings with heat traps on supply and discharge piping or mechanical equipment schedules identifying integral heat traps
C404.4	Pipe Insulation	Pipe insulation shall comply with Table C403.12.3.	P700		Indicate location of: - Plumbing drawings that show pipe insulation thickness and conductivity
C404.5	Heated Water Supply Piping	The distance from the fixture to the source of heated water (service water heating equipment or recirculated pipe) shall comply with Sections C404.5.1 Maximum allowable pipe length method or C404.5.2 Maximum allowable pipe volume method.	P100		Indicate location of: - Plumbing drawings showing compliance with C404.5.1 including horizontal and vertical distance of the pipe from the fixture to the source of heated water - Plumbing drawings and calculations showing compliance with C404.5.2
C404.6.1	Circulation Systems	Provide controls for circulating hot water system pumps that automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is not a demand for hot water. The controls shall limit the temperature of the water entering the cold water piping to not greater than 104°F (40°C). Include demand recirculation controls per C404.6.1.1.	P100 P700		Indicate location of: - Plumbing drawings with pumps and controls - Sequence of operations
C404.6.2	Heat Trace	Any electric heat trace systems shall comply with IEEE 515.1. Provide controls for such systems that automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. Heat trace shall be turned off automatically when there is not a demand for hot water.	N/A	Heat trace not used.	Indicate location of: - Plumbing drawings with heat trace - Sequence of operations for heat trace
C404.6.3	Hot Water Storage	Controls on pumps that circulate water between a water heater and a heated-water storage tank shall limit operation of the pump from heating cycle startup to not greater than 5 minutes after the end of the cycle.	N/A	Controls for Hot Water Storage not used.	Indicate location of: - Plumbing drawings with storage tank - Sequence of operations for pump
C404.7	Drain Water Heat Recovery	Drain water heat recovery units shall comply with CSA B55.2. Potable waterside pressure loss shall be less than 10 psi (69 kPa) at maximum design flow. For Group R occupancies, the efficiency of drain water heat recovery unit efficiency shall be in accordance with CSA B55.1.	N/A	Drain Water Heat Recovery Units not used.	Indicate location of: - Plumbing drawings with drain water heat recovery
C404.8	Energy Consumption of Pools and Permanent Spas	Permanent pools and spas shall comply with Section C404.8. •Heater controlled by an integral on-off switch •Heater shall not have a continuous burning pilot light •Heaters and pumps shall have time switches or other control methods to automatically turn off and on •Outdoor heated pools shall have a vapor-retardant unless more than 75% of energy used for heating is from a heat pump or on-site renewable energy	N/A	Wit out Pools and Permanent Spas	Indicate location of: - Controls - Sequence of operations - Pool cover - Supplemental calculations if applicable

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Date: 09/09/2024
Exp. Date: 10/31/2025

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RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH — Checked: JT/SK

Project No.: CMG-4882

Contents:

COMPLIANCE CHECKLIST

P800

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE
PART 1 GENERAL
1.1 DEFINITIONS
A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw
1.2 USE CHARGES
A. General: Cost or use charges for temporary facilities are not chargeable to Tenant, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
1. Tenant's construction forces.
2. Occupants of Project.
3. Architect.
4. Engineer.
5. Testing agencies.
6. Personnel of authorities having jurisdiction.
B. Permanent Service: Coordinate with building Tenant and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.
1.3 NOTIFICATION
A. Coordinate with Tenant to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.
1.4 QUALITY ASSURANCE
A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Comply with OSHA standards and regulations.
PART 2 PRODUCTS
2.1 MATERIALS
A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
C. Main panelboard with disconnect.
D. Temporary lighting.
E. 120 volt receptacles with overcurrent protection.
F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.
1. Outdoor Locations: NEMA 250, Type 3R.
PART 3 EXECUTION
3.1 INSTALLATION
A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
3. Provide metal conduit enclosures or boxes for wiring devices.
4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
2. Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.
END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
1.2 QUALITY ASSURANCE
A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
1. Comply with UL 467.
PART 2 - PRODUCTS
2.1 GROUNDING CONDUCTORS
A. For insulated conductors, comply with Division 16 Section "Wiring Methods."
B. Material: Copper.
C. Equipment Grounding Conductors: Insulated with green-colored insulation.
D. Grounding Electrode Conductors: Stranded cable.
E. Bare Copper Conductors: Comply with the following:
1. Solid Conductors: ASTM B 3.
2. Assembly of Stranded Conductors: ASTM B 8.
2.2 CONNECTOR PRODUCTS
A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.
PART 3 - EXECUTION
3.1 APPLICATION
A. Use only copper conductors.
B. In raceways, use insulated equipment grounding conductors.
C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
3.2 EQUIPMENT GROUNDING CONDUCTORS
A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3.3 INSTALLATION
A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
3.4 CONNECTIONS
A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
END OF SECTION 16060

SECTION 16100 - WIRING METHODS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.
PART 2 - PRODUCTS
2.1 WIRES AND CABLES
A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.
2.2 RACEWAYS
A. Wireways: Screwed cover type, with manufacturers standard finish.
B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.
C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.
2.3 ENCLOSURES
A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install wires and cables according to the NECA's "Standard of Installation.
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
K. Stub-up Connections for Equipment: Extend conductors to equipment with rigid metal conduit; flexible metal conduit may be used 3 inches above the floor.
L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.
3.2 IDENTIFICATION MATERIALS AND DEVICES
A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
C. Identify raceways and cables with color banding as follows:
1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
3. Colors: As follows:
a. Telecommunication System: Green and yellow.
D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

		120/208V	277/480V
1.	Phase A:	Black	Brown
2.	Phase B:	Red	Orange
3.	Phase C:	Blue	Yellow
4.	Neutral:	White	Gray
5.	Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NEMA WD 1.
C. Comply with NFPA 70.
PART 2 - PRODUCTS
2.1 DEVICES
A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
B. Color: Per Material Schedule on sheet E010.
C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
E. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.
F. Snap Switches: Heavy-duty, quiet type.
G. Wall Plate: Per Material Schedule on sheet E010.
H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install devices and assemblies plumb and secure.
B. Mount devices flush with long dimension vertical unless otherwise indicated.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete and paint is cured.
END OF SECTION 16140

ALL WORK SHALL COMPLY WITH THE 2023 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND 2022 DENVER BUILDING CODE AMENDMENTS.

SECTION 16442 - PANELBOARDS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1.
PART 2 - PRODUCTS
2.1 PANELBOARDS AND LOAD CENTERS
A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
a. Square D Co.
b. Eaton Corp.; Cutler-Hammer Products.
c. General Electric Co.; Electrical Distribution & Control Div.
d. Siemens Energy & Automation.
B. Recessed, NEMA PB 1, Type 1.
1. Load Center Capacity: as shown on drawings.
2. Front: Secured to box with concealed trim clamps.
3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
4. Bus: Hard drawn copper of 98 percent conductivity.
C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
D. Contactors: NEMA ICS 2, Class A combination contactors.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permantently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.
END OF SECTION 16442

SECTION 16500 - LIGHTING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.
PART 2 - PRODUCTS
2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL
A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.
B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.
C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Set units level, plumb, and square with ceiling and walls, and secure.
B. Support for Recessed and Semirecessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.
END OF SECTION 16500

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- X/Y/Z — DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
- JUNCTION BOX
- ELECTRIC PANELBOARD
- GENERAL PURPOSE 1-POLE SWITCH
- M — MANUAL STARTER WITH PILOT LIGHT
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX GFCI RECEPTACLE
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
- IG/GFI — NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#2095IGTRGRY (GRAY)
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- KP — SECURITY SYSTEM KEYPAD: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.

ELECTRICAL GENERAL NOTES

A GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
B ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
D INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
E CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
F INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
G INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
H PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
I THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
J DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
K PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES.
L BRANCH CONDUCTORS ARE DESIGNED BASED ON A DISTANCE OF 100' TO MEET THE 3% VOLTAGE DROP PER NEC. IF BRANCH CIRCUIT IS BETWEEN: 100' TO 150' - E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN. 150' TO 200' - E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN. 200' TO 250' - E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN.
M SERVICE CONDUCTORS ARE DESIGNED BASED ON A DISTANCE OF 100' TO MEET THE 2% VOLTAGE DROP PER NEC. IF BRANCH CIRCUIT IS BETWEEN: 100' TO 150' - E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN. 150' TO 200' - E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN. 200' TO 250' - E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN.

ELECTRICAL MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS		
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	FIELD-MADE CORD (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SJO SERVICE CORD WITH CU CONDUCTORS
CONDUITS		
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
WIRING DEVICES		
	IG OR IG/GFI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL, RICHLITE, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE

ELECTRICAL ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GFCI	GROUND FAULT CURRENT INTERRUPTER
GYP	GYPSUM BOARD
IG	ISOLATED GROUND
NF	NON-FUSED
NL	NIGHT LIGHT
NTS	NOT TO SCALE
O/H	OVERHEAD
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WIC	WALK-IN COOLER
WP	WEATHERPROOF

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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Contents:
ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3	A	30	DINING DECORATIVE	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL PANEL SCHEDULE NOTES
A. DUPLICATE PANEL SCHEDULE AND PERMENANTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
(OS)	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR	1	TLS	GC	ACUITY	CM-PDT-9	WHITE DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR
(PP)	CEILING MOUNTED POWER PACK	1	TLS	GC	ACUITY	PP-20	POWER PACK
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8FCR MVOLT HLK FM DTC CPTLE1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH	2	TLS	GC	ACUITY	nPODMA 4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
OC $	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	2	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING
LOC	WALL-MOUNTED LINE VOLTAGE LOW TEMPERATURE OCCUPANCY SENSOR	1	TLS	GC	LEGRAND	CB-100	LOW TEMPERATURE PASSIVE INFRARED OCCUPANCY SENSOR

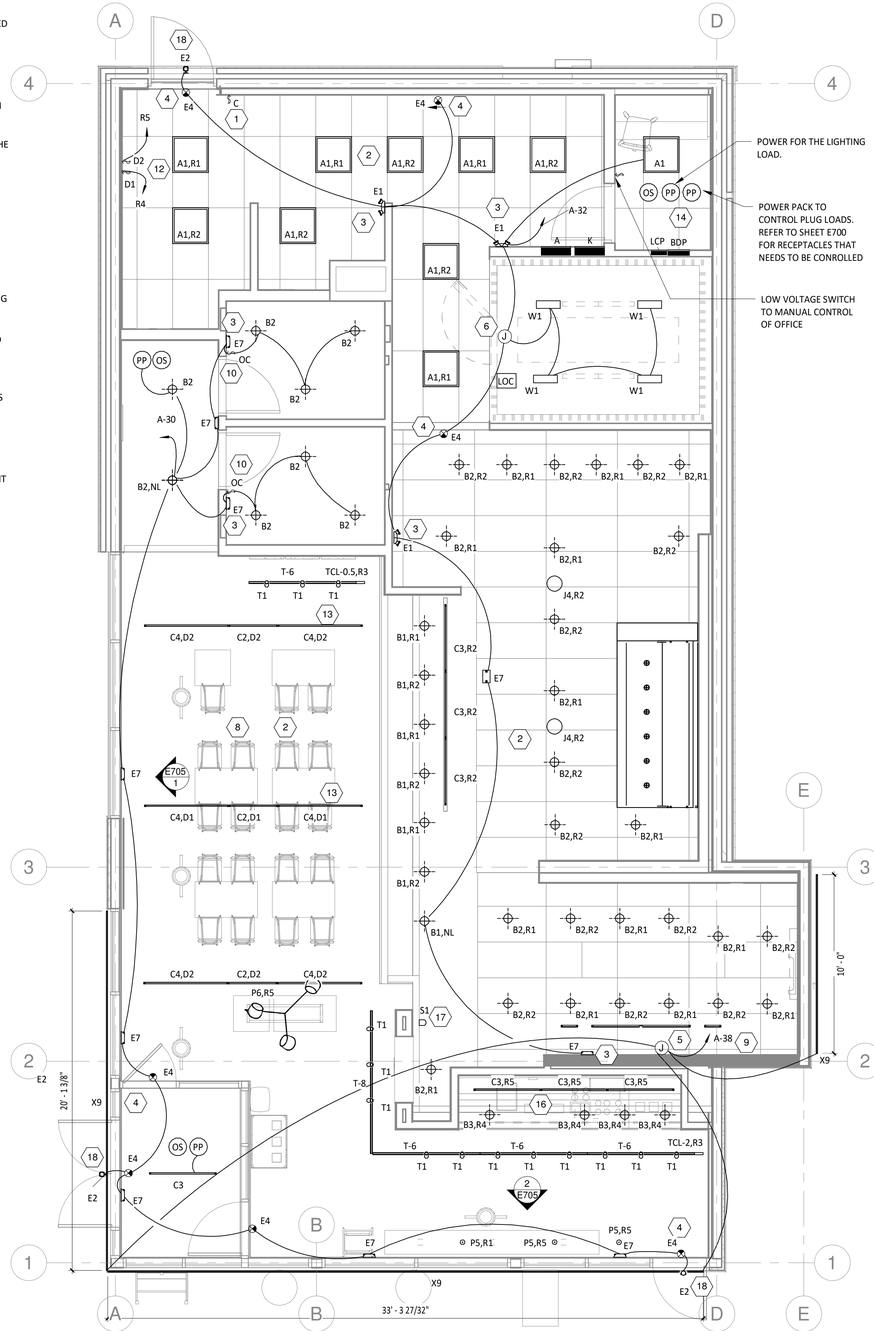
LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN			REMARKS
								MANUFACTURER	MODEL	LAMP	
A1	10	2x2 LED LENSED TROFFER	LAY-IN	120 V	30 W	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL W/ NTM-57W/M1 TRIM	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27 K-25D LED (25°-2700K) W/ GU 24 BASE	
B2	36	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	120 V	5 W	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	5	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	10	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	6	LOW PROFILE LED - 5 FT	SURFACE	120 V	18 W	TLS	GC	HERA LIGHTING	EL/LED/59/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	3	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E2	4	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	4 V	1 W	TLS	GC	EXITRONIX	MLED1-B-WP	INTEGRAL LED	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	7	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD GREEN LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	GCLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	10	EMERGENCY LIGHT	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
H1	12	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	HS/TLS	HS	FURNISHED W/ HOOD	FURNISHED W/ HOOD	(1) TCP L16A19N1527K	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	TLS	GC	BARNLIGHT	BLE-C-CPT10-ASH-100-SBK-100-CAW	GREEN CREATIVE 9A19DIM/927/GU24/R	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P5	3	PENDANT	PENDANT	120 V	5 W	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	TLS	GC	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	16 V	0 W	TLS	GC	FEDERAL SIGNAL	SLM500B W/ SLMBW-012-024	INTEGRAL	SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00111)
T1	14	TRACK HEAD	TRACK	120 V	10 W	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 6FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-8	1	TRACK (8 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 8FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.5	1	TRACK CURRENT LIMITER (60W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
TCL-2	1	TRACK CURRENT LIMITER (240W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
W1	4	WIC LED LIGHT	SURFACE	120 V	29 W	WCS	GC	FURNISHED W/ WIC	FURNISHED W/ WIC	INTEGRAL LED	WET-RATED COOLER FIXTURE
X1	1	LED WALL PACK	SURFACE	120 V	14 W	TLS	GC	RAB LIGHTING	WPLED10N	LED	
X2	7	LED AREA LIGHT 4 WAY	POLE	120 V	67 W	TLS	GC	COOPER LIGHTING	GLEON-AF-01-LED-E1-T 4W	INTEGRAL LED	
X3	2	LED PATIO POLE LIGHT	POLE	120 V	10 W	TLS	GC	RAB LIGHTING	ALED10Y	INTEGRAL LED	
X9	3	EXTERIOR LED CHANNEL LIGHT	SURFACE	120 V	1.1W/FT	TLS	GC	Q-TRAN	SD-SW24-1.0	LED	FURNISHED W/ REMOTE-MOUNTED NEMA 3R LED DRIVER. SEE PLAN FOR LENGTHS.

LIGHTING FIXTURE SCHEDULE NOTES
A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

1 INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710
2 FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3 WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE
4 VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5 INSTALL LED DRIVERS FURNISHED WITH THE X9 LED STRIP LIGHTS ON WALL 6" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM LED DRIVER TO THE X9 LIGHT FIXTURES AS SHOWN.
6 INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
7 NOT USED.
8 PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
9 CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.
10 INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
11 NOT USED.
12 INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED AND PENDANT LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
13 CONNECT DINING ROOM (RELAY CIRCUITS R4 AND R5) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
14 INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
15 NOT USED.
16 PENATRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
17 INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
18 INSTALL E2 REMOTE EMERGENCY LIGHT TO BOTTOM OF CANOPY. CONCEAL LOW VOLTAGE WIRING FROM EXIT SIGN TO REMOTE EMERGENCY LIGHT.



1 E100 **LIGHTING FLOOR PLAN**
1/4" = 1'-0"

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Project No.
05-5119

Contents:
ELECTRICAL LIGHTING PLAN

E100

ELECTRICAL POWER PLAN NOTES

1 SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700 . NO POINT ALONG THE TOP OF THE WINDOW SHALL BE FARTHER THAN 6TH FROM A RECEPTACLE OUTLET PER NEC 210.62.

2 ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

3 CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.

4 JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710.

5 PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.

6 HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

7 PROVIDE A DUPLEX GFCI RECEPTACLE WITH WEATHERPROOF WHILE IN USE OUTLET COVER FOR IRRIGATION CONTROLLER.

8 PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.

9 COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.

10 PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.

11 PROVIDE (2) EMPTY 2" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.

12 PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.

13 AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.

14 PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.

15 UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.

16 PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL BOOSTER.

17 INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.

18 ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

19 ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.

20 ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.

21 PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.

22 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".

23 LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."

24 PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.

25 CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).

26 INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.

27 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.

28 PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

29 PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

ELECTRICAL POWER PLAN NOTES

30 INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.

31 PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.

32 PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.

33 PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.

34 NOT USED.

35 INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TLS SURFACE-MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.

36 SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.

37 PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.

38 INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.

39 PROVIDE (2) 10"X10"X4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.

40 PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.

41 INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

42 CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.

43 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

44 PROVIDE RECEPTACLE FOR 2-DOOR AND 1-DOOR REFRIGERATORS WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.

45 PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.

46 LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".

47 LABEL RECEPTACLE "UV INSECT TRAP".

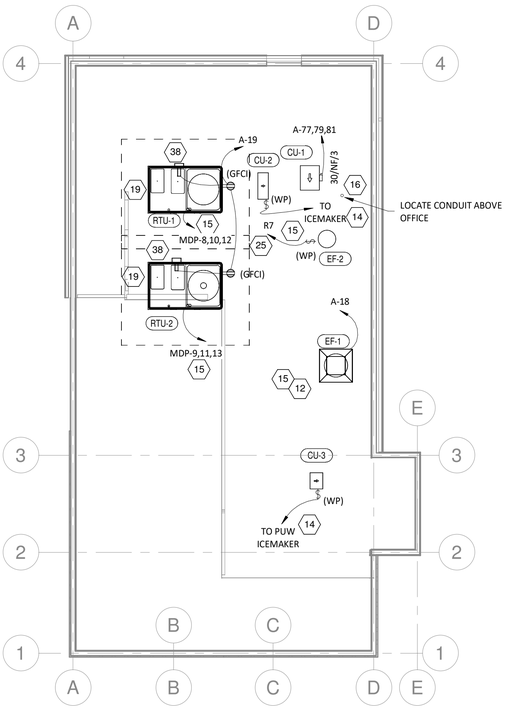
48 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.

49 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.

51 PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.

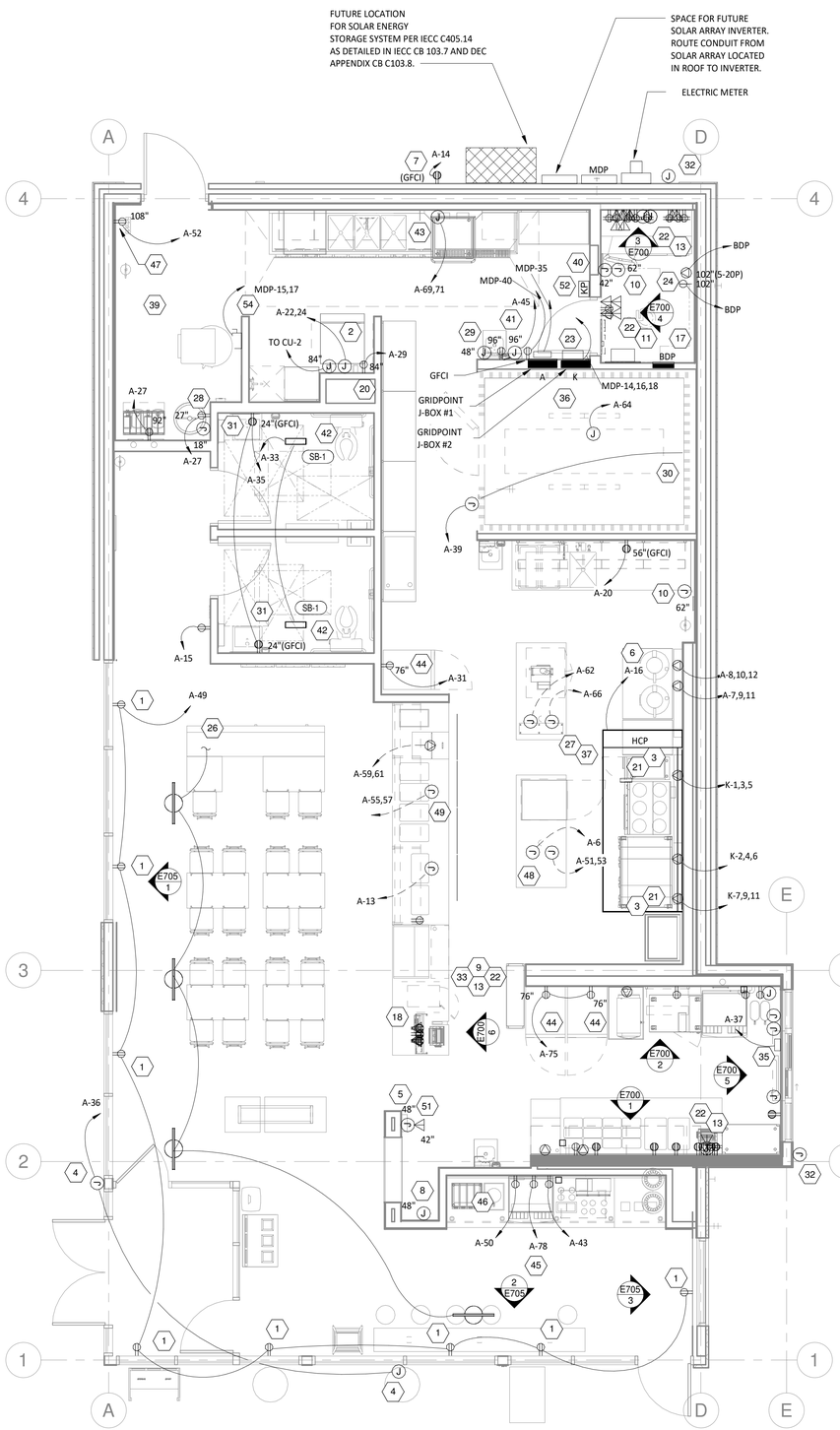
52 PROVIDE A RECESSED J-BOX AT 48" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 3/4" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA. TERMINATE CONDUIT WITH A CONDUIT BUSHING.

54 WATER HEATER 208V. 1PH. 67 MCA. COORDINATE EXACT REQUIREMENT WITH PLUMBING DRAWINGS.



2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"

ANY EXPOSED ELECTRICAL CONTROL PANELS SHALL BE PROVIDED WITH THE APPROPRIATE WORKING SPACE AND CLEARANCE BASED UPON THE PANEL SIZE.



1 E110 **POWER FLOOR PLAN**
1/4" = 1'-0"

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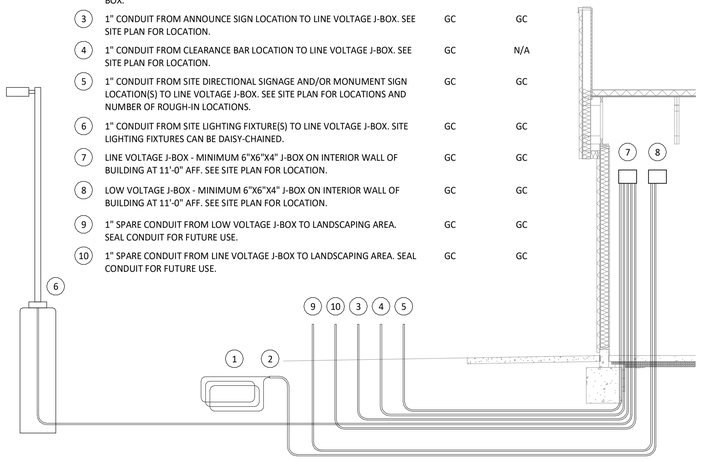
ELECTRICAL POWER PLAN

E110

TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6'x4' WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATION(S).	GC	GC
2	1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.	GC	GC
3	1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	GC
4	1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	N/A
5	1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.	GC	GC
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	GC	GC
7	LINE VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
8	LOW VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC

GENERAL NOTES

A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
C. PROVIDE PULL STRING IN EMPTY CONDUITS.
D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.

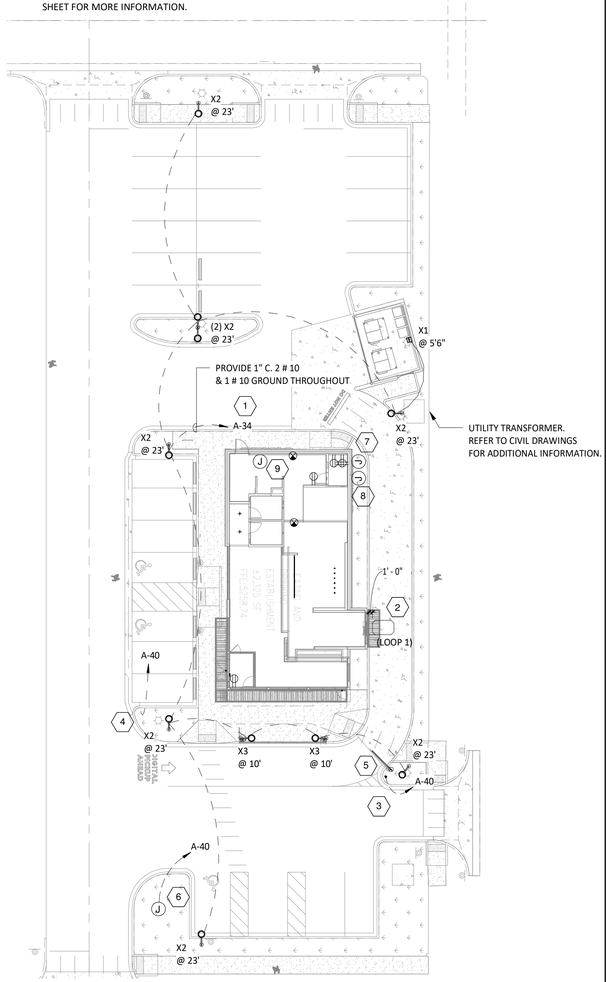


2 E115 **SITE CONDUIT DETAIL**
NOT TO SCALE

ELECTRICAL VEHICLE CHARGING SERVICE IS SEPRATED FROM THE BUILDING ELECTRICAL SERVICE.
THE EV ELECTRICAL SERVICE AND CHARGING IS UNDER A SEPARATE SUBMITTAL. THE REFERENCE NUMBER WILL BE PROVIDED ONCE THAT SUBMITTAL HAS BEEN MADE.

ELECTRICAL POWER PLAN NOTES

1 CONNECT EXTERIOR LIGHTING TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
2 INSTALL VEHICLE DETECTION LOOP FURNISHED BY TLS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
3 CONNECT ANNOUNCE SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
4 CONNECT DIRECTIONAL SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
5 PROVIDE EMPTY CONDUIT WITH PULL STRING TO CLEARANCE BAR. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
6 CONNECT MONUMENT SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
7 EXISTING 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
8 EXISTING 1" SPARE LINE VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
9 EXISTING INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.



1 E115 **POWER SITE PLAN**
1" = 20'-0"

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Contents:
ELECTRICAL SITE POWER PLAN

E115

Panel Name: BDP **Volts:** 120
Phases: 1 **Mains:** LUGS
Mounting: Recessed **Wires:** 2 **Ampera...** 20 A
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	Load
1	POS	15 A	1	0.2 kVA
2	DML - POS	15 A	1	0.2 kVA
3	DML - ORDERING SYSTEM	15 A	1	0.7 kVA
4	OFFICE - NETWORK GEAR	15 A	1	0.2 kVA
5	OFFICE - COMPUTER	15 A	1	0.4 kVA
6	OFFICE - DVR/ISP	15 A	1	0.7 kVA
		Total Load:		0.0 kVA
		Total Amps:		0 A

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Surface
ENCLOSURE: Type 3R
PANEL: MDP
MAINS: Do Not Use
AMPERAGE: 800 A
MCB RATING: 800 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	A	B	C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1							--	--								2
3	PROVESION FOR FUTURE ENERGY STORAGE SYSTEM	--	3		--	--		--	--		--		3	--	PROVISION FOR FUTURE SOLAR ELECTRIC	4
5									--		--					6
7	SPACE	--	1		--	--	--	22.1								8
9									22.1	C	183.7		3	200	AIR CONDITIONER - KITCHEN (RTU-1) (3-#2/0, #6 G. in 2" C.)	10
11	AIR CONDITIONER - KITCHEN (RTU-2) (3-#2/0, #6 G. in 2" C.)	200	3		183.7	C			22.1		22.1					12
13							22.1	14.0								14
15	WATER HEATER (2-#3, #8 G. IN 1 1/4" C.)	80	2		67.0	F		7.0	14.0	Spare; F	116.7	SHUNT	3	200	PANEL K (SHUNT TRIP BREAKER)	16
17									7.0		14.0					18
19							0.0	28.3								20
21	TVSS (4-#6, #10 G. IN 1" C.)	60	3		0.0	-		0.0	26.4	Spare; G; A; B; D; F; E	234.1		3	400	PANEL A	22
23									0.0		29.6					24
25	SPACE	--	1		--	--	--			--	--		1	--	SPACE FOR (400A-3P BREAKER)	26
27	SPACE	--	1		--	--		--	--	--	--		1	--	SPACE	28
29									0.0	--	--		1	--	SPACE	30
31	GRIDPOINT 3 PHASE METER (4-#12, #12 G. IN 3/4" C.)	20	3		0.0	G	0.0	--		--	--		1	--	SPACE	32
33								0.0	--							34
35	GRIDPOINT TRANSFORMER	20	1		1.5	G			0.2	--	--		3	--	SPACE	36
37							--	--								38
39	SPACE FOR 800A-3P MAIN BREAKER	--	3		--	--		--	0.2	G	1.5		1	20	SERVICE RECEPTACLE FOR ELECTRICAL PANELS	40
41										--	--		1	--	SPACE	42
43							--	--								44
45	SPACE FOR 800A-3P MAIN BREAKER	--	3		--	--		--	--	--	--		3	--	SPACE	46
47									--							48
							PHASE TOTAL [kVA]:			**86.5 kVA**	**91.7 kVA**		**94.9 kVA**			
							PHASE TOTAL [AMPS]:			**721 A**	**771 A**		**798 A**			

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	2 kVA	125.00%		2 kVA	
B	EXTERIOR LIGHTING	2 kVA	125.00%		2 kVA	**TOTAL CONNECTED kVA:** 273 kVA
C	COMFORT COOLING	132 kVA	100.00%	+ 25% LARGEST MOTOR	132 kVA	**TOTAL CONNECTED AMPS:** 758 A
D	COMFORT HEATING	4 kVA	100.00%		4 kVA	**TOTAL ESTIMATED kVA:** 231.0 kVA
E	MISC. MOTOR	2 kVA	100.00%		2 kVA	**TOTAL ESTIMATED AMPS:** 641 A
F	KITCHEN EQUIPMENT	122 kVA	65.00%		80 kVA	
G	RECEPTACLES	9 kVA	100.00%		9 kVA	

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Recessed
ENCLOSURE: Type 1
PANEL: A
MAINS: LUGS
AMPERAGE: 400 A
MCB RATING: 0 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1	FOODWARMER (DML) Calentador de alimentos (linea de fax)	20	1	GFCI	11.7	F	1.4	2.1								2
3	ICE MAKER (PUW) Maquina para hace hielo	20	1	GFCI	12.5	F		1.5	2.1	F	20.0	GFCI	2	30	HOT FOOD SERVER (DML) (2-#10, #10 N, #10 G. in 3/4" C.) Servidor de alimentos calientes (linea de fax)	4
5	SPARE	20	1		--	--			0.0	0.3						6
7							2.6	2.6		F	2.6	GFCI	1	20	REFRIGERATOR (COOK LINE) Refrigerador (linea para cocinar)	8
9	RICE COOKER (3-#10, #10 G. IN 3/4" C.)	30	3	GFCI	22.0	F		2.6	2.6							10
11									2.6	F	22.0	GFCI	3	30	RICE COOKER (3-#10, #10 G. IN 3/4" C.)	12
13	COLD TOP (SERVE LINE) Tabla fria (linea de servicio)	20	1	GFCI	12.0	F	1.4	0.0								14
15	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.2	0.2	F	0.3		1	20	IRRIGATION CONTROLLER	16
17	PANEL BDP	20	1		19.5	G			2.3	E	1.5		1	20	HOOD CONTROL POWER	18
19	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.3	G; E	0.4	1.4		E	11.6		1	25	HOOD EXHAUST FAN (EF-1)	20
21	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	20	1	GFCI	6.0	G		0.7	1.0	F	11.3		1	20	FOOD PREP TABLE Mesa para la preparación de alimentos	22
23	SECURITY/AUDIO Seguridad y audio	20	1		6.0	G			0.7	F	10.0		2	15	ICE MACHINE	24
25	TELEPHONE BACKBOARD El tablero del teléfono	20	1		1.5	G	0.2	0.0		--	--		1	20	SPARE	26
27	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.8	F		1.3	0.5	E	4.4		1	15	RESTROOM FAN (EF-3)	28
29	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F			0.2	0.6	A	5.0	1	20	LIGHTING - DINING ROOM Iluminación - Comedor	30
31	REACH-IN REFRIGERATOR Cuarto frigorífico	20	1	GFCI	5.0	F	0.6	1.1			A	9.2	1	20	LIGHTING - KITCHEN Iluminación - Cocina	32
33	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E			0.0	0.1	B	0.6	1	20	SITE LIGHTING	34
35	RECEPTACLES - RESTROOMS Receptáculos - Baños	20	1		3.0	G			0.4	0.4	B	3.0	1	20	SIGN LIGHTING Iluminación para letreros	36
37	VEHICLE DETECTOR	20	1		0.3	G	0.0	0.3			B	2.4	1	20	LIGHTING - EXTERIOR Iluminación - Exterior	38
39	WIC - DOOR SECTION	20	1		0.2	F			0.0	0.8	B	6.7	1	20	SITE SIGNAGE	40
41	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F				1.1	0.0	A; B	0.0	1	20	LIGHTING CONTROL PANEL	42
43	BUBBLER	20	1	GFCI	8.5	F	1.0	0.2				G	1.5	1	20	PICK-UP WINDOW	44
45	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFCI	9.0	G			1.1	2.1		D	20.2	2	25	PUW AIR CURTAIN (2-#10, #10 G. IN 3/4" C.)	46
47	RECEPTACLES - DML Receptáculos - Fax	20	1	GFCI	6.0	G				0.7	2.1					48
49	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		12.0	G	1.4	1.1				F	9.3	GFCI	1	20	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	50
51	CARVING STATION Estación para cortar carnes	20	2	GFCI	10.0	F			1.0	0.2		F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	52
53										1.0	0.0					54
55	HOT FOOD SERVER (SERVE LINE) (2-#10, #10 N, #10 G. in 3/4" C.) Servidor de alimentos	30	2	GFCI	20.0	F	2.1	0.0				--	--	GFCI	2	25	SPARE	56
57									2.1	0.0						58
59	TORTILLA PRESS (SERVE LINE) (2-#10, #10 N., #10 G. in 3/4" C.) Calentador de tortillas	20	2	GFCI	13.0	F					1.4	0.0				60
61							1.4	0.2				F	1.5	GFCI	1	15	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	62
63	ICE MAKER Máquina para hacer hielo	20	1	GFCI	0.0	F			0.0	0.2		F	1.5		1	20	WIC - EVAPORATOR	64
65	TORTILLA PRESS (DML) (2-#10, #10 G. IN 3/4" C.) Calentador de tortillas (linea del fax)	20	2	GFCI	13.0	F					1.4	1.4	F	11.3	GFCI	1	20	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	66
67							1.4	0.0				--	--		1	20	SPARE	68
69	DISH MACHINE (2-#10, #10 G. IN 3/4" C.) Lavavajillas	30	2	GFCI	25.0	F			2.6	0.0		--	--		1	20	SPARE	70
71											2.6	2.9	F	28.0	GFCI	2	30	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	72
73	UNDERCOUNTER COOLER (PUW)	20	1	GFCI	1.5	F	0.2	2.9								74
75	UPRIGHT REFRIGERATOR Refrigerador vertical	20	1	GFCI	10.0	F			1.2	1.1		F	9.2	GFCI	1	20	SODA SYSTEM DISPENSER (PUW)	76
77											1.1	1.4	F	12.0	GFCI	1	20	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	78
79	CU-1 (3-#10, #10 G. IN 3/4" C.)	15	3		9.4	F	1.1	1.2				F	10.0	GFCI	1	20	COLD TOP (DML) Tabla fria (linea de fax)	80
81									1.1	--		--	--		1	--	SPACE	82
83	SPACE	--	1		--	--				--	--	--	--		1	--	SPACE	84
							PHASE TOTAL [kVA]:			**28.3 kVA**	**26.4 kVA**		**29.6 kVA**			
							PHASE TOTAL [AMPS]:			**238 A**	**220 A**		**249 A**			

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	2 kVA	125.00%		2 kVA	
B	EXTERIOR LIGHTING	2 kVA	125.00%		2 kVA	**TOTAL CONNECTED kVA:** 84 kVA
C	COMFORT COOLING	0 kVA	0.00%	+ 25% LARGEST MOTOR	0 kVA	**TOTAL CONNECTED AMPS:** 234 A
D	COMFORT HEATING	4 kVA	100.00%		4 kVA	**TOTAL ESTIMATED kVA:** 61.9 kVA
E	MISC. MOTOR	2 kVA	100.00%		2 kVA	**TOTAL ESTIMATED AMPS:** 172 A
F	KITCHEN EQUIPMENT	66 kVA	65.00%		43 kVA	
G	RECEPTACLES	8 kVA	100.00%		8 kVA	

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Recessed
ENCLOSURE: Type 1
PANEL: K
MAINS: LUGS
AMPERAGE: 225 A
MCB RATING: 0 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1							5.4	4.7								2
3	PLANCHA (3-#6, #10 G. IN 3/4"C)	60	3		44.9	F			5.4	4.7						4
5										5.4	4.7					6
7							4.0	0.0								8
9	RANGE (3-#6, #10 G. IN 3/4"C)	50	3		32.9	F			4.0	0.0						10
11										4.0	0.0					12
13	SPACE	--	1		--	--	--	0.0								14
15	SPACE	--	1		--	--			--	0.0						16
17	SPACE	--	1		--	--					--	0.0				18
19	SPACE	--	1		--	--	--	--								20
21	SPACE	--	1		--	--		--	--							22
23	SPACE	--	1		--	--				--	--					24
25	SPACE	--	1		--	--	--	--								26
27	SPACE	--	1		--	--		--	--							28
29	SPACE	--	1		--	--				--	--					30
							PHASE TOTAL [kVA]:			**14.0 kVA**	**14.0 kVA**		**14.0 kVA**			
							PHASE TOTAL [AMPS]:			**117 A**	**117 A**		**117 A**			

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	0 kVA	0.00%		0 kVA	
B	EXTERIOR LIGHTING	0 kVA	0.00%		0 kVA	**TOTAL CONNECTED kVA:** 42 kVA
C	COMFORT COOLING	0 kVA	0.00%	+ 25% LARGEST MOTOR	0 kVA	**TOTAL CONNECTED AMPS:** 117 A
D	COMFORT HEATING	0 kVA	0.00%		0 kVA	**TOTAL ESTIMATED kVA:** 27.3 kVA
E	MISC. MOTOR	0 kVA	0.00%		0 kVA	**TOTAL ESTIMATED AMPS:** 76 A
F	KITCHEN EQUIPMENT	42 kVA	65.00%		27 kVA	
G	RECEPTACLES	0 kVA	0.00%		0 kVA	

PROVIDE INDIVIDUAL EXTERNAL CLASS A GFCI FOR 60A-3P AND (4) 50A-3P CIRCUIT BREAKERS

SHORT-CIRCUIT CALCULATIONS

1 AVAILABLE FAULT CURRENT AT THE SECONDARY OF TRANSFORMER 52,000 Amperes

2 C/T & METER

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 25 \times 52{,}000}{26{,}706 \times 2 \times 208}$$

$$= 0.2026$$

(Use 2 for parallel conductors)

$$M = \frac{1}{1+f} = \frac{1}{1+.2024} = 0.83148$$

SCA= 52,000 x 0.8316 = 43,237 Amperes

3 MDP

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 4 \times 43{,}237}{22{,}185 \times 2 \times 208}$$

$$= 0.032$$

(Use 2 for parallel conductors)

$$M = \frac{1}{1+f} = \frac{1}{1+0.032} = 0.969$$

SCA= 43,237 x 0.969 = 41,878 Amperes

4 PANEL A

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 15 \times 41{,}878}{22{,}965 \times 1 \times 208}$$

$$= 0.228$$

$$M = \frac{1}{1+f} = \frac{1}{1+0.228} = 0.814$$

SCA= 41,878 x 0.814 = 34,109 Amperes

5 PANEL K

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 15 \times 41{,}878}{12{,}844 \times 1 \times 208}$$

$$= 0.407$$

$$M = \frac{1}{1+f} = \frac{1}{1+0.407} = 0.711$$

SCA= 41,878 x 0.711 = 29,758 Amperes

Consultant:
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COLORADO REGISTERED GREGORY L. DOPP PE.0048644 PROFESSIONAL ENGINEER
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RUNWAY 35N
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Issue Record:

05/09/2024	PERMIT SET

Revisions:

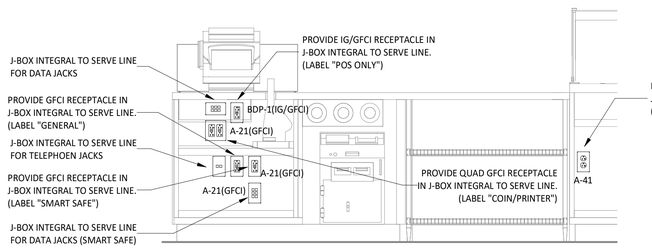
#		
1	08/02/2024	CITY COMMENTS
2	09/09/2024	ROUND 2 BUILDING COMMENTS
3	09/19/2024	ROUND 3 BUILDING COMMENTS

Drawn: SR Checked: DD

Project No. 05-5119

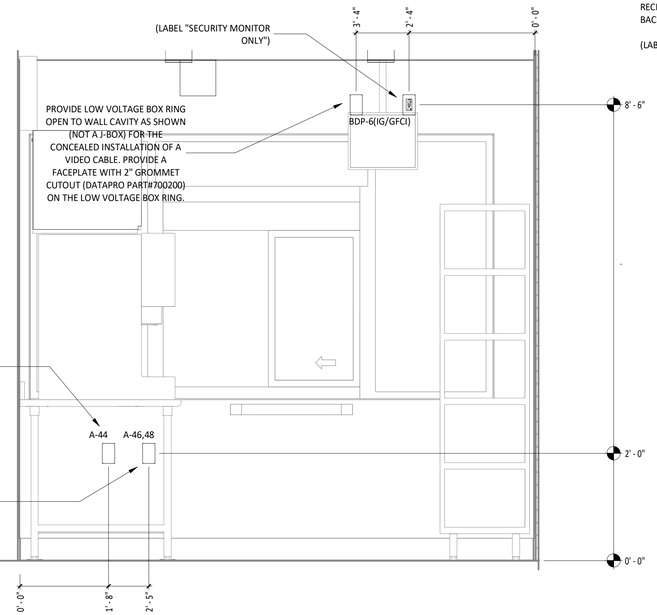
Contents: ELECTRICAL SCHEDULES

E600



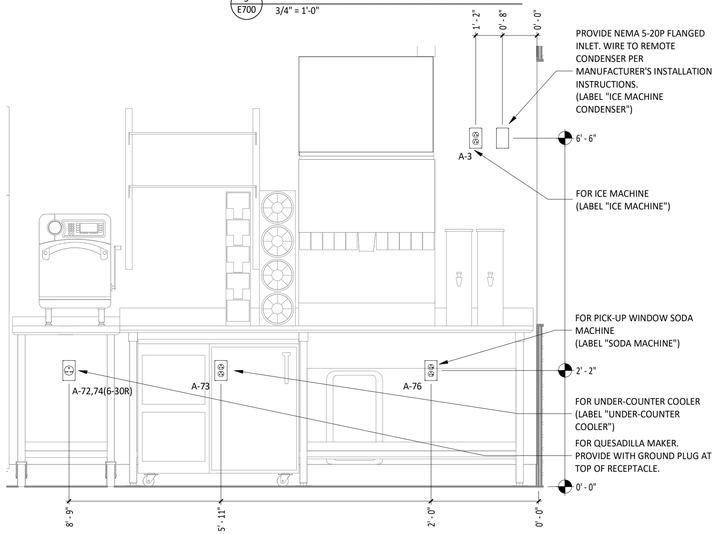
6 E700 POS COUNTER ELECTRICAL ELEVATION

3/4" = 1'-0"



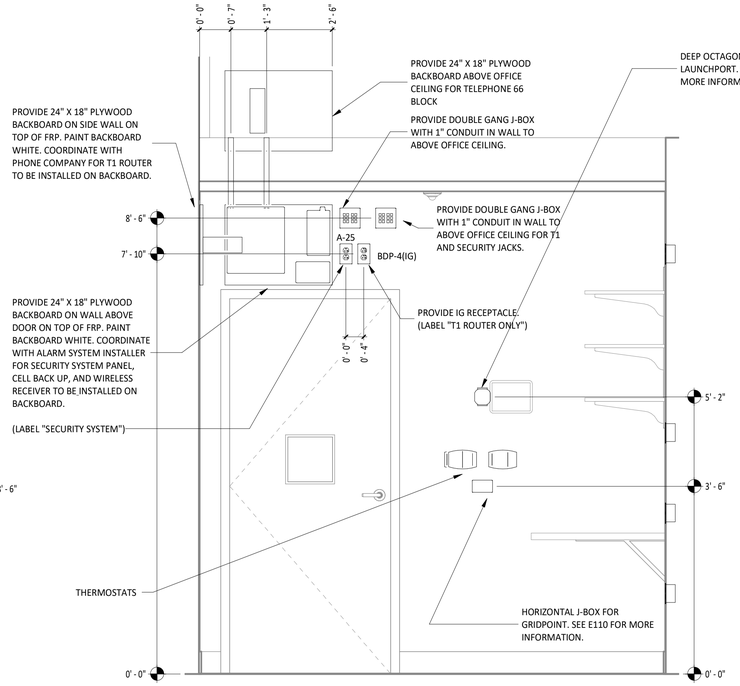
5 E700 PICK UP WINDOW ELEVATION

3/4" = 1'-0"



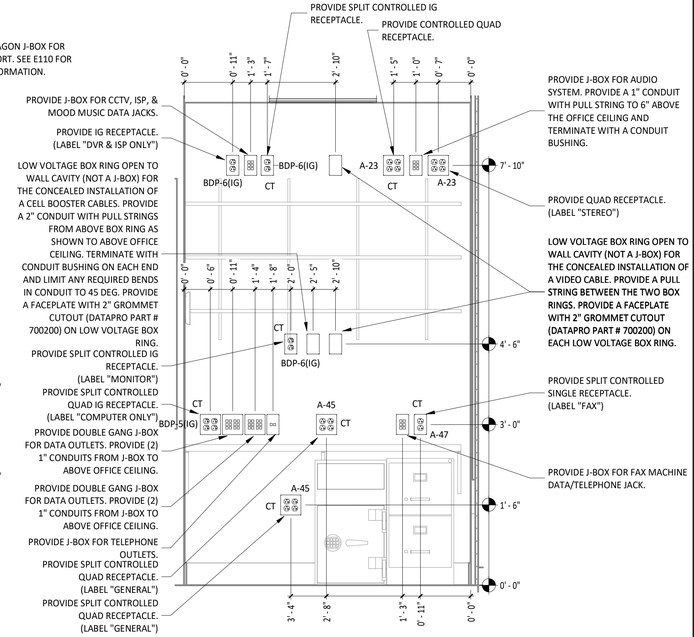
2 E700 PUW COLD SIDE ELECTRICAL ELEVATION

3/4" = 1'-0"



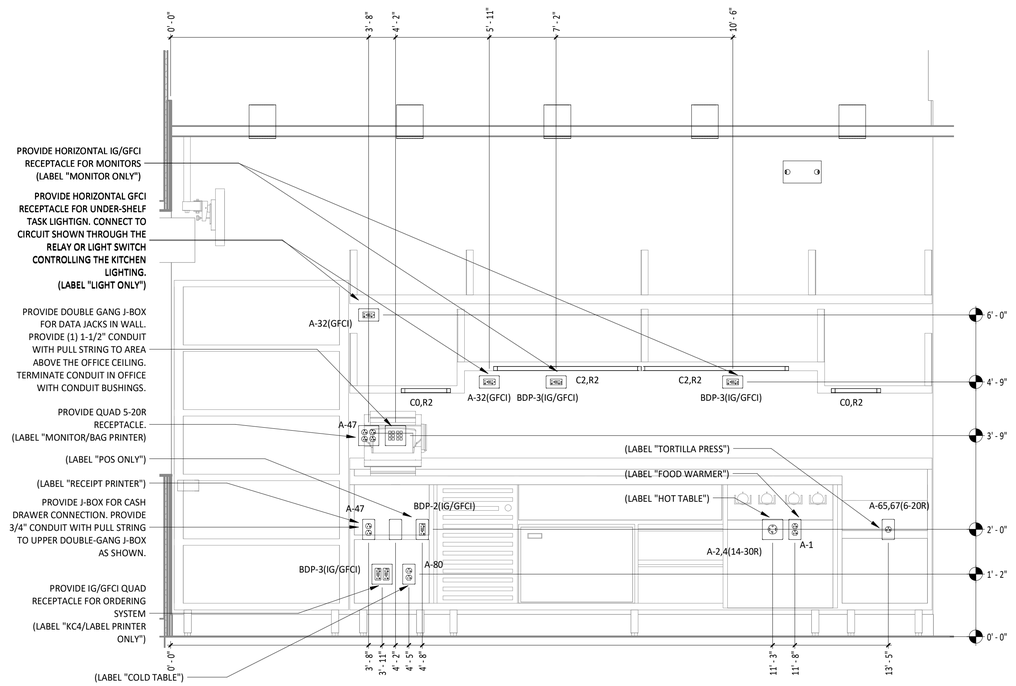
4 E700 OFFICE DOOR ELECTRICAL ELEVATION

3/4" = 1'-0"



3 E700 OFFICE DESK ELECTRICAL ELEVATION

3/4" = 1'-0"



1 E700 DML ELECTRICAL ELEVATION

3/4" = 1'-0"

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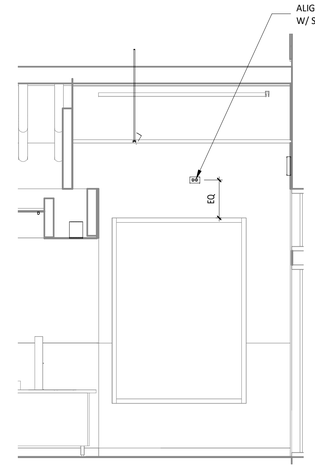
Revisions:
1 08/02/2024 CITY COMMENTS

Drawn: SR
Checked: DD

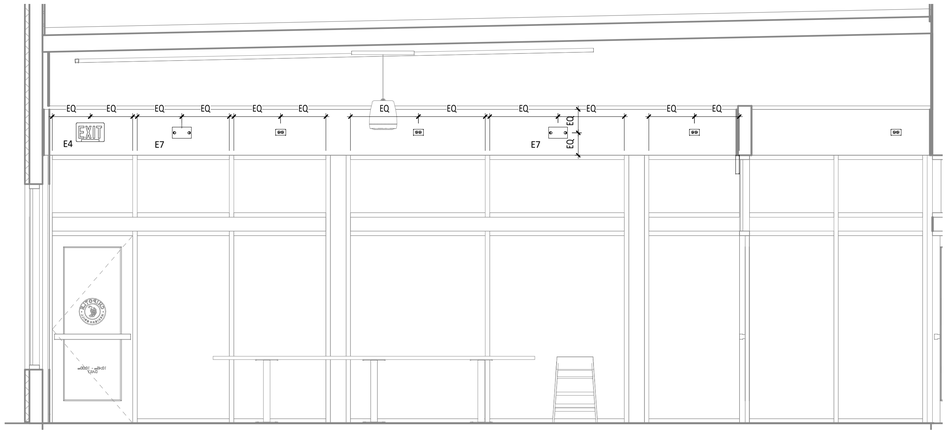
Project No.
05-5119

Contents:
ELECTRICAL INTERIOR ELEVATIONS

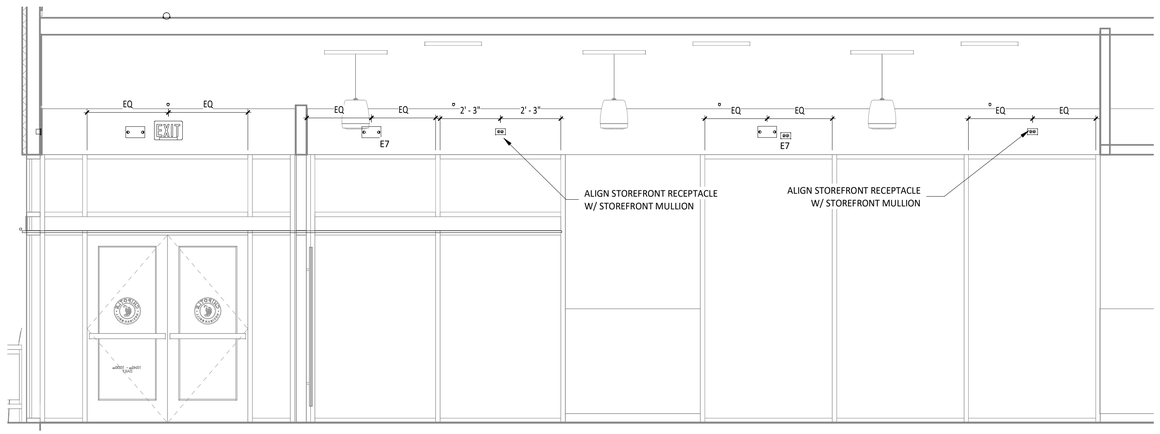
E700



3 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



2 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



1 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"

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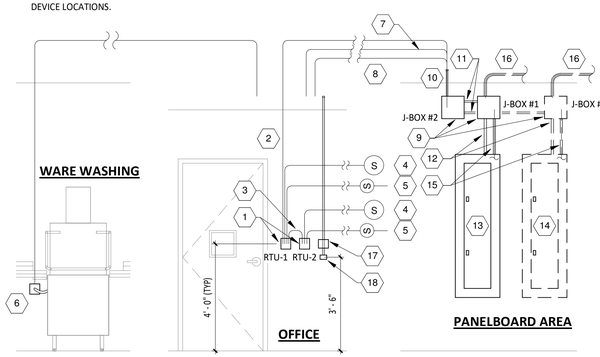
Contents:
ELECTRICAL INTERIOR ELEVATIONS

E705

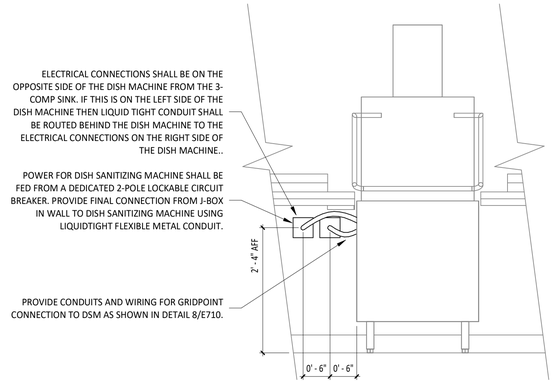
GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX # 1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

NOTE:
ARRANGEMENT SHOWN IS DIAGRAMMATIC - SEE PLANS FOR ACTUAL DEVICE LOCATIONS.



8 E710 GRIDPOINT WIRING DIAGRAM
NOT TO SCALE



ELECTRICAL CONNECTIONS SHALL BE ON THE OPPOSITE SIDE OF THE DISH MACHINE FROM THE 3-COMP SINK. IF THIS IS ON THE LEFT SIDE OF THE DISH MACHINE THEN LIQUID TIGHT CONDUIT SHALL BE ROUTED BEHIND THE DISH MACHINE TO THE ELECTRICAL CONNECTIONS ON THE RIGHT SIDE OF THE DISH MACHINE..

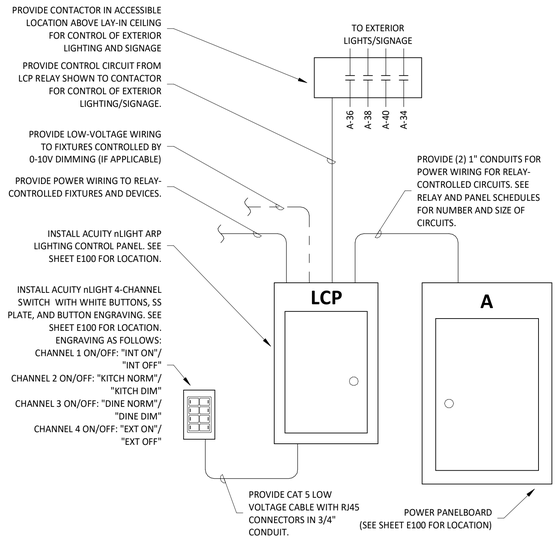
POWER FOR DISH SANITIZING MACHINE SHALL BE FED FROM A DEDICATED 2-POLE LOCKABLE CIRCUIT BREAKER. PROVIDE FINAL CONNECTION FROM J-BOX IN WALL TO DISH SANITIZING MACHINE USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

PROVIDE CONDUITS AND WIRING FOR GRIDPOINT CONNECTION TO DSM AS SHOWN IN DETAIL 8/E710.

7 E710 DISH SANITIZING MACHINE ELECTRICAL DETAIL
NOT TO SCALE

SEQUENCE OF OPERATIONS

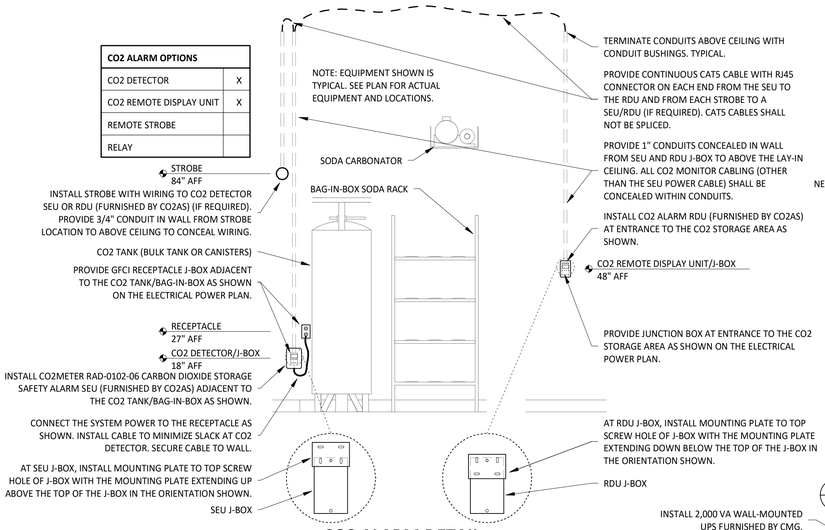
A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS (R4, R5, R6) SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. EXTERIOR LIGHTING/SIGNAGE RELAY (R8) SHALL BE ENERGIZED FROM AFTER SUNSET (PER IECC C405.2.7.1 LIGHT SHOULD BE OFF WHEN DAYLIGHT IS PRESENT) UNTIL ONE HOUR AFTER CLOSING AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
F. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITION. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R4, R5, R6, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAY R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAYS R5 AND R6 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
J. EXTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 4) RELAY R8 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
K. VERIFY THAT TIME, TIME ZONE, AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.



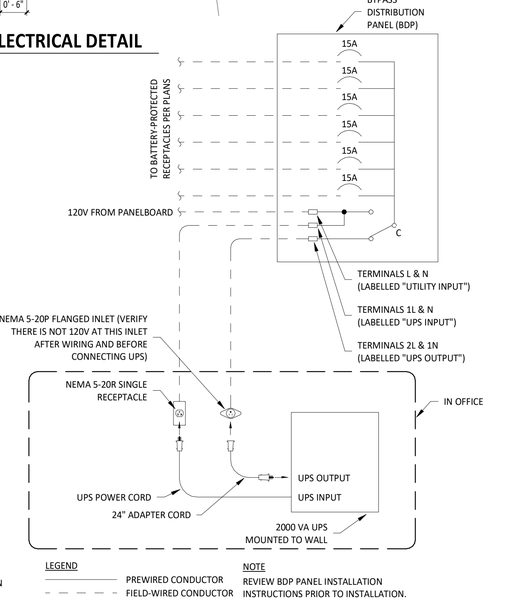
6 E710 LIGHTING CONTROL DIAGRAM
NOT TO SCALE

ALL WORK SHALL COMPLY WITH THE 2023 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND 2022 DENVER BUILDING CODE AMENDMENTS.

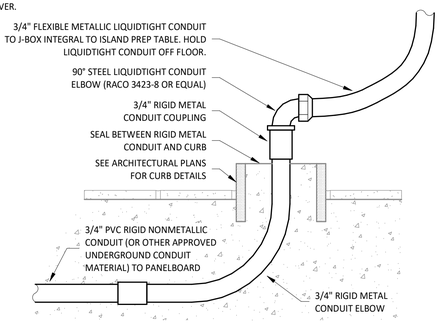
CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	



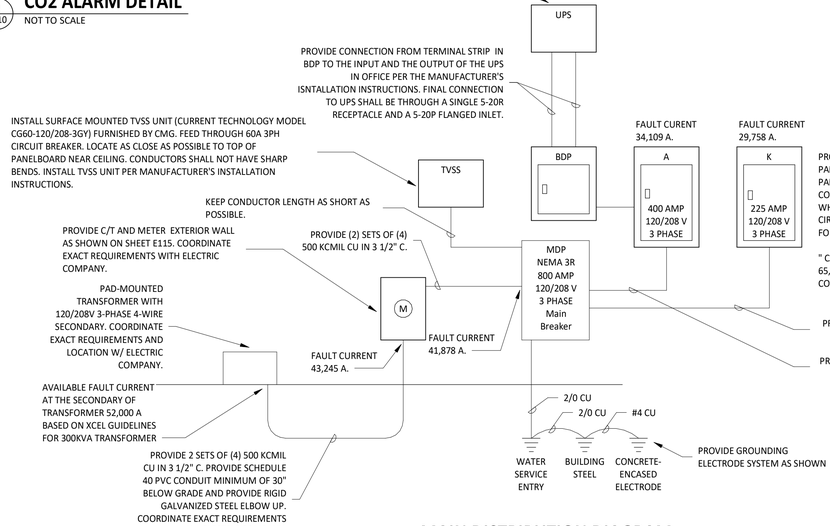
4 E710 CO2 ALARM DETAIL
NOT TO SCALE



3 E710 BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
NOT TO SCALE



2 E710 PEDESTAL OUTLET DETAIL
NOT TO SCALE



1 E710 MAIN DISTRIBUTION DIAGRAM
NOT TO SCALE

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DATE: 09/10/2024 EXP: 10/31/2025

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DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

1	08/02/2024	CITY COMMENTS

Drawn: MPC
Checked: MPC

Project No.: 05-5119

Contents:
ELECTRICAL DETAILS

E710

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: CHIPOTLE - Denver, CO
Project Type: New Construction

Construction Site:
8928 E. 46th Ave.
Denver, CO 80238

Owner/Agent:
Lingle Design Group
158 West Main Street
Lena, IL 61048
815-369-9155

Designer/Contractor:
Gregory Doffin
Dickerson Engineering Inc.
3343 N. Ridge Ave.
Arlington Heights, IL 60004
847-966-0290

Additional Efficiency Package(s)

Credits: 10.0 Required 20.0 Proposed
Fault detection and diagnostics system, 1.0 credit
Reduced lighting power, 19.0 credit
Enhanced envelope performance, 0.0 credit
5% cooling efficiency improvement, 0.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-KITCHEN (Common Space Types:Food Preparation)	1293	1.09	1409
Allowance: Decorative Appearance (not lobbies) / Fix. ID: J4	18 (a)	0.75	14 (b)
2-DINING (Common Space Types:Dining Area - General)	977	0.43	420
Allowance: Decorative Appearance (not lobbies) / Fix. ID: P5	15 (a)	0.75	11 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: P6	30 (a)	0.75	22 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: T1	300 (a)	0.75	225 (b)
3-RESTROOMS (Common Space Types:Restrooms)	153	0.63	96
4-OFFICE (Common Space Types:Office - Enclosed)	66	0.74	49
		Total Allowed Watts =	2247

(a) Area claimed must not exceed the illuminated area permitted for this allowance type.
(b) Allowance is (B x C) or the actual wattage of the fixtures given in Section 2, whichever is less.

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-KITCHEN (Common Space Types:Food Preparation)				
LED: A1: 2X2 LED TROFFER: Other:	1	9	30	270
LED: B1: RECESSED CAN LIGHT: Other:	1	7	17	119
LED: B2: RECESSED CAN LIGHT: Other:	1	27	17	459
LED: C0: LOW PROFILE LED - 1FT: Other:	1	2	5	10
LED: C2: LOW PROFILE LED - 2FT: Other:	1	2	12	24
LED: C3: LOW PROFILE LED - 4FT: Other:	1	6	15	90
LED: H1: HOOD LIGHTS: Other: Exemption:Lighting integral to equipment	1	8	15	Exempt
LED: J4: DECORATIVE PENDANT: Other:	1	2	9	18

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
2-DINING (Common Space Types:Dining Area - General)				
LED: B2: RECESSED CAN LIGHT: Other:	1	3	17	51
LED: B3: RECESSED CAN LIGHT: Other:	1	4	12	48
LED: C2: LOW PROFILE LED - 2FT: Other:	1	3	12	36
LED: C3: LOW PROFILE LED - 4FT: Other:	1	1	15	15
LED: C4: LOW PROFILE LED - 5FT: Other:	1	6	18	108
LED: P5: PENDANT: Other:	1	3	5	15
LED: P6: DECORATIVE DINING PENDANT: Other:	1	1	30	30
Track Lighting: T1: TRACK LIGHTING: Wattage based on current limiting device capacity	0	0	300	300
3-RESTROOMS (Common Space Types:Restrooms)				
LED: B2: RECESSED CAN LIGHT: Other:	1	6	17	102
4-OFFICE (Common Space Types:Office - Enclosed)				
LED: A1: 2X2 LED TROFFER: Other:	1	1	30	30
			Total Proposed Watts =	1725

Interior Lighting PASSES: Design 23% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregory Doffin, PE — Name - Title
Signature
05/08/2024 — Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100, E115 & E710
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100 & E710

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: CHIPOTLE - Denver, CO
Project Type: New Construction
Exterior Lighting Zone: 4 (High activity metropolitan commercial district (LZ4))

Construction Site:
8928 E. 46th Ave.
Denver, CO 80238

Owner/Agent:
Lingle Design Group
158 West Main Street
Lena, IL 61048
815-369-9155

Designer/Contractor:
Gregory Doffin
Dickerson Engineering Inc.
3343 N. Ridge Ave.
Arlington Heights, IL 60004
847-966-0290

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Drive-up windows/doors	2 windows	200	No	400
Parking area	17500 ft2	0.08	Yes	1400
Driveway	3000 ft2	0.08	Yes	240
			Total Tradable Watts (a) =	1640
			Total Allowed Watts =	2040
			Total Allowed Supplemental Watts (b) =	900

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Drive-up windows/doors (2 windows or doors): Non-tradable Wattage				
LED: X9: EXTERIOR LED CHANNEL: Other:	1	2	45	90
Parking area (17500 ft2): Tradable Wattage				
LED: X1: LED WALL PACK: Other:	1	2	10	20
LED: X2: POLE LIGHTS: Other:	1	6	67	402
LED: X3: POLE LIGHTS: Other:	1	2	10	20
Driveway (3000 ft2): Tradable Wattage				
LED: X2: POLE LIGHTS: Other:	1	2	67	134
			Total Tradable Proposed Watts =	576

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Sidelit zones on first floor in Group A-2 and M occupancies.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100, E115 & E710
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Exterior Lighting PASSES: Design 77% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregory Doffin, PE — Name - Title
Signature
05/08/2024 — Date

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C406.2.2 [FI66][1]	5% cooling efficiency improvement - all HVAC and Plant cooling equipment is 5% more efficient than required by 2021 IECC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.3 [FI67][1]	Reduced lighting power - this credit specifies that the connected lighting power is >= 10% more efficient than 2021 IECC requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.8 [FI68][1]	Enhanced envelope performance - the building thermal envelope UA value is >= 15% better than the total UA of the envelope specified by Section C402.1.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.11 [FI64][1]	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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DATE: 09/10/2024 EXP: 10/31/2025

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CHIPOTLE MEXICAN GRILL

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COMCHECK

E800

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 | Date: 7/8/2024

MANDATORY		RESPONSE	DESIGNER NOTES
Indicate if the project scope includes any of the following:	New construction (Y/N)	N	
	Addition (Y/N)	N	
	Change of occupancy or use (Y/N)	N	
	First tenant in the space (Y/N)	N	
	Tenant finish in a previously occupied space (Y/N)	N	
	Core and shell only (Y/N)	N	
	New parking (Y/N)	Y	New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		2,400 OR053 2,225 NET INT SHELL/TENANT FINISH	
Property type	Is this an all-electric property? (Y/N)	Y	SERIES SHEETS

ALL-ELECTRIC PROPERTY. A property on a single assessment parcel with an accompanying legally described area of land as shown on a site plat, that, except for emergency power systems and standby power systems:
1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for fuel gas or fuel oil or fuel gas utility connection, installed within the building(s) or site; or,
2) Contains at least one new stand-alone all-electric building where the property includes existing fuel gas or fuel oil infrastructure built under a code effective prior to May 1, 2023

ENERGIZE DENVER					
C503.2.3	Wood 2030 target EUI required by Energize Denver	Enter the Final 2030 target EUI required by Energize Denver (Art. XIV, Ch. 10 (Buildings and building regulations), HVAC) applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver Building Energy Performance Requirements document available from the Office of Climate Action, Sustainability and Resilience. Applies to buildings 25,000 sf and larger.	N/A		Enter EUI in Response box. Indicate location of: - Supplemental calculations if applicable See Technical Guidance for Target Adjustments Appendix A 3068 Forgate

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable))	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.5.1.5	Building Thermal Envelope Performance Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado registered design professional or approved agency and a final commissioning report provided.	Y	DT230 - WEATHER BARRIERS, G012, A305 - A499	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G003, G003.2 & M010	Indicate location of: - Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G003, G003.2 & P010	Indicate location of: - Letter with qualifications of the cx of the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G003 & G003.2	Indicate location of: - Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

05.08.2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable))	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	For new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1: Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C405.14 / APPENDIX CB - SOLAR ACCESS					
C405.14 CB 103.1 CB 103.3 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low-slope roofs (2:12). Solar-ready zone to be no less than 40% of roof area and no side shall be less than 5 feet in length. No obstacles or shading from vents, ducts, pipes, HVAC equipment, skylights, and roof-mounted equipment shall be located in the solar-ready zone.	Y	A140	Indicate location of: - Calculations showing roof area per C405.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zones on drawings and indicate the roof pitch, number of stories in height above grade plane, and orientation - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system-ready area shall not be less than 2 feet by 4 feet on either dimension.	Y	A110, A150	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system-ready area
C405.9 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalator.	Indicate location of: - Escalator and moving walkway specifications

Version 1 & Dated March 1, 2024

05.08.2024

Planning Tool for C406.3: 2022 Denver Energy Code Additional Energy Efficiency Credit Requirements for New Construction and CSO2 Additions

Instructions: Enter values in to applicable cells. Floor areas in Tables C406.1(1) and C406.1(2) must match.

Project Background

1. Property is all-electric (Y/N):	Y	3. C403.2.4 Space Heating is required (Y/N):	Y
2. Project is non-previously-occupied tenant space (Y/N):	Y	4. C404.10 Water Heating is required (Y/N):	Y
5. Using CB52 for Denver Green Code LMI Compliance (Y/N):	Y		

Credit Requirements Table C406.1(2)

	Floor Area by Building Type (sf)	Denver Credit Requirements		Use Group for Table C406.1(1)
		All-Electric Properties[a]	All Other Buildings	
Multifamily		11	44	Group R
Healthcare/Hospital		11	44	Group I
Hotel/Motel		11	40	Group R
Office		11	35	Group B
Retail		11	39	Group M
School		11	28	Group E
Warehouse		11	52	Other Occupancies (Group S)
All Other	2,400	11	44	Other Occupancies
Total	**2,400**			
Area Weighted Denver Credit Requirements		11	44	
Building Credit Requirement	**10**			

a. Where the all-electric property complies with Sections C406.13 and C406.15. All-electric properties shall not be eligible for credits from Sections C406.13 and C406.15.

1. Check Floor Area matches in Tables C406.1(1) and C406.1(2)	Y
2. Check project achieves required credits (Pass / Needs Additional Credits)	PASS
3. Summary requirements versus credits:	Building Credit Requirement is 10 and Included Credits are 12

C406.7.1 Prorate Service Hot Water Credits - Optional

	Floor Area by Building Type (sf)	Percent Prorated by Building Floor Area (%)
Group R-1: Boarding houses, hotels or motels		
Group I-2: Hospitals, psychiatric hospitals and nursing homes		
Group R-2		
Total Group R and I	0	0%
Group E: Schools with full-service kitchens or locker rooms with showers		
Total Group E	0	
Group A-2: Restaurants, banquet halls and buildings containing food preparation areas	2,400	
Group F: Laundries		
Group A-3: Health clubs and spas		
Total Other Occupancies	**2,400**	100%
Buildings with service hot water load of 10% or more of total building energy loads, as shown with an energy analysis described in Section C407		Buildings with service hot water load of 10% are not included in this tool Provide separate documentation
1): Building must comply with C404.2.1 High Input Service Water-Heating Systems (Y/N):	Y	Buildings that must comply with C404.2.1 are eligible for half the credits of C406.7.2.

Table C406.1 Additional energy efficiency credit requirements for Denver

	Group B	Group R and I	Group E	Group M	Other Occupancies[a]	Total Area (sf)
Enter floor Area by Use Group (sf)					2,400	**2,400**
Check: Too many credits selected for (Dit if blank):						
Included Credits by Use Group	**0**	**0**	**0**	**0**	**12**	Total Included Credits
Total Floor Area Weighted Included Credits						**12**

Section	Included in COMcheck IECC-2021 OR Denver Specific	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Notes	Documentation	Calculation Type	Threshold
C406.2.1: 5% Heating Efficiency Improvement	COMcheck IECC-2021		1		1		3		2		1	Select only 1 from C406.1.2, C406.2.3, C406.2.6	Calculation	Efficiency % diff	5%
C406.2.2: 5% Cooling Efficiency Improvement	COMcheck IECC-2021		2		1		3		1		1	Select only 1 from C406.2.2, C406.2.4, C406.2.5	Calculation	Efficiency % diff	5%
C406.2.3: 10% Heating Efficiency Improvement	COMcheck IECC-2021		3		2		5		3		3	Select only 1 from C406.1.2, C406.2.3, C406.2.6	Calculation	Efficiency % diff	10%
C406.2.4: 10% Cooling Efficiency Improvement	COMcheck IECC-2021		4		1		2		2		2	Select only 1 from C406.2.2, C406.2.4, C406.2.5	Calculation	Efficiency % diff	10%
C406.2.5: >10% Cooling Efficiency Improvement	Denver Specific											Select only 1 from C406.2.2, C406.2.4, C406.2.5 Manually enter credits and provide calculation	Calculation	Modified efficiency % diff	>10%
C406.2.6: >10% Heating Efficiency Improvement	Denver Specific											Select only 1 from C406.1.2, C406.2.3, C406.2.6 Manually enter credits and provide calculation	Calculation	Modified efficiency % diff	>10%
C405.5: Reduced Light Power	COMcheck IECC-2021 with Denver Specific instructions		7		2		8		12		7	Select only 1 from C405.3, C405.3.2 15%, C405.3.2 >15%. Denver modifies Building Area Method Table C405.3.2(1)	Calculation	Efficiency % diff	10%
C406.3.2: Reduced lighting power by 15%	COMcheck IECC-2021 with Denver Specific instructions		11		3		12		18	Y	11	Select only 1 from C405.3, C405.3.2 15%, C405.3.2 >15%. Denver modifies Building Area Method Table C405.3.2(1)	Calculation	Efficiency % diff	15%
C406.3.2: Reduced lighting power by >15%	COMcheck IECC-2021 with Denver Specific instructions											Select only 1 from C405.3, C405.3.2 15%, C405.3.2 >15%. Denver modifies Building Area Method Table C405.3.2(1)	Calculation	Modified efficiency % diff	>15%
C406.4: Enhanced Digital Light Ctrl	COMcheck IECC-2021		2		NA		2		3		2		Drawing, Sequence of Ops	NA	
C406.5.1: Basic Renewable Credit	COMcheck IECC-2021		9		7		6		7		2	Select only 1 from C406.5.1, C406.5.2	Calculation	Capacity	
C405.5.2: Enhanced Renewable Credit	Denver Specific											Select only 1 from C405.5.1, C405.5.2. Manually enter credits and provide calculation	Calculation	Modified Capacity	
C406.6: Dedicated OA Sys (DOAS)	COMcheck IECC-2021		5		8		NA		3		5		Drawing, Sequence of Ops	NA	
C406.7.2: Recovered/Renew SWH[b]	COMcheck IECC-2021		NA		0				NA		7	Enter building types in Table C405.7.1 to prorate. If must comply with C404.2.1, eligible for half the credits	Calculation	Capacity	
C406.7.3: Efficient fossil fuel SWH[b]	COMcheck IECC-2021		NA		0				NA		6	Enter building types in Table C406.7.1 to prorate	Schedule	NA	
C406.7.4: Heat Pump SWH[b]	COMcheck IECC-2021		NA		0				NA		5	Enter building types in Table C406.7.1 to prorate	Schedule, Drawing	NA	
C406.8.1: Reduced envelope UA	COMcheck IECC-2021 with Denver Specific instructions		10		4		2		4		5	Select only 1 from C406.8.1, C406.8.2	Calculation	UA % diff	15%
C406.8.2: Further reduced envelope UA	COMcheck IECC-2021 with Denver Specific instructions		15		6		3		6		8	Select only 1 from C406.8.1, C406.8.2	Calculation	UA % diff	25%
C405.9.1: Reduced Air Infiltration	COMcheck IECC-2021		4		5		NA		2		4	Select only 1 from C405.9.1, C405.9.2	Document, Report	NA	0.25 cfm/sf at 75 Pa
C405.9.2: Further Reduced Air Infiltration	Denver Specific - threshold only		7		8		NA		3		7	Select only 1 from C405.9.1, C405.9.2	Document, Report	NA	0.15 cfm/sf at 75 Pa
C406.10: Energy Monitoring	COMcheck IECC-2021		2		1		2		3		2		Drawings, Specs	NA	
C406.11: Fault Detection	COMcheck IECC-2021		1		1		1		1	Y	1		Drawings, Specs	NA	
C405.12: Efficient Kitchen Equipment	COMcheck IECC-2021											Manually enter points and provide calculation - 10 Max	Calculation	Modified efficiency % diff	
C406.13: All-Electric Space Heating	Denver Specific		0		0		0		0		0	All-Electric Properties are not eligible. Available when not required by C403.2.4	Calculation	kbtu/sf	
C405.14: Cold Climate Heat Pumps	Denver Specific		4		5		5		9		6		Schedule, Calculation	kbtu/sf	
C406.15: All-Electric Water Heating	Denver Specific		0		0		0		0		0	All-Electric Properties are not eligible. Available when not required by C404.10	Drawing	NA	
C405.16: Demand Responsive Thermostats	Denver Specific		1		1		1		1		1		Drawings, Specs	NA	
C406.17.1: Reduced Fan Power	Denver Specific		2		NA		6		7		3	Select only 1 from C406.17.1, C406.17.2	Calculation	Fan power % diff	10%
C406.17.2: Further Reduced Fan Power	Denver Specific		4		NA		11		14		6	Select only 1 from C406.17.1, C406.17.2	Calculation	Fan power % diff	20%

a. Other occupancy groups include all Groups except for Groups B, R, I, E, and M

b. For occupancy groups listed in C406.7.1

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DATE: 09/10/2024 EXP: 10/31/2025

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05/09/2024	PERMIT SET

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Contents:

DEC Compliance Checklist

E801

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - Power & Lighting

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238

Date: 4/23/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
ALL COMPLIANCE PATHS					
C405.4	lighting for plant growth and maintenance	This section applies to indoor agriculture facilities. Electronic ballasts are required for all non-LED lighting with replaceable lamps. At least 95% of total watts of lighting for plant growth must meet photosynthetic photon efficacy per this section.	N/A	Project does not include agriculture facility.	Indicate location of: - Documentation for luminaire or lamp efficacy compliance - Supplemental calculations if applicable Verify on the electrical plans that the new plant growth luminaires are listed by an OSHA NRTL as an assembly and not as an assembly of individually listed components, or if no listing is available for the luminaires, verify that the luminaires will be field certified by an OSHA NRLT and provide the appropriate standard by which the luminaires will be field tested to.
C405.12	Energy Monitoring	For new buildings with a conditioned gross floor area of 25,000 square feet or greater, install electrical energy metering, end-use metering, a data acquisition system and provide a graphical energy report.	N/A	Project is less than 25,000 square feet	Indicate location of: - Meters for the building and site, HVAC system, interior lighting, exterior lighting, plug load, process load, miscellaneous loads including fireplaces, pools, in-ground spas and snow-melt systems - Specification for accuracy of current sensors, data acquisition and storage, graphical energy reporting - Supplemental calculations if applicable
C405.13.2 C405.13.3 C405.13.4 C405.13.5 C405.13.6	EV Spaces	Provide electric vehicle infrastructure.	N/A	Provided by EV vendor under Separate Permit	Indicate location of: - Raceway or cable assembly, outlet or enclosure, panelboard, switchboard or other electrical distribution directory, dedicated space in electrical room - Marking for "Future electric vehicle supply equipment (EVSE)" - Charging rate for installed spaces - Supplemental calculations if applicable
C405.14 CB 103.8	Solar Ready Electric Service Reserved Space	Main electrical service panel shall have reserve space to allow for installations of two-pole/three-pole circuit breakers for future solar electric and future electrical energy storage system. Reserved spaces to be labeled "For Future Solar Electric" and "For Future Energy Storage." Reserved Spaces shall be positioned at the opposite end of the panel from the panel supply conductor connection.	E600		Indicate location of: - Reserved circuit breaker spaces for the future solar electric and future energy storage on the panel schedule

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C405.15 C404.12	Electric Infrastructure and Space for Water Heating	Fossil fuel water heating equipment, furnaces and appliances listed in Section C405.15 shall be provided with junction box or equipment connected to electrical panel to allow for future electric appliances or equipment to be installed in the same space. Minimum space for future water heating equipment is defined in Section C404.12.	E110, E600		Indicate location of: - Electrical load calculations for the panels feeding the equivalent future electric appliance and equipment - Information demonstrating what the future electric appliance and equipment load capacity will be and how it is equivalent to the fossil fuel appliances and equipment that will be installed - Junction box and electrical panel directory entry for the dedicated circuit breaker space shall have labels stating, "For future electric equipment".
C402.5.10	Recessed lighting	Recessed lighting shall be IC-rated, labeled with air leakage rate of no more than 2.0 cfm at 75 Pa, and sealed.	E100		Indicate location of: - Drawings with recessed lighting and instructions for gasket or caulk
C403.1.2	Data Centers	Data centers systems shall comply with Sections 6 and 8 of ASHRAE 90.4 with changes listed in C403.1.2: - Maximum Design Electrical Loss Component ELC per Section 8	N/A	Project is not a data center.	Indicate location of: - ITE design load and M/I/f, Annualized ELC
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	E800		Indicate location of: •COMcheck certificate and inspection checklist •Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C405.2.2(2.4)	Lighting Controls	Lighting control shall either comply with sections C405.2.1 through C405.2.7, OR provided with luminaire level lighting controls (LLLC) as specified in C405.2.1, C405.2.5, and C405.2.6. If providing LLLC per C405.2.2, 2022 Denver Energy Code requirement C405.2.2(2.4) indicates that the provided LLLC shall be capable of reducing lighting power uniformly by no less than 10% when signaled by demand responsive control.	E100		Indicate location of: - Lighting demand response controls - Sequence of operations - Supplemental calculations if applicable Lighting controls are not required in designated security or emergency areas that are required to be continuously lighted, interior exit stairways, interior exit ramps and exit passageways, normally off emergency egress lighting.
C405.2.1	Occupant Sensor Controls	Occupancy sensors shall be installed in the following rooms: - Classrooms/lecture/training rooms, Conference/meeting/multipurpose rooms, Copy/print rooms, Lounges/breakrooms, Enclosed offices, Open plan office areas, Restrooms, Storage Rooms, Locker Rooms, Corridors, Warehouse storage spaces - Other spaces 300 square feet or less enclosed by floor-to-ceiling height partitions	E100		Indicate location of: - Lighting occupant sensor controls - Sequence of operations - Lighting control zones for warehouse aisleways for C405.2.1.2 if applicable - Open plan offices general lighting control zones not greater than 600 sf per C405.2.1.3 if applicable

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C405.2.2	Time-switch Controls	Each area of the building that is not provided with occupant sensor controls complying with Section C405.2.1.1 shall be provided with time-switch controls meeting requirements of C405.2.2.1. Lighting controls are not required where controls are provided in accordance with C405.2.4, where patient care is directly provided, where auto-shutoff would endanger occupant safety or security, or shop and laboratory classrooms.	E100, E710		Indicate location of: - Lighting time-switch controls - Sequence of operations
C405.2.3	Light-reduction Controls for general lighting	General lighting shall be provided with light-reduction controls complying with Section C405.2.3.1. Does not apply where occupant sensor controls C405.2.1.1, daylight responsive controls C405.2.4., or special application controls C405.2.5. are provided. Does not apply to certain manual control cases or in corridors, lobbies, electrical rooms and mechanical rooms. Manual control shall allow the occupant to reduce the connected lighting load by at least 50 percent by one of the following or other approved method: •Dimming all lamps or luminaires to less than 20 percent of full power •Dual switching of alternate rows of luminaires, alternate luminaires or alternate lamps •Switching the middle lamp of luminaires independently of the outer lamps •Switching each luminaire or each lamp	E100		Indicate location of: - Lighting controls and sequence of operations
C405.2.4	Daylight-responsive Controls	Daylight responsive controls for general lighting are required in spaces with primary sidelit or toplit zones with at least 150 Watts in primary sidelit daylight zones, 300 Watts in sidelit daylight zones, or 150 Watts in toplit daylight zones. Daylighting controls shall be capable to continuous dimming to 15% of full light output and off.	N/A	Project is a occupancy group A-2, so it is exempt from day light controls	Indicate location of: - Lighting controls and sequence of operations - Primary sidelit, secondary sidelit and toplit daylighting zones on floor plans with and locations of luminaires in these zones
C405.2.5	Specific Application Controls	Either an occupant sensor or time-switch control shall control the lighting listed below, and a manual control shall be installed to separately control the lighting from the general lighting in the space. •Additional lighting for retail under C405.3.2.2.1 •Display and accent lighting. •Display case lighting. •Supplemental task lighting. •Lighting equipment for sale or demonstration in lighting education. •Lighting for nonvisual applications, such as plant growth and food warming, shall be controlled by a time switch control that is independent of the controls for other lighting in the space.	E100		Indicate location of: - Lighting controls and sequence of operations

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C405.2.5	Specific Application Controls for Sleeping and Dwelling Units	Either an occupant sensor or time switch control shall control the lighting listed below, and a manual control shall be installed to separately control the lighting from the general lighting in the space. •Sleeping units shall have control devices or systems that will automatically switch off all permanently installed lighting and switched receptacles within 20 minutes after all occupants have left the unit, with exceptions for lighting and switched receptacles controlled by card key controls and spaces where patient care is directly provided. •Permanently installed lights within dwelling units shall be provided with controls complying with C405.2.1.1 or C405.2.3.1.	N/A	Project does not have sleeping or dwelling units.	Indicate location of: - Lighting controls and sequence of operations
C405.2.6	Manual Controls	Where required, manual controls shall be located with ready access to occupants and shall be located where the controlled lights are visible, or shall identify the area served by the lights and indicate their status.	E100		Indicate location of: - Manual lighting controls
C405.2.7	Exterior Lighting Controls	Exterior lighting shall be provided with controls meeting C405.2.7.1 through C405.2.7.4 except for lighting for covered vehicle entrances and exits from buildings where required for eye adaption and lighting controlled from within dwelling units.	E115, E710		Indicate location of: - Exterior lighting controls and sequence of operations
C405.2.8	Parking Garage Lighting Control	Lighting for parking garages shall meet the requirements of C405.2.8.	N/A	Project does not have Parking Garage	Indicate location of: - Parking garage lighting controls and sequence of operations
C405.3	Interior Lighting Power	The total interior lighting power allowance is determined using either the Building Area Method or the Space-by-Space Method. Indicate below which of the two methods was chosen for this project.			
C405.3.2.1	Interior Lighting Power Building Area Method	Building Area Method (check box if used) ☐	N/A	Using space by space method	Building Area Method - The interior lighting power allowance is the floor area of each building area type multiplied by the value for the building area type in Table C405.3.2(1) and then summing the lighting power allowance for each building area type. Note that 2022 DEC deletes footnotes a, b, and c of Table C405.3.2(1), requiring sleeping units and dwelling units to be included in the calculation.
C405.3.2.2	Interior Lighting Power Space-by-Space Method	Space-by-Space Method (check box if used) ☐	E800		Space-by-Space Method - The interior lighting allowance is the floor area of each space multiplied by the value for the space type in Table C405.3.2(2) that most closely represents the proposed use of the space, and then summing the lighting power allowances for all spaces. Tradeoffs among spaces are permitted.
C405.5	Exterior Lighting Power Requirements	The total exterior connected lighting power shall be the total maximum rated wattage of all lighting that is powered through the energy service for the building, with exceptions listed in C405.5(1) through (14). The total exterior lighting power allowance is the sum of the base site allowance and the individual allowances for areas that are to be illuminated by lighting powered through the energy service for the building in Table C405.5.2(2) and Table C405.5.2(3). The lighting zone for the building exterior is determined per Table C405.5.2(1).	E115, E600		Existing lighting cannot be excluded when calculating the total connected exterior building lighting power.

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.6	Dwelling Electrical Meter	Each dwelling unit in an R-2 building shall have a separate electrical meter to determine the electrical energy consumed by each dwelling unit occupant.	N/A	SPACE TYPE IS NOT DWELLING UNIT	Indicate location of: - Electrical meters on the electrical drawings if applicable
C405.7	Electric Transformers	Low-voltage dry-type distribution electric transformers shall meet the minimum efficiency requirements in Table C405.7.	N/A	NOT UTILIZING ANY LOW VOLTAGE DISTRIBUTION TRANSFORMER	Indicate location of: - Transformer efficiency
C405.10	Voltage Drop	The total voltage drop across the combination of feeders and branch circuits shall not exceed 5%.	E010		Indicate location of: - Calculations documenting that there are no voltage drops exceeding 5% across the combination of feeders and branch circuits
C405.11	Automatic Receptacle Control	Controls on 50 percent of receptacles in enclosed offices, conference rooms, copy or print rooms, breakrooms, classrooms, individual work stations, and modular partitions and office workstation systems and at least 25 percent of branch circuit feeders for modular furniture not shown on construction documents. Controls function shall comply with C405.11.1.	N/A	RECEPTACLES ARE DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION	Indicate location of: - Drawings that indicate which receptacles are to be provided with the automatic receptacle control function - Sequence of operation for automatic receptacle controls

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
CHOOSE SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.3.1 C406.3.2 C406.3.2	Reduced Lighting Power	Reduced Lighting Power: C406.3.1 - 10% C406.3.2 - 15% C406.3.2 - >15%	E800		Indicate credit selected and location of: - Supplemental calculations if applicable
C406.4	Enhanced Digital Lighting Controls	Meet C405.2.1 through C405.2.3 plus continuous dimming, addressed individually or up to four luminaires per controlled group, and up to eight luminaires per daylight zone, and occupancy sensors capable of being reconfigured through the digital control system.	N/A	PROJECT IS NOT PURSUING THIS CREDIT	Indicate location of: - Lighting controls - Sequence of operations
C406.5.1 C406.5.2	On-site Renewable Energy	C406.5.1 Minimum on-site renewables of 0.25 W/sf or 2% of annual energy used for mechanical, service water heating and lighting C406.5.2 Additional on-site renewables	N/A	PROJECT IS NOT PURSUING THIS CREDIT	Indicate credit selected and location of: - On-site renewable energy system - Supplemental calculations if applicable
C406.10	Energy Monitoring	Install electrical energy metering, end-use metering, a data acquisition system and provide a graphical energy report.	N/A	PROJECT IS NOT PURSUING THIS CREDIT	Indicate location of: - Meters for the building and site, HVAC system, interior lighting, exterior lighting, plug load, process load, miscellaneous loads including Fireplaces, pools, in-ground spas and snow-melt systems - Specification for accuracy of current sensors, data acquisition and storage, graphical energy reporting - Supplemental calculations if applicable

Version 1.0 Dated March 1, 2024

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DATE: 09/10/2024 EXP: 10/31/2025

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Issue Record:

05/09/2024	PERMIT SET

Revisions:

Drawn: SR

Checked: DD

Project No.: 05-5119

Contents:

DEC Compliance Checklist

E802

CONTRACTOR TO MOVE 400A-3P CIRCUIT BREAKER IN CIRCUITS (20,22,24) TO MAKE SPACE FOR THE FUTURE ENERGY STORAGE SYSTEM

CONTRACTOR TO MOVE 200A-3P CIRCUIT BREAKER IN CIRCUITS (14,16 18) TO MAKE SPACE FOR THE FUTURE SOLAR ARRAY.

PANEL MARKS: **PANEL MDP**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	800A
VOLTAGE:	208Y/120V
SYSTEM:	3P4W
KAIC:	65 KAIC SC SERIES RATED
MATERIAL:	COPPER BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR:	Bottom
TYPE:	Breaker
AMPS/SENSOR:	800A/-
CATALOG NO.:	XT8NU3800BYU000XXX
POLES:	3
LUGS:	Horiz. XT6 (3) 2/0-400 mcm, No Feed Through Lugs
ACCESSORIES:	TMA

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
24	24

OPTIONS INCLUDED

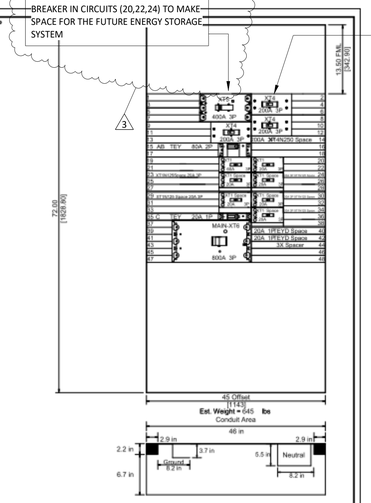
QTY	DESCRIPTION
1	Nameplates
1	Copper Bus 1000A PSI
1	CU Grnd bonded

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER7245R	Enclosure
1	GC45F24NNA	Gutter Covers
1	FT45S00135	Front 1 of 2
1	FT45S00215	Front 2 of 2

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG47CU	Ground
1	IN2408NN3B3	Interior Bus Stack
1	NL120INSTNDAL	Neutral
0	MAIN00X84	Main Code - Not a Catalog Number
1	75C14110SP109	Nameplates
1	IF2445F	Interior Frame
1	IL45F	Lifting Kits
2	SR01BB	1X Blank only
2	SR03BB	3X Blank only
1	SR1XBF	1 XT1 Mtg Kit, Wide
1	SR2XBF	2 XT1 Mtg Kit, Wide
2	SR2XBR	2 XT1 Mtg Kit, Narrow
5	SRT1BB	XT1 Blank only

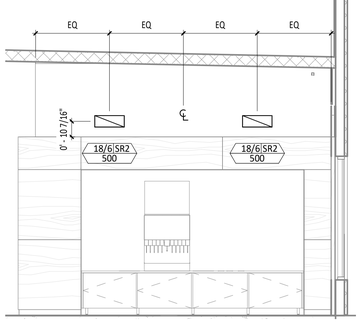

MAIN-XT8
800A 3P
400A 3P
400A 3P
MDV-3P-HV250 Space
400A 3P
400A 3P
MAIN-XT8
800A 3P
400A 3P
400A 3P
400

HVAC PLAN NOTES

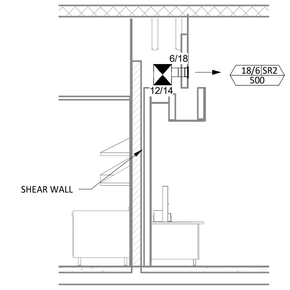
1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2. PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3. PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
4. 24/20 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5. 24/20 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6. 24/20 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 24/20 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. NOT USED
9. 17/10 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 8/6 DUCT UP THROUGH ROOF TO EF-2.
11. NOT USED.
12. NOT USED.
13. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710. PROVIDE FAULT DETECTION DIAGNOSTIC SYSTEM THAT COMPLIES WITH ENERGY CODE.
14. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
19. INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20. INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.

HVAC PLAN NOTES

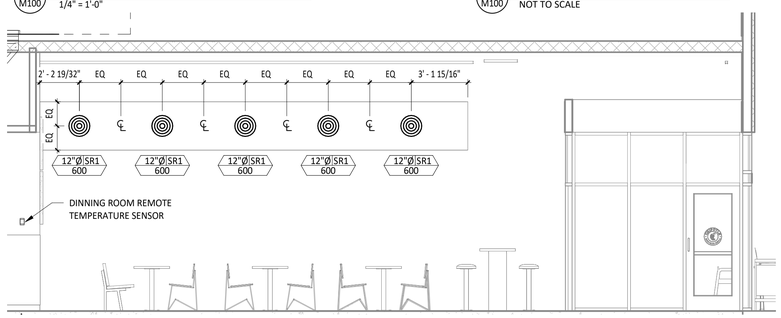
21. INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
22. INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
24. PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
25. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
26. INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
27. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28. ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



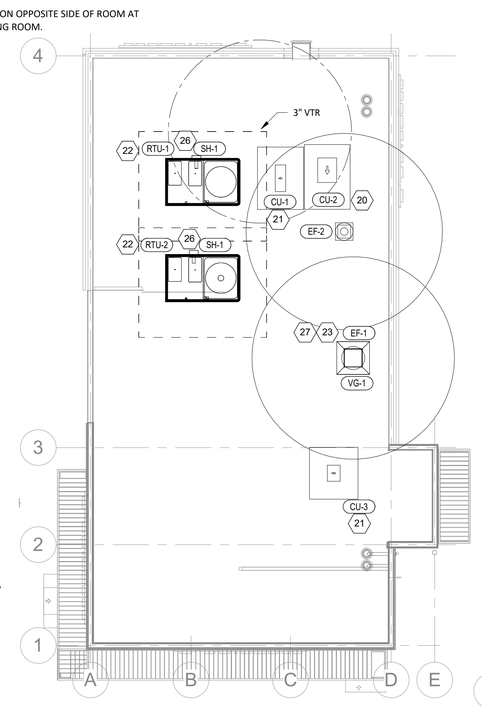
5/M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



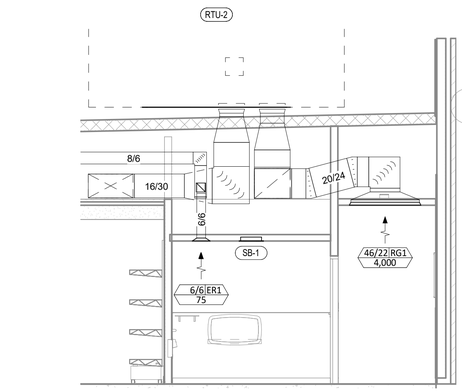
4/M100 **HVAC DINING ROOM SECTION**
NOT TO SCALE



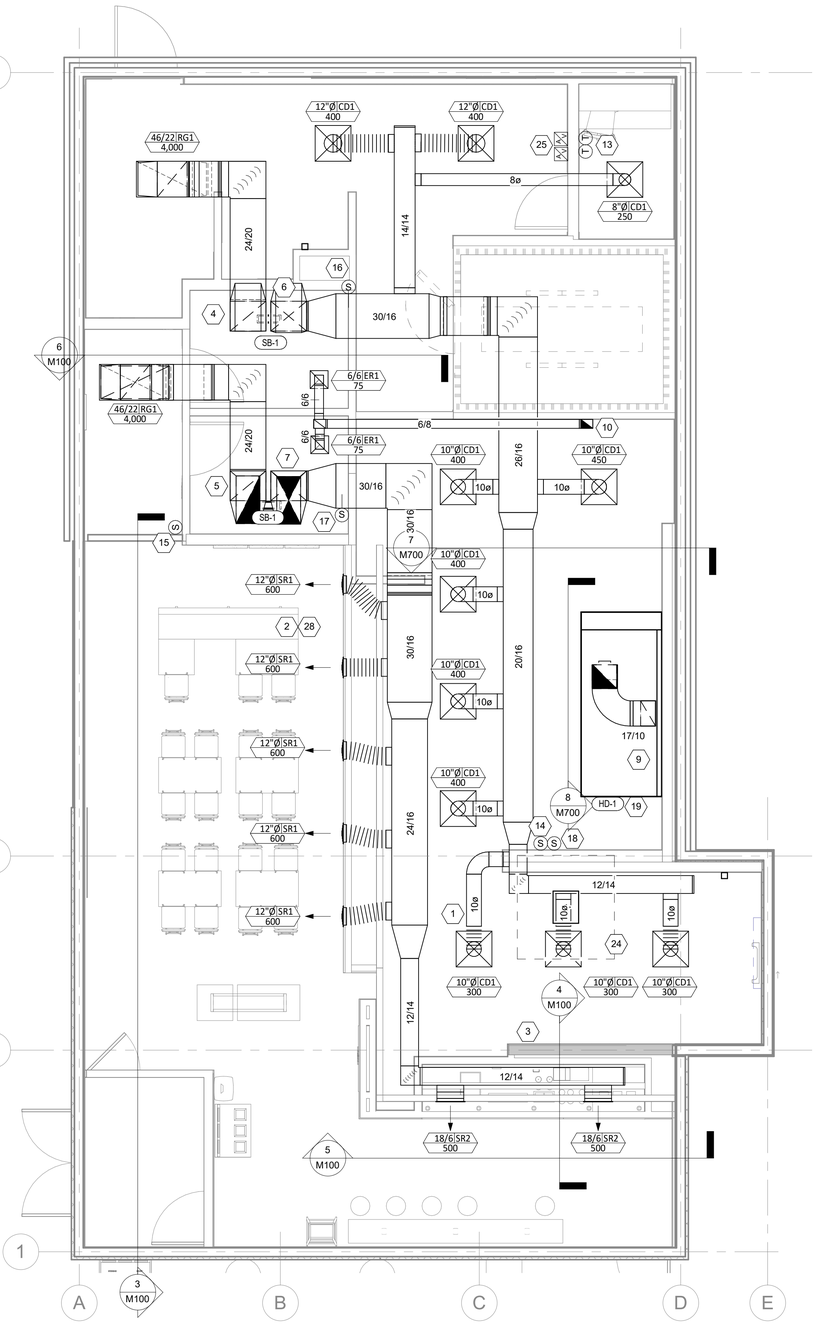
3/M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



2/M100 **HVAC ROOF PLAN**
1/8" = 1'-0"



6/M100 **HVAC KITCHEN ROOM RETURN SECTION**
1/4" = 1'-0"



1/M100 **HVAC FLOOR PLAN**
1/4" = 1'-0"

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Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
HVAC PLAN

M100

VENTILATION SCHEDULE

ROOM NO.	ROOM AREA SF	ROOM NAME	OCCUPANCY CLASSIFICATION	TOILET ROOM # WC+UR	OCC. DENSITY PER/1000 SF	AIRFLOW RATE CFM/ PERSON	AIRFLOW RATE CFM/SF	EXHAUST RATE CFM/SF	EXHAUST RATE (CONT.) CFM/FIXT	EXHAUST RATE (INTERM.) CFM/FIXT	REQUIRED OUTDOOR VENTILATION AIR & NUMBER OF PEOPLE					EXHAUST			SUPPLY		REMARKS
											CODE # OF PERSONS	OA(PER)	OA(SF)	EFFECT. (Ez)	TOTAL OA	REQUIRED (CFM)	ACTUAL (CFM)	SYSTEM	ACTUAL (CFM)	SYSTEM	
100	70.4	MAIN ENTRY	OFFICE - MAIN ENTRY LOBBIES		10	5	0.06	0	0	0	1	5	5	0.8	13	0.0	0	---	0	---	
101	602.0	DINNIG	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	43	322.5	109	0.8	539	0.0	0	---	2400	HP-2	
102	74.0	UTENSIL	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	6	45	14	0.8	74	0.0	0	---	1000	HP-2	
104	104.9	POS	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	8	60	19	0.8	99	0.0	0	---	400	HP-1	
103	65.8	PASSAGE	PUBLIC - CORRIDORS		0	0	0.06	0	0	0	0	0	4	0.8	5	0.0	4000	HP-2	0	---	
105	45.4	ORDERING	FOOD & BEV - DINING ROOMS		70	7.5	0.18	0	0	0	4	30	9	0.8	49	0.0	0	---	600	HP-2	
106	94.6	SERVING	FOOD & BEV - KITCHEN (COOKING)		20	7.5	0.12	0.7	0	0	2	15	12	0.8	34	66.2	0	---	400	HP-1	
107	309.6	COOCING	FOOD & BEV - KITCHEN (COOKING)		20	7.5	0.12	0.7	0	0	7	52.5	38	0.8	113	216.7	1900	EF-1	1250	HP-1	
108	313.9	KITCHEN	FOOD & BEV - KITCHEN (COOKING)		20	7.5	0.12	0.7	0	0	7	52.5	38	0.8	113	219.7	4000	HP-1	800	HP-1	
109	44.8	OFFICE	OFFICE - OFFICE SPACES		5	5	0.06	0	0	0	1	5	3	0.8	10	0.0	0	---	250	HP-1	
110	115.0	COOLER			N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	---	---	---	---	
111	62.0	RESTROOM	PUBLIC - TOILETROOMS	1	0	0	0	0	50	70	0	0	0	0.8	0	70.0	75	EF-2	0	---	
112	62.3	RESTROOM	PUBLIC - TOILETROOMS	1	0	0	0	0	50	70	0	0	0	0.8	0	70.0	75	EF-2	0	---	
113	126.4	PICK UP	FOOD & BEV - KITCHEN (COOKING)														0	---	900	HP-1	

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL MOTOR POWER	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
EF-1	UPBLAST UL762 EXHAUST FAN	1,900 CFM	1.20 in-wg	300 lb	1 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DU85HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	HURRICANE-RATED VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU85HFA	TDC	GC	ENVIROMATIC

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL FLA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
CU-1	CONDENSING UNIT - WALK-IN COOLER		1	1	R-404A	10.4 lb	250 lb	15 A	9 A	208/3/60	WCS	GC	HARFORD	KPCL99MZOP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5FZ	FURNISHED WITH ICE MAKER

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM AIRFLOW	EXHAUST PLENUM E.S.P.	DUCT COLLARS NO.	DUCT COLLARS WIDTH	DUCT COLLARS LENGTH	LENGTH	WIDTH	NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
HD-1	TYPE I CANOPY HOOD	600 °F	1,900 CFM	0.85 in-wg	1	10"	1' - 5"	9' - 4"	4' - 3"	6	900 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW TOTAL	AIRFLOW OA	AIRFLOW E.S.P.	NET COOLING CAPACITY TOTAL	NET COOLING CAPACITY SENSIBLE	EAT DB	EAT WB	COND. EAT	HEATING CAPACITY HEAT PUMP OUTPUT	HEATING CAPACITY SECONDARY ELECTRIC HEAT	HEATING CAPACITY EAT	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL MOCP	ELECTRICAL MCA	ELECTRICAL V/P/H	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	REMARKS
RTU-1	KITCHEN ROOFTOP UNIT	10 ton	11	4,000 CFM	1,050 CFM	1.00 in-wg	109,480 Btu/h	92,880 Btu/h	80.2 °F	66.4 °F	95 °F	105,170 Btu/h	54 kW	50.5 °F	1	1	R-410A	16.3 lb	1,239 lb	200 A	184 A	208/3/60	HES	GC	TRANE	WSC120H3RNB	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE, FAULT DETECTION DIAGNOSTICS. 2
RTU-2	DINNING ROOFTOP UNIT	10 ton	11	4,000 CFM	1,050 CFM	1.00 in-wg	109,480 Btu/h	92,880 Btu/h	80.2 °F	66.4 °F	95 °F	105,170 Btu/h	54 kW	50.5 °F	1	1	R-410A	16.3 lb	1,239 lb	200 A	184 A	208/3/60	HES	GC	TRANE	WSC120H3RNB	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE, FAULT DETECTION DIAGNOSTICS. 2

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	1,900 CFM	-1,900 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
RTU-1	4,000 CFM	2,950 CFM	0 CFM	1,050 CFM
RTU-2	4,000 CFM	2,950 CFM	0 CFM	1,050 CFM
NET PRESSURIZATION				50 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	NOTES
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-12	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE WITH INTEGRAL OBD

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND RTU UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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COLORADO REGISTERED PROFESSIONAL ENGINEER JOSEPH G. THOMAS 34886
Date: 09/09/2024
Exp. Date: 10/31/2025

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RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

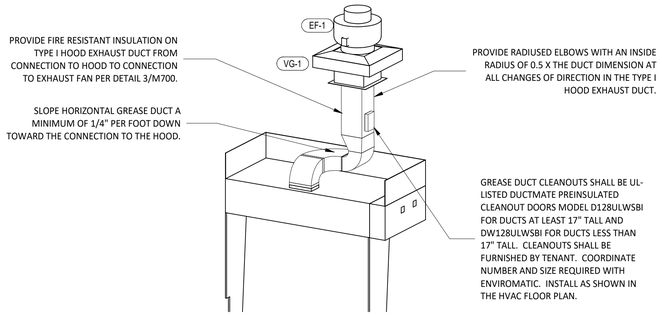
1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

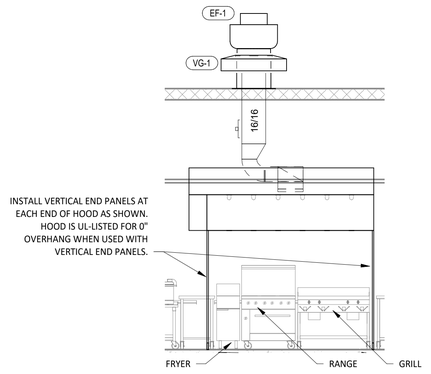
Contents: HVAC SCHEDULES

M600



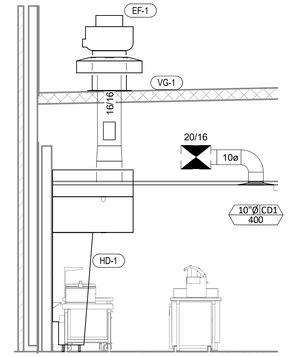
9 M700 HOOD EXHAUST ISOMETRIC

NOT TO SCALE



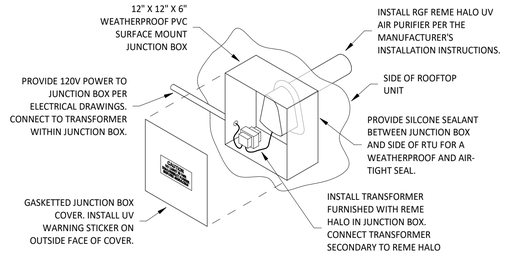
8 M700 HOOD ELEVATION

1/4" = 1'-0"



7 M700 DUCT SECTION AT HOOD

1/4" = 1'-0"



INSTALLATION LOCATION

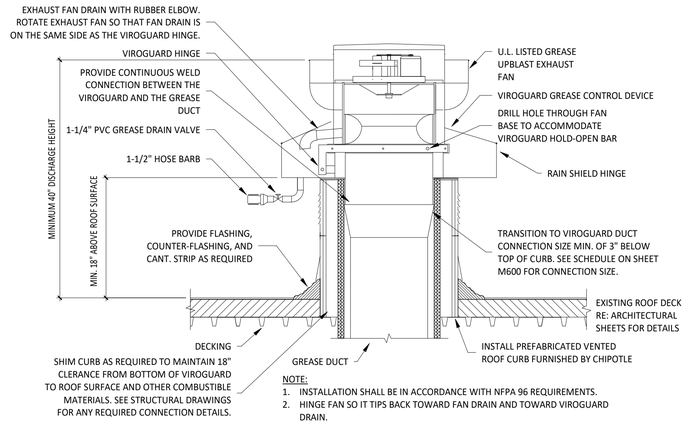
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.

YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

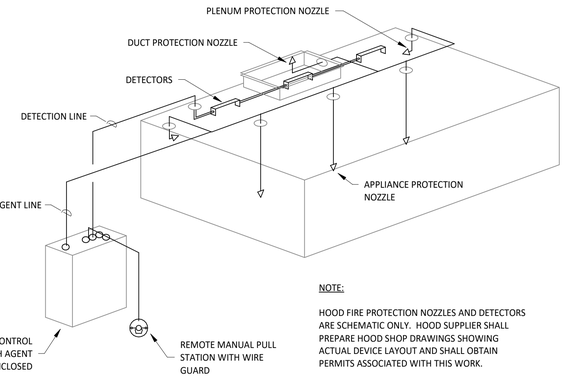
6 M700 UV AIR PURIFIER INSTALLATION

NOT TO SCALE



5 M700 GREASE EXHAUST FAN

NOT TO SCALE

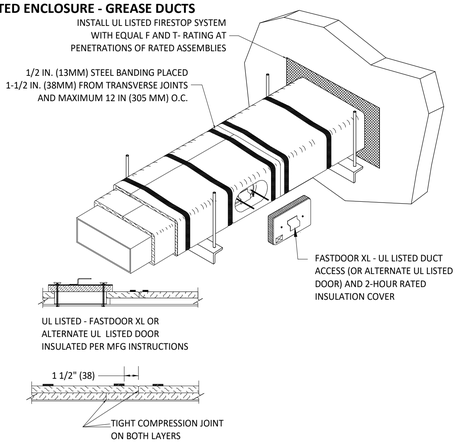


4 M700 FIRE SUPPRESSION SYSTEM SCHEMATIC

NOT TO SCALE

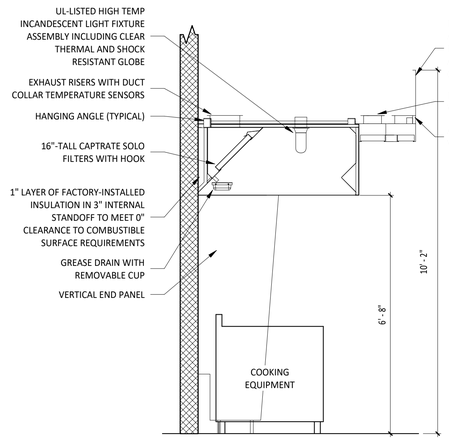
FIRE RATED ENCLOSURE - GREASE DUCTS

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   - NFPA 96
   - INTERNATIONAL MECHANICAL CODES
   - UNIFORM MECHANICAL CODE.
   - CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



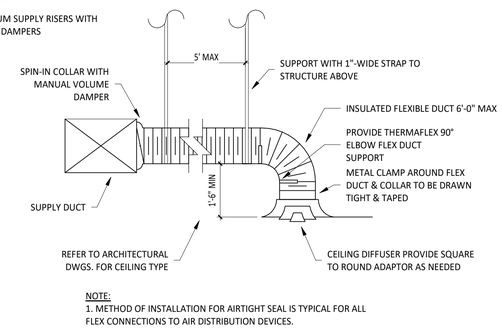
3 M700 FIREMASTER DUCT WRAP - UL HNKT-G18

NOT TO SCALE



2 M700 HOOD SECTION VIEW

NOT TO SCALE



1 M700 DIFFUSER CONNECTION

NOT TO SCALE

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Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
HVAC DETAILS

M700

COMcheck Software Version COMcheckWeb
Mechanical Compliance Certificate

Project Information

Energy Code:	2021 IECC
Project Title:	CMG_DENVER,CO #23398 (rev1)
Location:	Denver, Colorado
Climate Zone:	5b
Project Type:	New Construction

Construction Site:
Runway 35N
Denver, Colorado 80907

Owner/Agent:
Chipotle Mexican Grill
Runway 35N
Denver, Illinois 60515

Designer/Contractor:
Joseph Thomas
WCW Engineers, Inc
760 Creel Drive
Wood Dale, Illinois 60191
3123394124
joe.thomas@wcwengineers.com

Additional Efficiency Package(s)

Credits: 10.0 Required 1.0 Proposed
Fault detection and diagnostics system, 1.0 credit

Mechanical Systems List

Quantity **System Type & Description**

2 HVAC System (Single Zone):
Single Package Heat Pump
Heating Mode: Capacity = 105 kBtu/h,
Proposed Efficiency = 3.40 COP, Required Efficiency = 3.40 COP
Cooling Mode: Capacity = 112 kBtu/h, , Air Economizer
Proposed Efficiency = 11.00 EER, Required Efficiency = 11.00 EER
Proposed Part Load Efficiency = 14.60 IEER, Required Part Load Efficiency = 14.10 IEER
Fan System: FAN SYSTEM 1 -- Compliance (Motor nameplate HP and fan efficiency method) : Passes

Fans:
rtu-1,2 Supply, Single-Zone VAV, 4000 CFM, 2.8 motor nameplate hp, 0.00 fan energy index , fan exception: Fan array <= 5 total HP or <= 4.1 kW

1 Water Heater:
Electric Storage Water Heater, Capacity: 120 gallons w/ Circulation Pump
Proposed Efficiency: 0.53 SL, %/h (if > 12 kW), Required Efficiency: 0.53 SL, %/h (if > 12 kW)

Mechanical Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Joseph G. Thomas — Name - Title
Signature
07/30/2024 — Date

COMcheck Software Version COMcheckWeb
Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR2][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the mechanical and service water heating systems and document where exceptions to the standard are claimed. Load calculations per acceptable engineering standards and handbooks. Hot water system sized per manufacturer's sizing guide.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Footing / Foundation Inspection	Complies?	Comments/Assumptions
C403.13.2, C403.13.3 [FO9][1]	Snow/ice melting system and freeze protection systems have sensors and controls configured to limit service for pavement temperature above 50F and outdoor temperature above 40F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Plumbing Rough-In Inspection	Complies?	Comments/Assumptions
C404.5, C404.5.1, C404.5.2 [PL6][3]	Heated water supply piping conforms to pipe length and volume requirements. Refer to section details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1, C404.6.2 [PL3][1]	Automatic time switches installed to automatically switch off the recirculating hot-water system or heat trace.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.6.3 [PL7][3]	Pumps that circulate water between a heater and storage tank have controls that limit operation from startup to <= 5 minutes after end of heating cycle.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.6.1, C404.6.1.1 [PL8][3]	Demand recirculation water systems have controls that start the pump upon receiving a signal from the action of a user of a fixture or appliance and limits the temperature of the water entering the cold-water piping to 104°F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C402.2.6 [ME41][3]	Thermally ineffective panel surfaces of sensible heating panels have insulation >= R-3.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.8.4 [ME142][2]	Motors for fans that are not less than 1/12 hp and less than 1 hp are electronically commutated motors or have a minimum motor efficiency of 70 percent. These motors have the means to adjust motor speed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.8.6 [ME143][2]	Each DX cooling system > 65 kBtu and chiller water/evaporative cooling system with fans > 1/4 hp are designed to vary the indoor fan airflow as a function of load and comply with detailed requirements of this section.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.9 [ME144][2]	Large diameter fans where installed shall be tested and labeled in accordance with AMCA 230.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.3 [ME55][2]	HVAC equipment efficiency verified.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Mechanical Systems list for values.*
C403.5.5 [ME113][2]	Fault detection and diagnostics installed with air-cooled unitary DX units or VRF units having economizers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.2.2 [ME59][1]	Natural or mechanical ventilation is provided in accordance with International Mechanical Code Chapter 4. Mechanical ventilation has capability to reduce outdoor air supply to minimum per IMC Chapter 4.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.7.1 [ME59][1]	Demand control ventilation provided for spaces >500 ft2 and >15 people/1000 ft2 occupant density and served by systems with air side economizer, auto modulating outside air damper control, or design airflow >3,000 cfm.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.2 [ME115][3]	Enclosed parking garage ventilation has automatic contaminant detection and capacity to stage or modulate fans to 50% or less of design capacity.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.6 [ME141][3]	HVAC systems serving guestrooms in Group R-1 buildings with > 50 guestrooms: Each guestroom is provided with controls that automatically manage temperature setpoint and ventilation (see sections C403.7.6.1 and C403.7.6.2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.7.4 [ME57][1]	Exhaust air energy recovery on systems meeting Table C403.7.4(1) and C403.7.4(2).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.7.5 [ME116][3]	Kitchen exhaust systems comply with replacement air and conditioned supply air limitations, and satisfy hood rating requirements and maximum exhaust rate criteria.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5, C403.5.1, C403.5.2 [ME62][1]	Air economizers provided where required, meet the requirements for design capacity, control signal, ventilation controls, high-limit shut-off, integrated economizer control, and provide a means to relieve excess outside air during operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5.3.3 [ME124][1]	Air economizers automatically reduce outdoor air intake to the design minimum outdoor air quantity when outdoor air intake will not reduce cooling energy usage. See Table C403.5.3.3 for applicable device types and climate zones.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5.3.4 [ME125][1]	System capable of relieving excess outdoor air during air economizer operation to prevent over pressurizing the building. The relief air outlet located to avoid recirculation into the building.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.5.3.5 [ME126][1]	Return, exhaust/relief and outdoor air dampers used in economizers have motorized dampers that automatically shut when not in use and meet maximum leakage rates. Reference section C403.7.7 for details.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.3.3.2 [ME121][3]	Closed-circuit cooling tower within heat pump loop have either automatic bypass valve or lower leakage positive closure dampers. Open-circuit tower within heat pump loop have automatic valve to bypass all heat pump water flow around the tower. Open- or closed-circuit cooling towers used in conjunction with a separate heat exchanger have heat loss by shutting down the circulation pump on the cooling tower loop. Open- or closed circuit cooling towers have a separate heat exchanger to isolate the cooling tower from the heat pump loop, and heat loss is controlled by shutting down the circulation pump on the cooling tower loop.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C403.4.1.4 [ME63][2]	Heating for vestibules and air curtains with integral heating include automatic controls that shut off the heating system when outdoor air temperatures > 45F. Vestibule heating and cooling systems controlled by a thermostat in the vestibule with heating setpoint <= 60F and cooling setpoint >= 80F.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C408.2.2.1 [ME53][3]	Air outlets and zone terminal devices have means for air balancing.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Fans with fan motors of 1 hp (0.74 kW) or less.

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

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STORE NO.: 05-5119
RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
COMCHECK

M800

Section # & Req.ID	Mechanical Rough-In Inspection	Complies?	Comments/Assumptions
C403.11.3.1, C403.11.3.2, C403.11.3.2 [ME123][3]	Refrigerated display cases, walk-in coolers or walk-in freezers served by remote compressors and remote condensers not located in a condensing unit, have fan-powered condensers that comply with Sections C403.11.3.1 and refrigeration compressor systems that comply with C403.11.3.2..	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.3 [FI8][3]	Furnished O&M manuals for HVAC systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.3.1 [FI27][3]	HVAC systems and equipment capacity does not exceed calculated loads.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1 [FI47][3]	Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.1 [FI42][3]	Heat pump controls prevent supplemental electric resistance heat from coming on when not needed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.2 [FI38][3]	Thermostatic controls have a 5 °F deadband.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.1.3 [FI20][3]	Temperature controls have setpoint overlap restrictions.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2 [FI39][3]	Each zone equipped with setback controls using automatic time clock or programmable control system.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2.1, C403.4.2.2 [FI40][3]	Automatic Controls: Setback to 55°F (heat) and 85°F (cool); 7-day clock, 2-hour occupant override, 10-hour backup	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C403.4.2.3 [FI41][3]	Systems include optimum start controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.3 [FI11][3]	Heat traps installed on supply and discharge piping of non-circulating systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C404.4 [FI25][2]	All piping insulated in accordance with section details and Table C403.12.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C404.6.1 [FI12][3]	Controls are installed that limit the operation of a recirculation pump installed to maintain temperature of a storage tank. System return pipe is a dedicated return pipe or a cold water supply pipe.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.11 [FI64][1]	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.2.1 [FI28][1]	Commissioning plan developed by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.1 [FI31][1]	HVAC equipment, systems and system-to-system relationships have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.2 [FI10][1]	HVAC and service water heating control systems have been tested to ensure proper operation, calibration and adjustment of controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.3.3 [FI32][1]	Economizers have been tested to ensure proper operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.4 [FI29][1]	Preliminary commissioning report completed and certified by registered design professional or approved agency.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI7][1]	Furnished HVAC as-built drawings submitted within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.1 [FI43][1]	An air and/or hydronic system balancing report is provided for HVAC systems.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5.2 [FI30][1]	Final commissioning report due to building owner within 90 days of receipt of certificate of occupancy.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

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Date: 09/09/2024
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Project No.: CMG-4882

Contents:

COMCHECK

M801

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238

Date: 5/8/2024

GENERAL					
Indicate if the project scope includes any of the following:	New construction (Y/N):	Y			
	Addition (Y/N):	N			
	Change of occupancy or use (Y/N):	N			
	First tenant in the space (Y/N):	Y			
	Tenant finish to a previously occupied space (Y/N):	N			
	Core and shell only (Y/N):	N			
	New parking (Y/N):	Y			New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		2,400 GROSS 2,225 NET INT SHELL/TENANT FINISH			
Property type	Is this an all-electric property? (Y/N):	Y	C SERIES SHEETS		ALL-ELECTRIC PROPERTY. A property on a single assessment parcel with an accompanying legally described area of land as shown on a site plan, that, except for emergency power systems and standby power systems : 1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for fuel gas or fuel oil or fuel gas utility connection, installed within the building(s) or site ; or, 2) Contains at least one new stand-alone all-electric building where the property includes existing fuel gas or fuel oil infrastructure built under a code effective prior to May 1, 2023
ENERGIZE DENVER					
C103.2.3	Final 2030 target EUI required by Energize Denver	Enter the final 2030 target EUI required by Energize Denver (Art. XIV, Ch. 10 (Buildings and building regulations), DRMC) applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver Building Energy Performance Requirements document available from the Office of Climate Action, Sustainability and Resiliency. Applies to buildings 25,000 sf and larger.	N/A		Enter EUI in Response box. Indicate location of: - Supplemental calculations if applicable See Technical Guidance for Target Adjustments Appendix A 2030 Targets

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.5.1.1	Building Thermal Envelope Performance Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado registered design professional or approved agency and a final commissioning report provided.	Y	G7250 - WEATHER BARRIERS, G0E2, A403 - A409	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & M010	Indicate location of: - Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & P010	Indicate location of: - Letter with qualifications of the of the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G001 & G001.2	Indicate location of: - Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	For new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1 Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C405.14 / APPENDIX CB : SOLAR ACCESS					
C405.14 CB 103.1 CB 103.3 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low-slope roofs (2:12). Solar ready zone to be no less than 60% of roof area and no side shall be less than 5 feet in length. No obstacles or shading from vents, ducts, pipes, HVAC equipment, skylights, and roof-mounted equipment shall be located in the solar-ready zone.	Y	A140	Indicate location of: - Calculations showing roof area per C405.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zones on drawings and indicate the roof pitch, number of stories in height above grade plane, and orientation - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar-ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system-ready area shall not be less than 2 feet by 4 feet on either dimension.	Y	A110, A130	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system-ready area
C405.9 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalator.	Indicate location of: - Escalator and moving walkway specifications

Version 1.6 Dated March 1, 2024

05.08.2024

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Project No.
CMG-4882

Contents:
COMPLIANCE CHECKLIST

M802

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - HVAC & Kitchen

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238

Date: 4/23/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
HVAC - ALL COMPLIANCE PATHS					
C402.5.11	Operable Openings Interlocking	Cooling and heating set point adjusted whenever the operable opening larger than 40 sf is open within 10 minutes of opening.	N/A	C402.5.11 - Exeption 1,3	Indicate location of: - Building drawings showing that operable openings have interlock switches to trigger setback of thermostat when open - Sequence of operation
C403.1.2	Data Centers	Data centers systems shall comply with Sections 6 and 8 of ASHRAE 90.4 with changes listed in C403.1.2: - HVAC Maximum Annualized Mechanical Load Component of 0.12 for data centers with ITE design load greater than 300 kW or 0.20 for data centers with ITE design power of 300 kW or less - When ITE design load exceeds 35 kW (10 tons) per room and 20 W/sf of condition floor area use adiabatic humidification systems and include hot-aisle containment - When ITE design load exceeds 35 kW (10 tons) per room and 20 W/sf of condition floor area and air-cooled computers in racks use aisle containment - Use utility recycled water for evaporative cooling towers where available	N/A	Project does not include data center system.	Indicate location of: - ITE design load and W/sf, Annualized MLC - Humidification system if applicable - Hot-aisle containment if applicable - Connection to recycled water system if applicable
C403.2.3	Fault Detection Diagnostics	For new buildings of 25,000 square feet or larger, provide a fault detection and diagnostics (FDD) system to monitor the HVAC system's performance, automatically identify faults, and be capable of reporting them to remotely located authorized personnel. R-1 and R-2 occupancies and heated-only warehouses are exempt.	N/A	building less off 25,000 square feet.	Indicate location of: - Specification of fault detection and diagnostics system
C403.2.4	Space Heating Equipment	**For permit applications submitted after January 1, 2024**, fossil-fuel warm air furnaces and electric resistance space heating equipment are not allowed, with exceptions: - Does not apply to gas fired boiler heating - Not required for make up air systems where energy recovery is prohibited by Denver Mechanical Code - Limited electric resistance is allowed - See 2022 Denver Energy Code for full exception list	N/A	heat pump system with out make up air.	Indicate location of: - Mechanical drawings and schedules detailing compliance with C403.2.4 - Rationale or calculations for exceptions to C403.2.4 if applicable
C403.4.1.1	Heat Pump Supplementary Heat	Provide heat pump controls that limit supplementary heat operation to specific instances noted in C403.4.1.1.	M801	SEE COMCHECK	Indicate location of: - Sequence of operations for heat pump supplementary heat

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C503.3.2	Alteration: Low-Nitrogen Emissions	Provide one of the following where an indoor gas-fired warm air furnace is replaced with another gas-fired warm air furnace: - Low-nitrogen dioxide emissions shall not exceed 14 nanograms of nitrogen dioxide per joule of useful heat delivered to the heated space. - An Annual Fuel Utilization Efficiency of not less than 90 percent. Indoor gas-fired make-up air units are exempt.	N/A	heat pump system with out make up air.	Indicate location of: - Mechanical schedule with nitrogen dioxide or AFUE rating
C503.3.3	Alteration: Partial Electrification for Space Heating	Provide two of the following where a gas-fired warm-air furnace is replaced with a gas-fired warm-air furnace OR one of the following when a unitary air conditioner or condensing unit serving a heated space is replaced with another unitary air conditioner or condensing unit: - Electrification Retrofit Feasibility Report - Sizing per C403.3.1 - Testing of all gas piping connected to the gas meter serving the replaced warm-air furnace per Section 406 of the IFGC. Equipment replaced as an emergency equipment replacement is exempt. Gas-fired boilers used for space heating are exempt.	N/A	heat pump system with out make up air.	Indicate selection / location of the following: - Electrification Retrofit Feasibility Report - Load calculations showing sizing - Intent to test gas piping
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	M800-M801	SEE COMCHECK	Indicate location of: - COMcheck certificate and inspection checklist Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C403.1.1	Calculations of Heating and Cooling Loads	Heating, ventilating, and air conditioning design loads shall be calculated per Section C403.1.1.	M010	Energy Code Note.	Provide load calculations when requested by the Authority Having Jurisdiction. Submitter can list as N.A. for this item, however reviewer may request loads be submitted.
C403.2.1	Zone Isolation Required	HVAC systems serving zones that are over 25,000 square feet in floor area or that span more than one floor and are designed to operate or be occupied non-simultaneously shall be divided into isolation areas.	N/A	building less off 25,000 square feet.	Indicate location of: - Zone isolation - Sequence of operations
C403.2.2	Ventilation	Ventilation, either natural or mechanical, shall be provided in accordance with Chapter 4 of the Denver Mechanical Code (DMC). Note that Section 403.3.1.1 of DMC recommends use of ASHRAE 62.1 spreadsheet.	M010	Energy Code Note.	Indicate location of: - Ventilation calculations on the mechanical drawings. Demonstrate compliance by identifying the outside air flow on the equipment schedules and showing that the equipment outside air flow is greater than the outside air flow as determined by the calculations.
C403.3.1	Equipment Sizing	The output capacity of heating and cooling equipment shall be not greater than that of the smallest available equipment size that exceeds the loads calculated in accordance with Section C403.1.1.	M010	Energy Code Note.	Provide the heat loss and heat gain load calculations when requested by the Authority Having Jurisdiction and show that the equipment provided is the smallest size available from the manufacturer. Submitter can list as N.A. for this item, however reviewer may request loads be submitted.
C403.3.2	Equipment Performance Requirements	Equipment shall comply with the minimum efficiency requirements of Tables C403.3.2(1) through C403.3.2(9).	M600		Indicate location of: - Equipment schedules with efficiencies
C403.3.3	Hot Gas Bypass Limitation	Hot gas bypass is only allowed with multiple steps of unloading or continuous capacity modulation.	N/A	Hot gas bupass not used.	Indicate location of: - Sequence of operations for hot gas bypass

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C403.3.4	Boiler Turndown	Boiler systems with design input of greater than 1,000,000 Btu/h (293 W) shall comply with turndown ratio.	N/A	Boiler system not used.	Indicate location of: - Boiler turn down ratio
C403.4	Thermostatic Controls	Each zone shall be controlled by individual thermostatic controls.	M100	Energy Code Note.	Indicate location of: - Mechanical drawings with thermostats for each HVAC system
C403.4.1.2 C403.4.1.3	Deadband Setpoint Overlap Restriction	Where zone thermostatic controls automatically change between heating and cooling, provide a deadband of not less than 5degF. Where zone has separate controls for heating and cooling, provide mechanical stop or DDC programing to maintain deadband.	M800-M801	SEE COMCHECK Heating and cooling to each zone is controlled by a thermostat control. Minimum one humidity control device per installed humidification/dehumidification system.	Indicate location of: - Sequence of operations
C403.4.1.4	Heated or Cooled Vestibules	Vestibule heating shall shut off when outdoor temperature is greater than 45degF. Space temp shall not be set to heat above than 60degF or cool below 85degF.	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.1.5	Hot Water Boiler Outdoor Temperature Setback Control	Provide boiler setback based on the outdoor temperature.	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.2	Off-hour Controls	Systems shall be provided with thermostatic setback to maintain zone temperatures down to 55degF or up to 85degF	M010 M600	Energy Code Note. Control functions.	Indicate location of: - Sequence of operations
C403.4.3	Hydronic Systems Controls	Hydronic system controls shall comply with all applicable sections C403.4.3 through C403.3.3.3 .	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.4	Part-load Controls	Hydronic systems of 300,000 Btu/h or greater shall include: - Automatically reset supply-water temperature in response to building demand - Automatically vary fluid flow - VFD pump motor power input shall be not more than 30% of design wattage at 50% of design flow	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.4.5	Pump Isolation	Boiler and chiller plants with more than one boiler/chiller shall be configured to reduce flow automatically when a boiler/chiller is shut down.	N/A	Boiler system not used.	Indicate location of: - Sequence of operations
C403.5	Economizers	Provide air or water economizer per C403.5 with exceptions. - Other than a Group R occupancy: Provide air economizer for individual fan systems with published nominal cooling capacity of 33,000 Btu/h (9.7 kW). - Group R occupancy: Provide air economizer for individual fan systems with cooling capacity of 270,000 Btu/h (79.1 kW) - Supply capacity of fan cooling units without economizers shall not exceed requirements of C403.5.	M600		Indicate location of: - Equipment schedules showing air and / or water economizer
C403.5.5	Economizer Fault Detection and Diagnostics	Air-cooled unitary direct-expansion units listed in Tables C403.3.2(1) through C403.3.2(3) and variable refrigerant flow (VRF) units that are equipped with an economizer shall include a fault detection and diagnostics.	M800-M801	SEE COMCHECK	Indicate location of: - Economizer fault detection and diagnostics specification.
C403.6	Supply-air temperature reset controls	C403.6.1 through C403.6.9 shall apply to mechanical systems serving multiple zones.	N/A	Single zone only.	Indicate location of: - Sequence of operations

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C403.7.1	Demand Control Ventilation	Demand control ventilation shall be provided for spaces larger than 500 square feet and with an average occupant load of 15 people or greater per 1,000 square feet of floor area.	M600		Indicate location of: - Mechanical drawings with sensor locations noted - Sequence of operations
C403.7.8	System Control	VAV, SZVAV, DOAS, ERV and MUA systems shall have controls to provide fault if there is excessive outside air, and display or report to DDC and measure and maintain the required flow rate of outside air.	N/A	Single zone only; heat pump system with out make up air.	Indicate location of: - Mechanical drawings with sensor locations noted - Sequence of operations
C403.7.2	Enclosed Parking Garage Ventilation Controls	Enclosed parking garages shall employ carbon monoxide and nitrogen oxide detectors and automatic controls configured to stage fans or modulate fan average airflow rates to 50 percent or less of design capacity, or intermittently operate fans less than 20 percent of the occupied time or as required to maintain acceptable contaminant levels.	N/A	With out enclosed parking.	Indicate location of: - Mechanical drawings with sensor locations noted - Sequence of operations
C403.7.4.1	Energy Recovery for Nontransient Dwelling Units	Provide outdoor air recovery ventilation systems with an enthalpy ratio of not less than 50% at cooling and 60% at heating design conditions.	N/A	With out Nontransient dwelling units.	Indicate location of: - Energy recovery systems and effectiveness
C403.7.4.2	Energy Recovery for Spaces Other Than Nontransient Dwelling Units	Systems with design airflow that exceed the minimum in Tables C403.7.4.2(1) and C403.7.4.(2) shall include an energy recovery system with a minimum enthalpy recovery ratio of 60% at balanced airflow conditions. Systems with economizers shall include a bypass of the energy recovery when conditions allow for free cooling. Energy recovery devices shall not exceed a pressure drop of 1.1" w.g. at design conditions and shall not exceed 0.6" w.g. in economizer mode (bypass). Supply and exhaust fan static efficiency must meet 65%.	N/A	Exception #11.	Indicate location of: - Energy recovery when applicable - Energy recovery effectiveness - Mechanical drawings that distinguish continuously occupied spaces (8,000 or more hr/yr) from other spaces
C403.7.5	Kitchen Exhaust Systems	Kitchen exhaust and make up air systems shall meet requirements of Section C403.7.5.	M600	With out make up air.	Indicate location of: - Make up air calculations - Hood specifications detailing UL710 listing and exhaust rates per table C403.7.5 of the DEC.
C403.7.6	Automatic Guestroom Controls	In buildings with more than 50 guestrooms, each guestroom shall be provided with controls to automatically setback space setpoints. Rented unoccupied room shall be setback by 4degF during unoccupied times. Unrented rooms shall be setback to not lower than 80degF (cooling) and not higher than 60degF (heating).	N/A	With out guestrooms.	Indicate location of: - Sequence of operations - Occupancy sensors or other means of verifying occupancy (keycard controls)
C403.7.7	Shutoff Dampers	Outdoor air intake and exhaust openings and stairway and shaft vents shall be provided with Class I motorized dampers. Not required for exhaust or relief openings in buildings less than three stories in height. Not required for exhaust design capacity is less than 300 cfm.	N/A	With out stairway and shaft.	Indicate location of: - All dampers on the mechanical drawings - Specification for dampers showing Class 1 rated
C403.8	Fans and Fan Controls	Fan and fan controls shall comply with all applicable sections of C403.8.1 through C403.8.5.	M600 M800-M801	See comcheck.	Indicate location of: - Schedules showing fan - Sequence of operations

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C403.8.6	Fan Control	Fan systems that control mechanical cooling output based on space temperature shall have at least two stages of fan control, with the fan drawing at low stage no greater than 40% of the fan power of the fan power a the maximum cooling stage.	M600 M800-M801	See comcheck.	Indicate location of: - Schedules showing fan - Sequence of operations
C403.8.6.2	Intermittent Exhaust Control for Bathroom Fans	An exhaust designed for intermittent operation shall include a Manual-On control, and either a time delay, occupancy sensor, or relative-humidity control	M600 M800-M801	See comcheck.	Indicate location of: - Controls for all bathroom and toilet fans with intermittent exhaust - Sequence of operation
C403.10	Heat Rejection Equipment	Requires: fan speed controls for fan systems with total horsepower of 5 HP or greater (C403.10.1); capability for towers with multiple cells to be run with fans modulated to 50% of design airflow when conditions allow (C403.10.4); heat recovery where there is a design service water heating load exceeds 1,000,000 Btu/h and total heat rejection capacity exceeds 6,000,000 Btu/h (C403.10.5)	N/A	With out fan system with total horsepower of 5 hp or greater.	Indicate location of: - Heat rejections equipment schedules - Sequence of operations
C403.11	Walk-in Coolers/Freezers, Refrigerated Warehouse Coolers/Freezers, and Refrigerated Cases	Walk-in coolers/freezers and refrigerated warehouse coolers/freezers shall comply with Section C403.11.1 or C403.11.2 and C403.11.2.1. Refrigerated display cases shall comply with Section C403.11.3.	M600 M800-M801	See comcheck.	Indicate location of: - Manufacturer product catalog information with the required items identified Site assembled or site constructed walk-in coolers/freezers shall comply with Tables C403.10.2.1(1) through C403.10.2.1(3). Provide calculations demonstrating compliance.
C403.12.1	Duct and Plenum Insulation and Sealing	Supply and return ducts and plenums shall be insulated in accordance with Section C403.12.1. Duct, air handers, and filter boxes shall be sealed per Section C403.12.1.	M010	Energy Code Note.	Indicate location of: - Insulation and sealing details on the mechanical drawings
C403.12.2	Duct Construction	Medium-pressure and high-pressure ductwork shall be constructed in accordance with Sections C403.12.2.1 through C403.12.2.3.	M010	Energy Code Note.	Indicate location of: - Duct construction requirements on the mechanical drawings - Requirements for air leak testing of ducts and plenums operating at 3 in w.g. or higher
C403.12.3	Piping Insulation	Piping serving as part of a heating or cooling system shall be thermally insulated in accordance with Table C403.12.3.	M010	Energy Code Note.	Indicate location of: - Pipe insulation thickness and conductivity on the mechanical drawings
C403.13	Heating Outside Building	Heating outside the building shall be a radiant system and controlled by an occupancy sensor or timer switch. Provide C403.13.2 Snow and ice-melt controls or C403.13.2 Freeze protection controls as applicable.	N/A	With out heating outside.	Indicate location of: - Heating outside the building and control device to be installed on the mechanical drawings - Sequence of operations
C403.15	Dehumidification and Cooling Efficiency for Plant Growth and Maintenance	Dehumidification and cool efficiency for plant growth and maintenance shall comply with Sections C403.15.1 and C403.15.2.	N/A	With out indoor agricultural operations.	Indicate location of: - Equipment schedules with fan efficiencies - If using electric or fossil fuel reheat systems, calculations showing that the primary dehumidification system meets 60% of the peak dehumidification load
C405.8	Electric Motors	Electric motors shall meet the minimum efficiency requirements in Tables C405.8(1) through C405.8(4).	N/A	Exception #1.	Indicate location of: - Motor efficiency

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C406 SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.2.1 C406.2.3 C406.2.6	Heating Efficiency Improvement	More Efficient Heating Performance: C406.2.1 - 5% C406.2.3 - 10% C406.2.6 - > 10%	N/A		Indicate credit selected and location of: - Heating efficiency - Supplemental calculations if applicable
C406.2.2 C406.2.4 C406.2.5	Cooling Efficiency Improvement	More Efficient Cooling Performance: C406.2.2 - 5% C406.2.4 - 10% C406.2.5 - > 10%	N/A		Indicate credit selected and location of: - Cooling efficiency - Supplemental calculations if applicable
C406.6	Dedicated Outside Air System	Dedicated Outside Air System	N/A		Indicate location of: - Dedicated outside air systems with energy recovery - Sequence of operations for reset - Supplemental calculations if applicable
C406.11	Fault Detection and Diagnostics	Provide a fault detection and diagnostics (FDD) system to monitor the HVAC system's performance and automatically identify faults and be capable of reporting them to remotely located authorized personnel.	M800-M801	1.0 credit	Indicate location of: - Specification of fault detection and diagnostics system
C406.12	Efficient Kitchen Equipment	High-performance commercial kitchen equipment with at least one gas or electric fryer, all fryers, dishwashers, steam cookers and ovens	N/A		Indicate location of: - Kitchen equipment and performance levels
C406.13	All-Electric Space Heating	Provide electric equipment for space heating. Electric resistance load shall not exceed 5 W per square foot of conditioned floor area for areas of the building served by Variable Air Volume systems and 1.35 W per square foot of conditioned floor for all other areas of the building.	N/A		Indicate location of: - Heating equipment - Supplemental calculations of electric heat W/sf if applicable
C406.14	Cold Climate Heat Pumps	Adds requirement for COP and capacity of heat pumps at low ambient temperatures and restricts the use of electric resistance heat.	M600 M800-M801	See comcheck.	Indicate location of: - Heat pump equipment and performance data - Supplemental calculations of electric heat W/sf if applicable
C406.16	Demand Responsive Thermostats	All thermostatic controls serving the building shall be provided with demand responsive controls that serves the building site.	N/A		Indicate location of: - Demand responsive thermostats - Sequence of operations
C406.17.1 C406.17.2	Reduced Fan Power	Reduced Fan Power C406.17.1 - 10% C406.17.2 - 20%	N/A		Indicate credit selected and location of: - Fan power - Supplemental calculations

Version 1.6 Dated March 1, 2024

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Exp. Date: 10/31/2025

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RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
COMPLIANCE CHECKLIST

M803

FOR QUESTIONS, CALL THE
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PATENT NUMBERS

EXHAUST HOODS ND-2/BD-2/SND-2 (CANADA) - CA PATENT 2520435 C.

HOOD INFORMATION - JOB#6807545

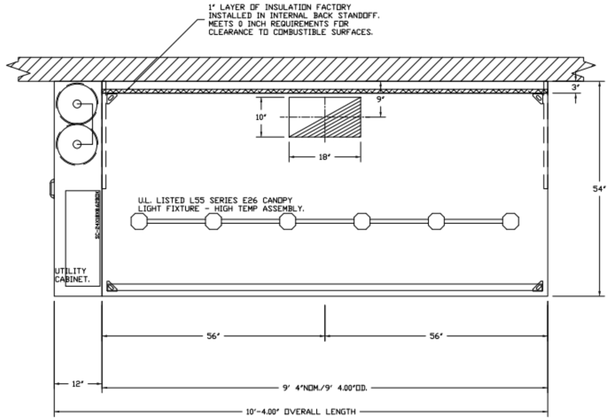
HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 ND-2	CAPTIVEAIRE	9' 4"	600 DEG	I	HEAVY	204	1900	10"	18"	4"		1900	1520	-0.818"	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

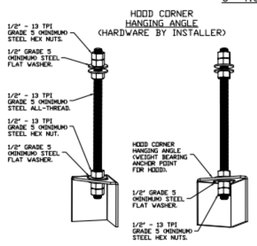
HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	7	16"	16"	85% SEE FILTER SPEC	6	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-110110MA	1 LIGHT 1 FAN	YES	880 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FULL DIMENSION HANGING BRACKET - FRONT.

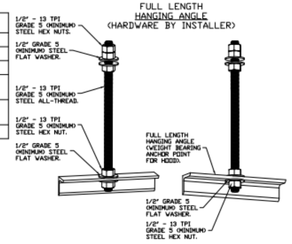


PLAN VIEW - HOOD #1
9' 4.00" LONG 5424ND-2



ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.



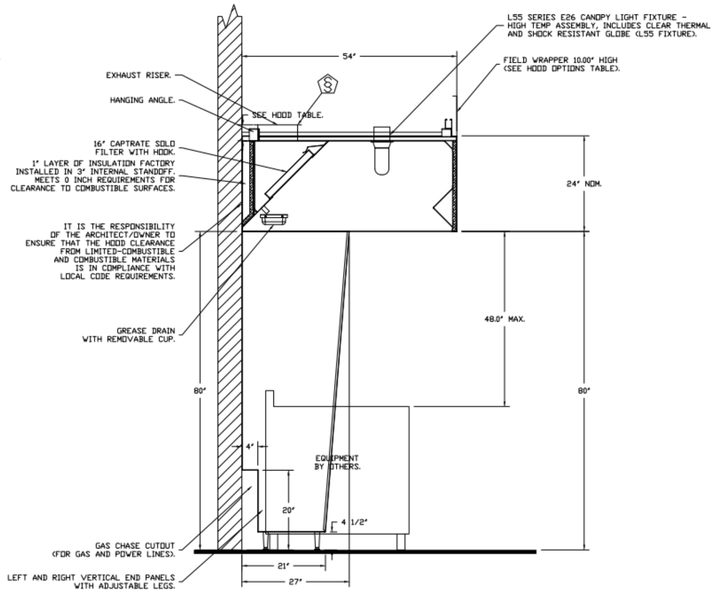
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CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	18"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.



SECTION VIEW - MODEL 5424ND-2
HOOD - #1

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

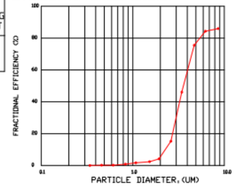
FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

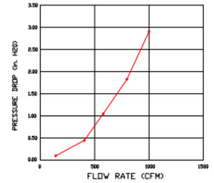
GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 10 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

EFFICIENCY VS. PARTICLE DIAMETER



PRESSURE DROP VS. FLOW RATE



CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH.
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024
DWG.#: 6807545
DRAWN BY: JMB-40
SCALE: 3/4" = 1'-0"
MASTER DRAWING

SHEET NO. 1

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JOSEPH G. THOMAS
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2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK
Project No.: CMG-4882
Contents: CAPTIVEAIRE DRAWINGS

M900 1

FIRE SYSTEM INFORMATION – JOB#6807545

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION	
						SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	28	FIRE CABINET LEFT	LEFT, HOOD 1

FIRE SYSTEM PARTS LIST KEY

FIRE SYSTEM NO	TAG	KEY NUMBER – PART DESCRIPTION	QTY BY FACTORY	QTY BY DIST
1		0 – 0 – TANK FIRE SUPPRESSION POST-DISCHARGE PROCEDURE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – TANK FIRE SUPPRESSION MAINTENANCE GUIDE UTILITY CABINET LABEL SHEET.	1	0
		0 – 0 – 12-F28021-32144-DT-360 DUCT FIRE THERMOSTAT WITH 12 FOOT WIRE LEADS. NO, CLOSE ON TEMP RISE AT 360°F. (A0034310).	1	0
		0 – 0 – 32-00002 QUIK SEAL – 1/2" (UL).	1	0
		0 – 0 – 4429K153 1/2" MALE NPT TO 1/2" FEMALE NPT ELBOW, BRASS.	2	0
		0 – 0 – 4429K422 1/2" X 1/4" BRASS REDUCING BUSHING.	1	0
		0 – 0 – 79525 1/2" 90 PRD-PRESS ELBOW WITH 1/2" NPT FEMALE CONNECTION, VIEGA.	1	0
		0 – 0 – 79580 1/2" X 1/2" PRD-PRESS TEE X 1/2" NPT FEMALE CONNECTION, VIEGA.	2	0
		0 – 0 – 87-120042-001 SECONDARY ACTUATOR VALVE (SVA) – SINGLE ACTUATOR, REQUIRES PRIMARY RELEASE ACTUATOR, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-120045-001 HOSE, SECONDARY ACTUATOR HOSE, 7.5' BRAIDED STAINLESS STEEL, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300001-001 TANK – PRESSURIZED TANK USED FOR TANK FIRE SUPPRESSION.	2	0
		0 – 0 – 87-300030-001 PRIMARY ACTUATOR KIT (PAK) – ACTUATOR AND RELEASE SOLENOID ASSEMBLY, ONE NEEDED PER FIRE SYSTEM, SUPERVISED, TANK FIRE SUPPRESSION.	1	0
		0 – 0 – 87-300152-001 HARDWARE, SVA BOLTS, TANK FIRE SUPPRESSION.	8	0
		0 – 0 – 9055455PC PRD PRESS 1/2 PRESS X PRESS 90 ELBOW LD.	6	0
		0 – 0 – 9097200PC PRD PRESS PC611 1/2 PRESS TEE LD.	5	0
		0 – 0 – 98694A115 HARDWARE, DATANKLOCK LOCKING BRACKET SQUARE NUTS 5/16" ZINC, TANK FIRE SUPPRESSION.	4	0
		0 – 0 – A0034332 JUNCTION BOX FOR MANUAL PULL STATION. 1.5" DEEP BACK BOX, RED COLOR.	1	0
		0 – 0 – A314B4 1/4" NPT SCHRADER VALVE AND CAP, JB INDUSTRIES. 1/4" FLARE X 1/4" MPT HALF UNION. USED ON TANK SERVICE PORT.	1	0
		0 – 0 – B1145 3/8" BLACK IRON 90 ELL.	2	0
		0 – 0 – DATANKLOCK DISCHARGE ADAPTER TANK LOCKING PLATE FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – TANK STRAP TANK STRAP – USED FOR TANK FIRE SUPPRESSION.	6	0
		0 – 0 – TFS-UCTANKBRACKET TANK BRACKET FOR FIRE SYSTEM TANK INSTALLATION IN UTILITY CABINETS, TANK FIRE SUPPRESSION.	2	0
		0 – 0 – WK-283952-000 DISCHARGE ADAPTER, TANK FIRE SUPPRESSION.	2	0
		16 – 16 – 79210 1/2" X 3/8" NPT MALE ADAPTER, VIEGA.	6	0
		16 – 16 – DL-F NOZZLE – TANK PROTECTION APPLIANCE COVERAGE NOZZLE (INCLUDES METAL BLOW OFF CAP, LANYARD, USED WITH CHROME-PLATED PIPE).	6	0
		26 – 26 – QSA-3/8 QUIK SEAL – 3/8" (UL).	6	0
		34 – 34 – A0034331 24VDC SINGLE ACTION MANUAL ACTUATION DEVICE (PUSH/PULL STATION) WITH PROTECTIVE COVER, ONE (1) NORMALLY OPEN CONTACT. RED COLOR.	1	0

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

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SHEET NO. 2

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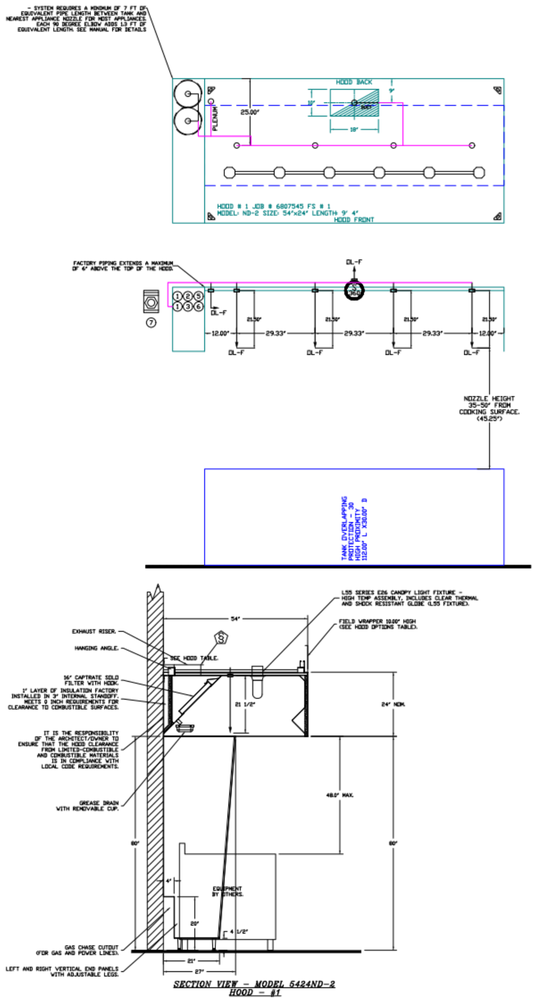
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VH	JT/SK

Project No.
CMG-4882

Contents:
CAPTIVEAIRE DRAWINGS

M901 1



SECTION VIEW - MODEL S424ND-2
HOOD - #1

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH UL. 300 REQUIREMENTS.

- DL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 6807545.
JOB NAME: CHIPOTLE RUNWAY 35N #5119.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 28. MAXIMUM FP: 40.
HOOD # 1 9' 4.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" x 18".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

LEGEND - FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE. TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES). ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE). GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

REVISIONS

	DESCRIPTION	DATE:
1		
2		
3		
4		

CAPTIVEAIRE

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www.captiveaire.com

CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024
DWG.#: 6807545
DRAWN BY: JMB-40
SCALE: 1/2" = 1'-0"
MASTER DRAWING
SHEET NO. 3

Consultant:

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COLORADO REGISTERED PROFESSIONAL ENGINEER
JOSEPH G. THOMAS
34886
Date: 09/09/2024
Exp. Date: 10/31/2025

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STORE NO.: 05-5119
RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET
Revisions:	
1 08/02/24	City Comments
2 09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

Contents:
CAPTIVEAIRE DRAWINGS

M902 1

EXHAUST FAN INFORMATION – JOB#6807545

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DUBSHFA	CAPTIVEAIRE	1900	1.200	1477	TEAD-ECM	1.000	0.5810	1	115	11.6	601 FPM	94	14.2
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.500	1181	TEAD-ECM	0.250	0.0730	1	115	2.9		50	5.1

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC-(TELCO), CCW ROTATION
		1	I 12-BDD DAMPER
		1	2 YEAR PARTS WARRANTY

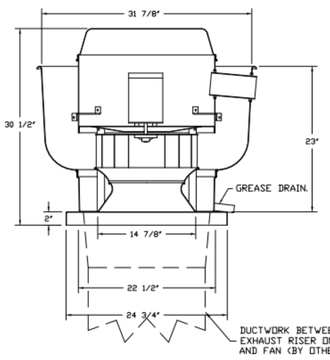
FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST			SUPPLY			
		GREASE CUP	GRAVITY DAMPER	WALL MOUNT	SIDE DISCHARGE	GRAVITY DAMPER	MOTORIZED DAMPER	WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	32 LBS	CURB	23.000"W X 23.000"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.

FAN #1 DUBSHFA - EXHAUST FAN (EF-1)



FEATURES:

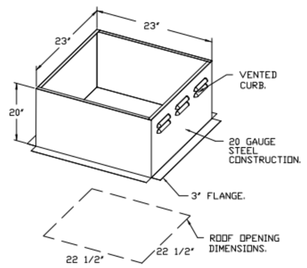
- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- RESTAURANT MODEL.
- UL705 AND UL762 AND ULC-S645
- VARIABLE SPEED CONTROL.
- INTERNAL WIRING.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).
- HIGH HEAT OPERATION 300°F (149°C).
- GREASE CLASSIFICATION TESTING.
- NEMA 3R SAFETY DISCONNECT SWITCH.

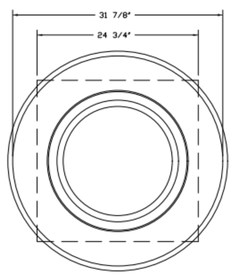
NORMAL TEMPERATURE TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING AIR AT 300°F (149°C) UNTIL ALL FAN PARTS HAVE REACHED THERMAL EQUILIBRIUM, AND WITHOUT ANY DETERIORATING EFFECTS TO THE FAN WHICH WOULD CAUSE UNSAFE OPERATION.

ABNORMAL FLARE-UP TEST
EXHAUST FAN MUST OPERATE CONTINUOUSLY WHILE EXHAUSTING BURNING GREASE VAPORS AT 600°F (316°C) FOR A PERIOD OF 15 MINUTES WITHOUT THE FAN BECOMING DAMAGED TO ANY EXTENT THAT COULD CAUSE AN UNSAFE CONDITION.

OPTIONS

- GREASE BOX.
- REMOVE HINGE KIT LABEL FROM THE FAN BASE.
- ECM WIRING PACKAGE - PWM SIGNAL FROM ECPM03 PREWIRE (TELCO MOTOR), CCW ROTATION.
- 2 YEAR PARTS WARRANTY.





TOP VIEW

REVISIONS

	DESCRIPTION	DATE:
1		
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CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024

DWG.#: 6807545

DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 4

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JOSEPH G. THOMAS
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PROFESSIONAL ENGINEER
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Exp. Date: 10/31/2025

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Checked: JT/SK

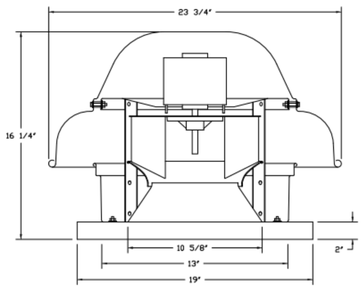
Project No.: CMG-4882

Contents:

CAPTIVEAIRE DRAWINGS

M903 1

FAN #2 DR12HFA - EXHAUST FAN (EF-2)

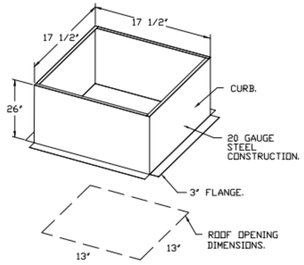


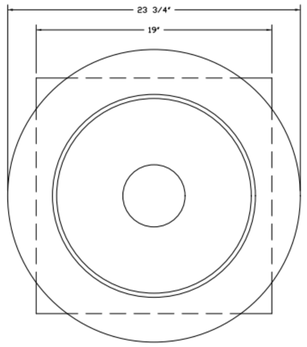
FEATURES:

- DIRECT DRIVE CONSTRUCTION (NO BELTS/PULLEYS).
- ROOF MOUNTED FANS.
- UL705.
- SAFETY DISCONNECT.
- STANDARD BIRD SCREEN.
- SPEED CONTROL.
- THERMAL OVERLOAD PROTECTION (SINGLE PHASE).

OPTIONS

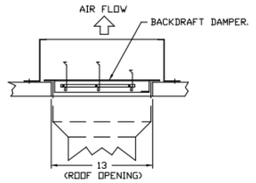
- ECM WIRING PACKAGE - EXHAUST - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -MSC- (TELCD), CCW ROTATION.
- 1 12-BDD DAMPER.
- 2 YEAR PARTS WARRANTY.





TOP VIEW

BACKDRAFT DAMPER INSTALLATION



REVISIONS

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CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024

DWG.#: 6807545

DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 5

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PROFESSIONAL ENGINEER

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DENVER, CO

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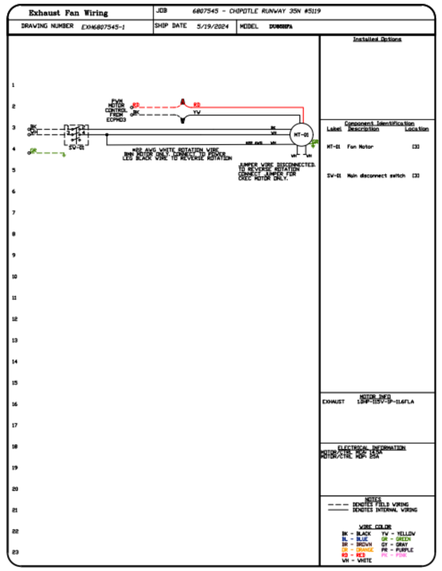
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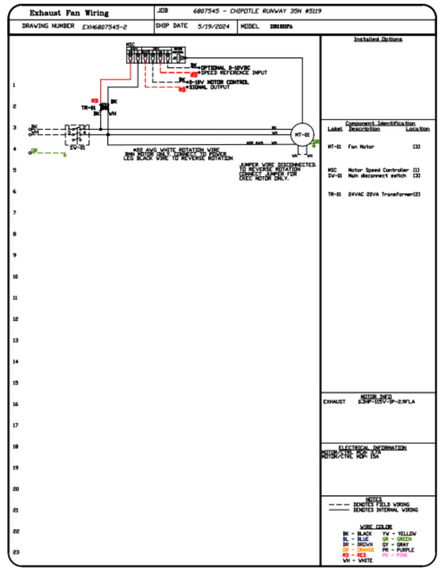
Project No.: CMG-4882

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M904 1





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DRAWN BY: JMB-40

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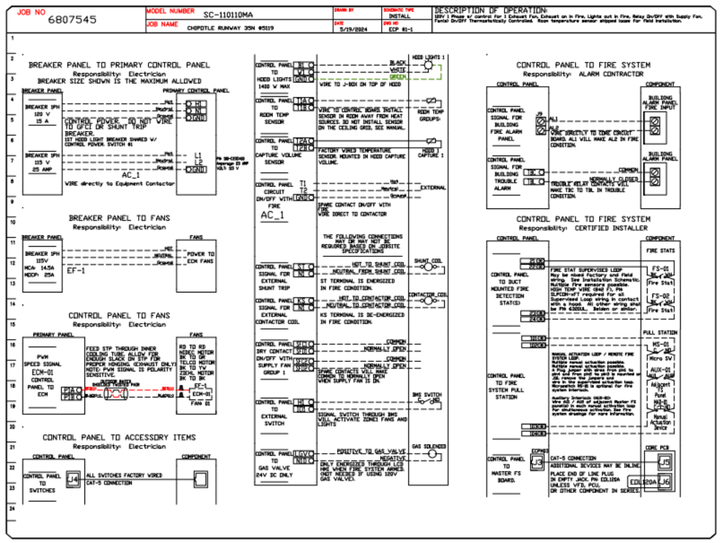
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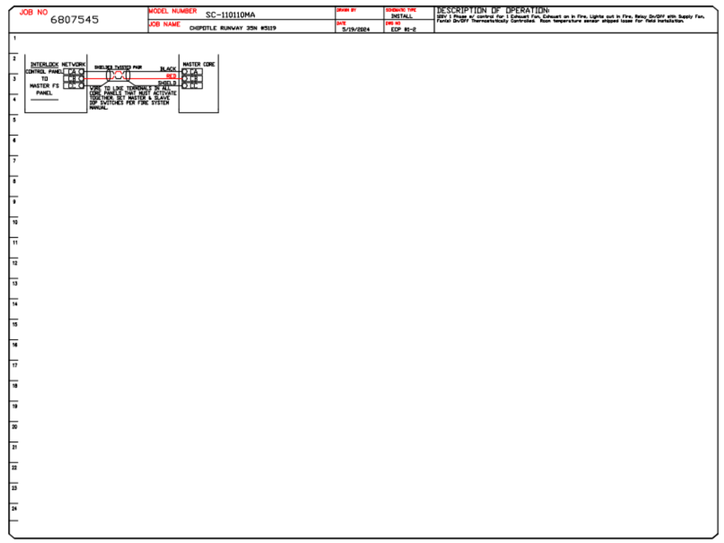
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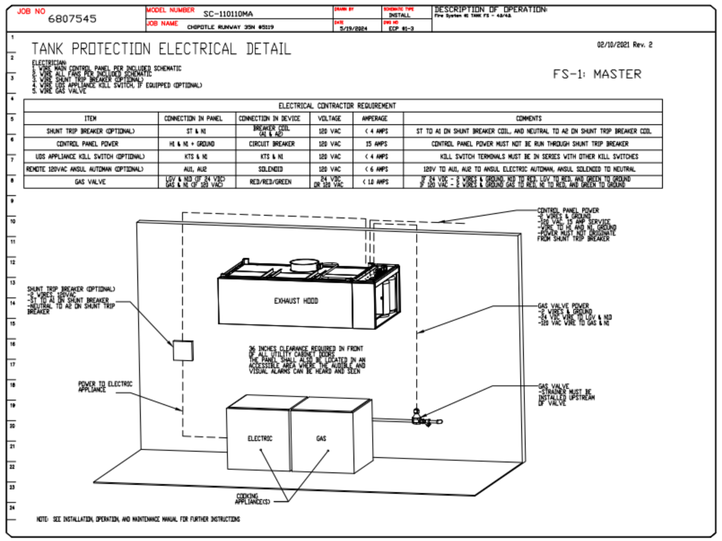
M905

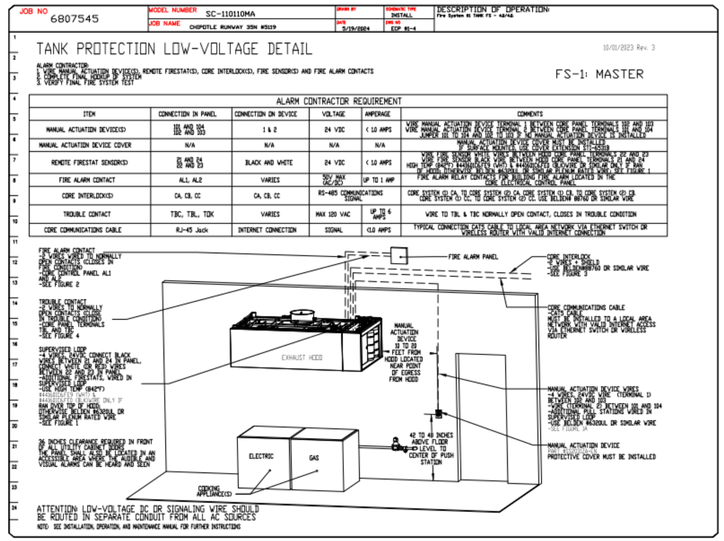
ELECTRICAL PACKAGE – JOB#6807545

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED				
				LOCATION	QUANTITY		FAN TAG	TYPE	Φ	HP	VOLT	FLA
1		SC-110110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	1	1.000	115	11.6
				HOOD # 1	1 FAN							









REVISIONS

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CHIPOTLE RUNWAY 35N #5119
DENVER, CO, 80238

DATE: 5/19/2024

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DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 7

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Project No.
CMG-4882

Contents:
CAPTIVEAIRE DRAWINGS

M906 1

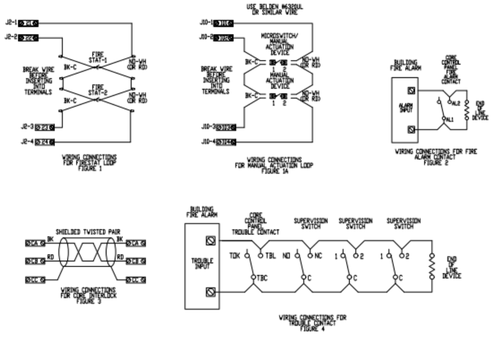
JOB NO 6807545 | MODEL NUMBER SC-110110MA | JOB NAME CHIPOTLE RUNWAY 35N #5119 | DRAWN BY JMB-40 | DATE 5/19/2024 | SCHEMATIC TYPE INSTALL | SHEET NO. CP #1-5

DESCRIPTION OF OPERATION:
Fire System #1 TANK FS - 48/48.

TANK PROTECTION LOW-VOLTAGE FIGURES

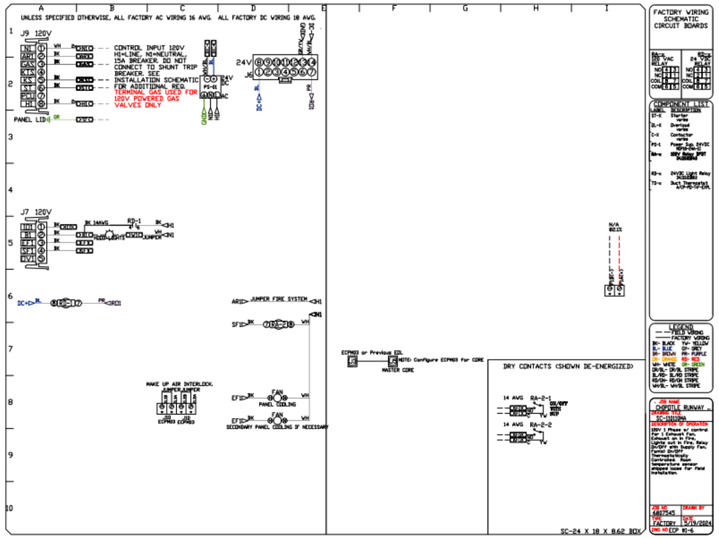
10/01/2023 Rev. 17

FS-1: MASTER



ATTENTION: LOW-VOLTAGE DC OR SIGNALING WIRE SHOULD BE ROUTED IN SEPARATE CONDUIT FROM ALL AC SOURCES

NOTE: SEE INSTALLATION, OPERATION, AND MAINTENANCE MANUAL FOR FURTHER INSTRUCTIONS



FACTORY WIRING SCHEMATIC CIRCUIT BOARDS

COMPONENT LIST

LEGEND

CHIPOTLE SURVAY

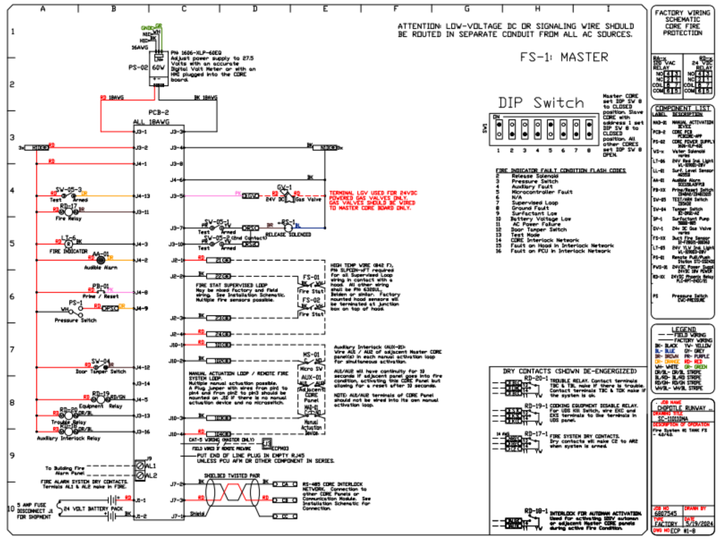


FACTORY WIRING SCHEMATIC CIRCUIT BOARDS
DCV Rev. 2.10.00
HMI Rev. 2.10.00

COMPONENT LIST

LEGEND

CHIPOTLE SURVAY



FACTORY WIRING SCHEMATIC CORE FIRE PROTECTION

COMPONENT LIST

LEGEND

CHIPOTLE SURVAY

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DATE: 5/19/2024

DWG.#: 6807545

DRAWN BY: JMB-40

SCALE: 3/4" = 1'-0"

MASTER DRAWING

SHEET NO. 8

STORE NO.: 05-5119
RUNWAY 35N 8968 E. 46TH AVE
DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH | Checked: JT/SK

Project No. CMG-4882

Contents: CAPTIVEAIRE DRAWINGS

M907 1

SECTION 15055 - COMMON PIPING REQUIREMENTS
PART 1 - GENERAL
A. SECTION REQUIREMENTS
1. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install piping free of sags and bends.
B. Install fittings for changes in direction and branch connections.
C. Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Install unions adjacent to each valve and at final connection to each piece of equipment.
G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
I. Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.
3.2 HANGERS AND SUPPORTS
A. Install building attachments within concrete or to structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and at changes in direction of piping.
B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
D. Support fire protection system piping independent of other piping.
E. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Coat glass fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
1. Domestic cold, hot, and recirculation water pipes.
2. Exposed sanitary drains and water supply pipes for public hand sinks.
3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
1. Flexible connectors.
2. Fire protection piping systems.
3. Sanitary drainage and vent piping.
4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
1. Domestic Hot and Recirculation water pipes: 1-inch preformed glass fiber pipe insulation.
2. Domestic Cold Water: 1/2-inch preformed glass fiber pipe insulation.
3. P-Trap and Fixture Supplies for public hand sinks: ADA-compliant pre-formed insulation.
END OF SECTION 15080

SECTION 15110 - VALVES
PART 1 - GENERAL (Not Applicable)
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder-joint connections shall comply with ANSI B16.18.
B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure; 2 piece construction; with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.
D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y-pattern, and bronze disc.
E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
F. Valves for Steel Pipe: Threaded ends.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Use gate and ball valves for shutoff duty and ball for throttling duty.
B. Locate valves for easy access and provide separate support where necessary.
C. Install accessible valves for each fixture and item of equipment.
D. Install valves in horizontal piping with stem at or above center of pipe.
E. Install valves in a position to allow full stem movement.
F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:
1. Service Entrance Piping: 100 psig.
2. Domestic Water Piping: 80 psig.
B. Comply with NSF 14 "Plastic Piping Components and Materials."
C. Comply with NSF 61 "Drinking Water System Components -- Health Effects."
PART 2 - PRODUCTS
2.1 PIPES AND TUBES (See Material Schedule on sheet P010 for where these materials are to be used)
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
B. PVC Plastic, Water Pipe: ASTM D 1785, Schedule 80, plain ends.
2.2 FITTINGS
A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.
D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded, or solder joint and threaded ends. Threads complying with ASME B 1.20.1.
E. PVC Plastic, Schedule 80, Socket Type Pipe Fittings: ASTM D 2467.
2.3 JOINING MATERIALS
A. Solder Filler Metal: ASTM B 32, lead free.
B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.
C. Solvent Cements: As recommended by manufacturer.
D. Plastic Pipe Seals: ASTM F 477, elastomeric gasket.
PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having stops on supplies, and elsewhere as indicated.
C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
D. Install swing check valve on discharge side of each pump and elsewhere as indicated.
E. Install ball valves in each hot water circulating loop and discharge side of each pump.
3.2 PIPING INSTALLATIONS
A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.
B. Support vertical piping at each floor.
3.3 INSPECTING AND CLEANING
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.
B. Comply with NSF 14 "Plastic Piping Components and Related Materials".
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2.2 FITTINGS
A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket type; drain, waste, and vent pipe patterns.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.2 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15410 - PLUMBING FIXTURES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
Submittals: None.
A. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
B. Comply with applicable standards below:
1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
2. National Sanitation Foundation Construction: NFS2.
3. Porcelain Enameled Fixtures: ASME A112.19.4M.
4. Slip Resistant Bathing Surfaces: ASTM F 462.
5. Stainless Steel Fixtures: ASME A112.19.3M.
6. Vitreous China Fixtures: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 Refer to the fixture schedule on drawing P600
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fixtures with flanges and gasket seals.
B. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for the disabled to reach.
C. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
D. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
E. Fasten wall mounted fittings to reinforcement built into walls.
F. Fasten counter mounted plumbing fixtures to casework.
G. Secure supplies to supports or substrate within pipe space behind fixture.
H. Set mop basins in leveling bed of cement grout.
I. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
J. Install water supply stop valves in accessible locations.
K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated or required by the Authority Having Jurisdiction.
L. Install full-ring escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
M. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
N. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15554 - FLUES AND VENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/air intake for high efficiency domestic water heater. Follow manufacturer's recommendations for sizing and material.
B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thimbles, firestopping spacers, and fasteners; fabricated of similar materials and designs as vent-pipe straight sections.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vents according to stipulated minimum clearances from combustibles.
B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.
C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.
END OF SECTION 15554

PLUMBING SYMBOLS

	ELBOW UP
	ELBOW DOWN
	DOMESTIC COLD WATER
F	DOMESTIC FILTERED COLD WATER
S	DOMESTIC SOFTENED COLD WATER
	DOMESTIC HOT WATER (110 DEGREES)
	DOMESTIC HOT WATER RECIRC.
G	GAS
G	GAS (ON ROOF)
	SANITARY WASTE
GW	GREASE WASTE
	SANITARY VENT
CD	CONDENSATE DRAIN
X	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	CONNECT TO EXISTING
	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
WM	WATER METER
GM	GAS METER
XX-#	EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P600 FOR EQUIPMENT INFORMATION
	VALVE
	SOLENOID-OPERATED VALVE
	WALL HYDRANT/ROOF HYDRANT
	CHECK VALVE
	CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
	FLOOR DRAIN
	FLOOR SINK
	CLEANOUT

COMMISIONING PLAN - 2022 DENVER ENERGY CODE

THE FOLLOWING SYSTEMS SHALL BE COMMISSIONED BY A COMMISINING AGENT HIRED BY PLUMBING CONTRACTOR TO THE STANDARDS STATED BELOW AND PER IECC 2018:

- DWH-1

1. "FUNCTIONAL PERFORMANCE TESTING". SHALL BE CONDUCTED.

1.1 "EQUIPMENT". EQUIPMENT FUNCTIONAL PERFORMANCE TESTING SHALL DEMONSTRATE THE INSTALLATION AND OPERATION OF COMPONENTS, SYSTEMS, AND SYSTEM-TO-SYSTEM INTERFACING RELATIONSHIPS IN ACCORDANCE WITH APPROVED PLANS AND SPECIFICATIONS SUCH THAT OPERATION, FUNCTION, AND MAINTENANCE SERVICEABILITY FOR EACH OF THE COMMISSIONED SYSTEMS IS CONFIRMED. TESTING SHALL INCLUDE ALL MODES AND SEQUENCES OF OPERATION, INCLUDING UNDER FULL-LOAD, PART-LOAD AND THE FOLLOWING EMERGENCY CONDITIONS:

2. "PRELIMINARY COMMISSIONING REPORT". A PRELIMINARY REPORT OF COMMISSIONING TEST PROCEDURES AND RESULTS SHALL BE COMPLETED AND CERTIFIED BY THE REGISTERED DESIGN PROFESSIONAL OR APPROVED AGENCY AND PROVIDED TO THE BUILDING OWNER. THE REPORT SHALL BE IDENTIFIED AS "PRELIMINARY COMMISSIONING REPORT" AND SHALL IDENTIFY:

A. ITEMIZATION OF DEFICIENCIES FOUND DURING TESTING REQUIRED BY THIS SECTION THAT HAVE NOT BEEN CORRECTED AT THE TIME OF REPORT PREPARATION.
B. DEFERRED TESTS THAT CANNOT BE PERFORMED AT THE TIME OF REPORT PREPARATION BECAUSE OF CLIMATIC CONDITIONS.
C. CLIMATIC CONDITIONS REQUIRED FOR PERFORMANCE OF THE DEFERRED TESTS.

2.1 "ACCEPTANCE OF REPORT". BUILDINGS, OR PORTIONS THEREOF, SHALL NOT PASS THE FINAL MECHANICAL INSPECTION UNTIL SUCH TIME AS THE CODE OFFICIAL HAS RECEIVED A LETTER OF TRANSMITTAL FROM THE BUILDING OWNER ACKNOWLEDGING THAT THE BUILDING OWNER HAS RECEIVED THE PRELIMINARY COMMISSIONING REPORT.

2.2 "COPY OF REPORT". THE CODE OFFICIAL SHALL BE PERMITTED TO REQUIRE THAT A COPY OF THE PRELIMINARY COMMISSIONING REPORT BE MADE AVAILABLE FOR REVIEW BY THE CODE OFFICIAL.

3. "DOCUMENTATION REQUIREMENTS". THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT THE DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER WITHIN 90 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

3.1 "DRAWINGS". CONSTRUCTION DOCUMENTS SHALL INCLUDE THE LOCATION AND PERFORMANCE DATA ON EACH PIECE OF EQUIPMENT.
3.2 "MANUALS". AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE ALL OF THE FOLLOWING:

A. SUBMITTAL DATA STATING EQUIPMENT SIZE AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
B. MANUFACTURER'S OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE, EXCEPT EQUIPMENT NOT FURNISHED AS PART OF THE PROJECT. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
C. NAME AND ADDRESS OF AT LEAST ONE SERVICE AGENCY.
D. HVAC CONTROLS SYSTEM MAINTENANCE AND CALIBRATION INFORMATION, INCLUDING WIRING DIAGRAMS, SCHEMATICS, AND CONTROL SEQUENCE DESCRIPTIONS. DESIRED OR FIELD-DETERMINED SETPOINTS SHALL BE PERMANENTLY RECORDED ON CONTROL DRAWINGS AT CONTROL DEVICES OR, FOR DIGITAL CONTROL SYSTEMS, IN SYSTEM PROGRAMMING INSTRUCTIONS.
E. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SETPOINTS.

3.3 "SYSTEM BALANCING REPORT". A WRITTEN REPORT DESCRIBING THE ACTIVITIES AND MEASUREMENTS COMPLETED IN ACCORDANCE WITH DENVER ENERGY CODE.
3.4 "FINAL COMMISSIONING REPORT". A REPORT OF TEST PROCEDURES AND RESULTS IDENTIFIED AS "FINAL COMMISSIONING".

REPORT SHALL BE DELIVERED TO THE BUILDING OWNER AND SHALL INCLUDE:

1. RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
2. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.
3. FUNCTIONAL PERFORMANCE TEST PROCEDURES USED DURING THE COMMISSIONING PROCESS INCLUDING MEASURABLE CRITERIA FOR TEST ACCEPTANCE, PROVIDED HEREIN FOR REPEATABILITY.

PLUMBING ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
CW	DOMESTIC COLD WATER
DN	DOWN
EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FOH	FRONT OF HOUSE
FS	FLOOR SINK
FW	DOMESTIC FILTERED COLD WATER
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GT	GREASE TRAP
GW	GREASE WASTE
GYP	GYPSUM BOARD
HW	DOMESTIC HOT WATER
NTS	NOT TO SCALE
O/H	OVERHEAD
SAN	SANITARY WASTE

PLUMBING ABBREVIATIONS

ST	STORM SEWER
SW	DOMESTIC SOFTENED COLD WATER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WIC	WALK-IN COOLER
C02AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PLUMBING GENERAL NOTES

A GENERAL NOTES APPLY TO PLUMBING SHEETS.
B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
E PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
F PROVIDE STOP VALVES AT FIXTURES.
G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON SHEET P100.
H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 8/P700.
K PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
M PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
N THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
O PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
P PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.

PLUMBING MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
NATURAL GAS PIPE		
	CONCEALED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCH. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED
SANITARY WASTE & VENT PIPE		
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS
WATER SUPPLY PIPE		
	ABOVE GRADE	TYPE L COPPER TUBE

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Date: 09/09/2024
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Contents:
PLUMBING SPECIFICATIONS

P010

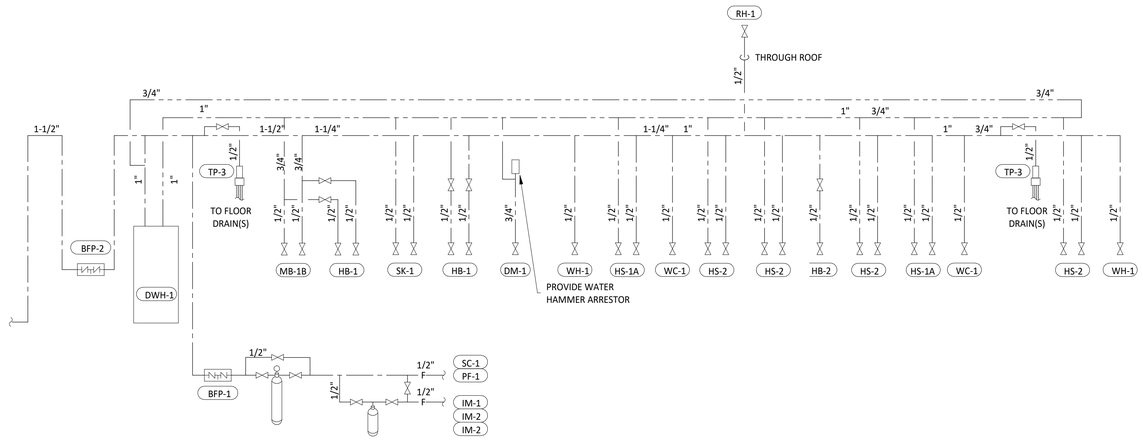
PLUMBING SUPPLY PLAN NOTES

1 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 1-1/2" DOMESTIC WATER SERVICE.
2 PROVIDE 1/2" FILTERED WATER TO THE BAG-IN-BOX SODA CARBONATOR AT 102" AFF. SODA CARBONATOR SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.
3 PROVIDE WATER HEATERS DWH-1 PER DETAIL 1/P700.
4 PROVIDE WATER FILTERS MOUNTED TO WALL PER DETAIL 11/P700. PROVIDE 1/2" SUPPLY PIPES FROM FILTERS TO ICE MAKER AND SODA CARBONATOR AS SHOWN.
5 PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 56" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
6 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE MOP BASIN FAUCET AT 36" AFF. PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 64" AFF DIRECTLY ABOVE THE MOP BASIN FAUCET. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
7 NOT USED.
8 NOT USED.
9 NOT USED.
10 NOT USED.
11 NOT USED.
12 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
13 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
14 PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 14/P700.
15 NOT USED.
16 CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.
17 PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
18 PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
19 NOT USED.
20 NOT USED.
21 PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER.
22 INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
23 PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN.
24 PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING 3/4" COPPER PIPE ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FLEXIBLE CONNECTION IS NOT ACCEPTABLE). PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSABLE SHUTOFF VALVE AND UNION BELOW THE DISH MACHINE AND INSTALL THE STRAINER FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
25 PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
26 PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27 CONNECT TO EXISTING 1-1/2" DCW. FIELD VERIFY EXISTING LOCATION.
28 INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
29 PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
30 PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S)

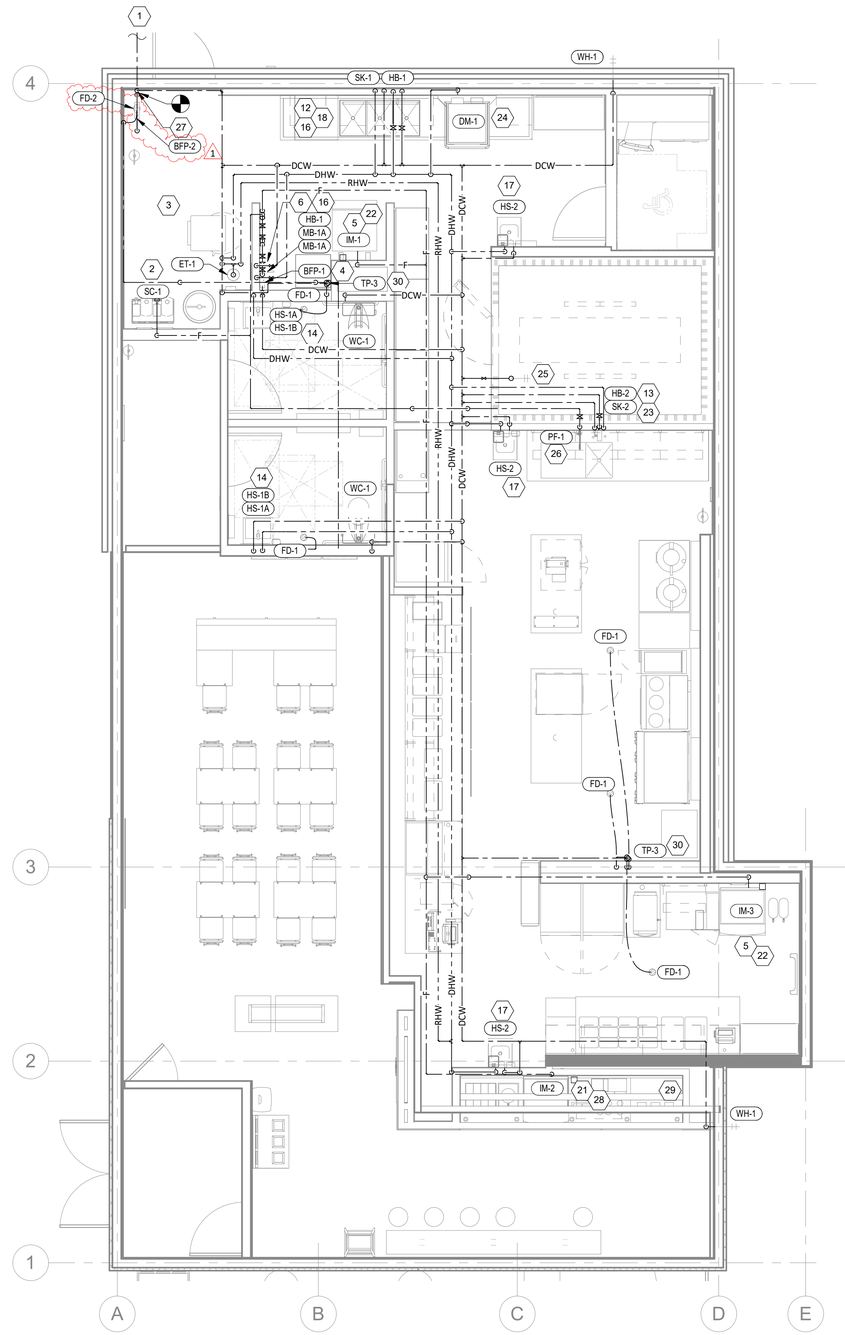
PLUMBING FIXTURE SUPPLY CONNECTIONS

ROUGH-IN TYPE KEY	
ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)
ANGLE 1/2"	BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE
HOSE 1/2"	ARROWHEAD BRASS WM50F OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.

TAG	DESCRIPTION	CONNECTION SIZE CW	CONNECTION SIZE HW	ROUGH-IN TYPE	WSFU CW	WSFU HW	WSFU TOTAL	COUNT	TOTAL WSFU
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	0	0	0	1	0
BFP-2	RPZ BACKFLOW PREVENTER	1 1/2"		DIRECT	0	0	0	1	0
DM-1	DISH SANITIZING MACHINE (VENTLESS & PUMPED OUTLET)	1/2"	3/4"	ANGLE 3/4"	1	3	3	1	3
ET-1	EXPANSION TANK	3/4"			0		0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"		2.25	2.25	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"			1.5		1.5	1	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"		1.5	1.5	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"		1.5	1.5	2	3	6
IM-1	ICE MAKER - BOH	1/2"		HOSE 1/2"	1		1	1	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
IM-3	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
MB-1B	MOP SINK FAUCET	1/2"	1/2"		2.25	2.25	3	1	3
PF-1	SPEED FILL FAUCET	3/8"			1.5		1.5	1	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"			1		1	1	1
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	1/2"		ANGLE 3/8"	1		1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"		3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"		3	3	4	1	4
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	1/2"			0		0	2	0
WC-1	WATER CLOSET	1/2"			2		2	2	4
WH-1	FREEZE PROOF WALL HYDRANT (E)	3/4"			1		1	2	2
GRAND TOTAL									44



1 P100 **PLUMBING SUPPLY DIAGRAM**
1/4" = 1'-0"



5 P100 **PLUMBING SUPPLY PLAN**
1/4" = 1'-0"

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Issue Record:

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Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK
Project No.: CMG-4882
Contents:

PLUMBING PLAN WATER

P100

PLUMBING WASTE AND VENT PLAN NOTES

1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFF.

2 PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.

3 COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.

4 NOT USED.

5 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.

6 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.

7 CONNECT TO EXISTING GREASE WASTE LINE, FIELD VERIFY EXACT LOCATION.

8 CONNECT TO EXISTING SANITARY LINE, FIELD VERIFY EXACT LOCATION.

9 PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.

10 PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.

11 TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.

12 NOT USED.

13 DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.

14 PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

15 PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

16 PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.

17 INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.

18 PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.

19 SEE DETAIL 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.

20 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" STORM SEWER.

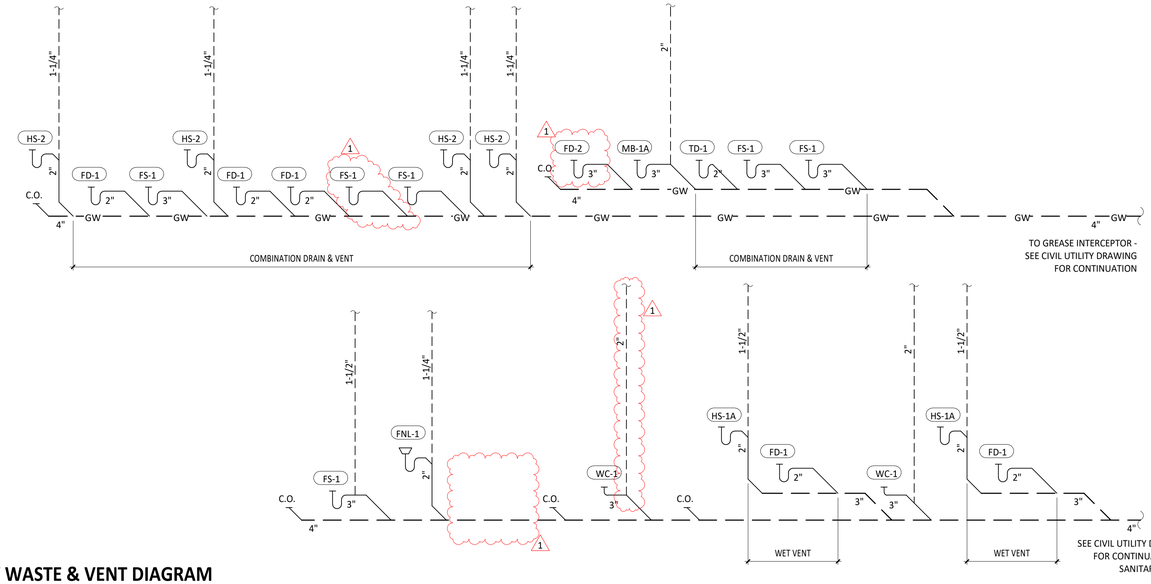
21 PROVIDE 3" STORM DRAIN CONDUCTOR FROM PRIMARY ROOF DRAIN RD-1 DOWN IN WALL TO 4" STORM DRAIN BELOW GRADE. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.

22 PROVIDE 3" STORM DRAIN CONDUCTOR FROM SECONDARY ROOF DRAIN RD-2 TO DOWNSPOUT NOZZLE DN-1 MOUNTED AT 12" AFG. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.

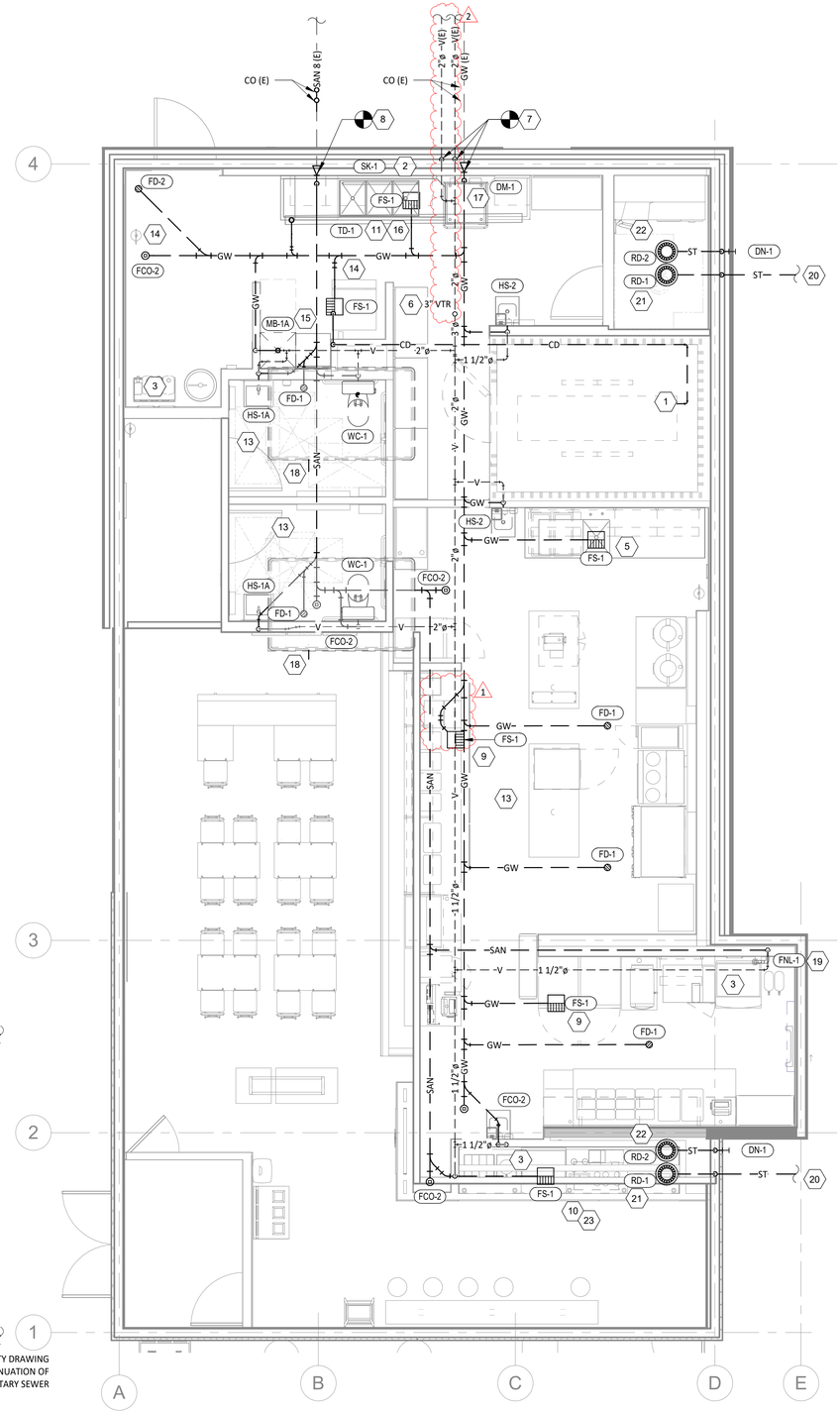
23 PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.

PLUMBING FIXTURE WASTE CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
DM-1	DISH SANITIZING MACHINE (VENTLESS & PUMPED OUTLET)	5/8"	7	1	7
FCO-2	FLOOR CLEANOUT (4")	4"	0	5	0
FD-1	FLOOR DRAIN	2"	2	5	10
FD-2	FLOOR DRAIN	4"	6	1	6
FNL-1	FUNNEL DRAIN	2"	2	1	2
FS-1	FLOOR SINK	3"	5	6	30
HS-1A	RESTROOM HAND SINK	2"	1	2	2
HS-2	KITCHEN HAND SINK	2"	1	3	3
MB-1A	MOP BASIN	3"	2	1	2
SK-1	THREE COMPARTMENT SINK	2"	0	1	0
SK-2	PREP SINK	2"	0	1	0
TD-1	TRENCH DRAIN	2"	2	1	2
WC-1	WATER CLOSET	3"	4	2	8
GRAND TOTAL					72



2/P110 **SANITARY WASTE & VENT DIAGRAM**
NOT TO SCALE



1/P110 **SANITARY WASTE & VENT PLAN**
1/4" = 1'-0"

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JOSEPH G. THOMAS
34886
Date: 09/06/2024
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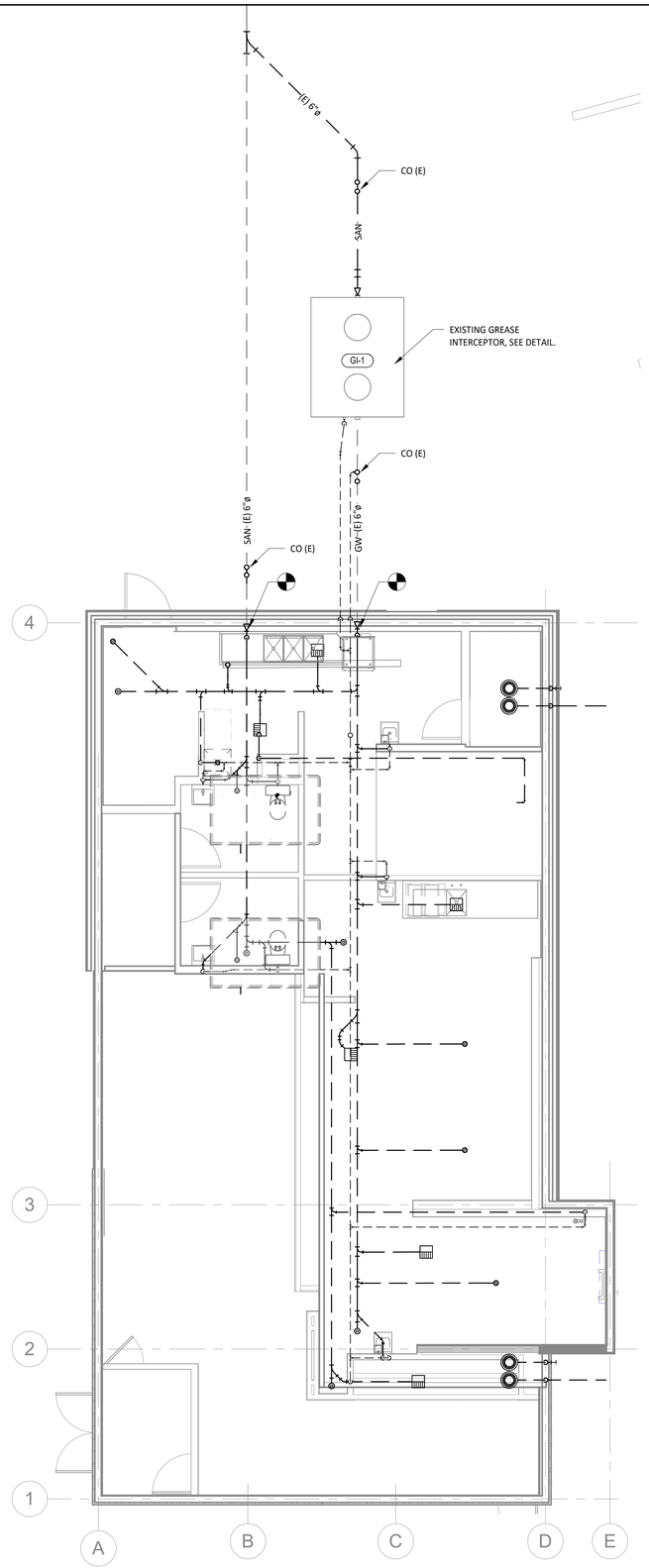
1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:
PLUMBING PLAN WASTE & VENT

P110



1 P120 **SANITARY GRASE INTERCEPTOR PLAN**
3/16" = 1'-0"

Data Entered:

Cooking	
Appliance	Quantity
stove(s)/griddle(s)	2
oven(s)	0
broiler(s)	0
fryer(s)	1
wok(s)	0

Drainage Fixtures	
Fixture	Quantity
3 comp or 2 comp sink	1
Pot Sink	1
Mop Sink	1
Floor Sink	5
Hand Sink	3
Garbage Disposal	0
Dishwasher	1

Establishment Information	
Majority Take Out?	Yes
Seating Capacity	49
Hours of Operation	11.25
Peak Meals Per Day	400
Peak meals Per Hour	100
Total CUF	4.5

Required Grease Interceptor Size:
1102.5 **Gallons**

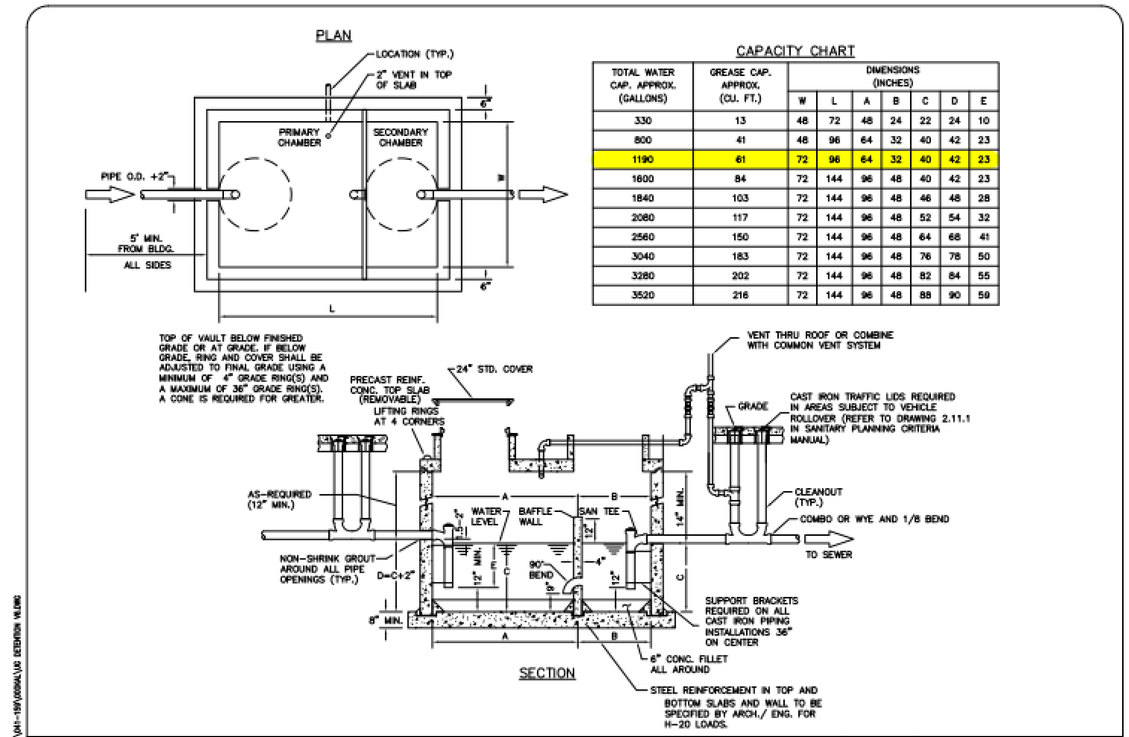
The minimum interceptor size for your project is 800 gallons

Is the information shown incorrect? Enter the correct value above and select "Update Information" below

Update Information

Create Printer-Friendly Version

2 P120 **SANITARY GREASE INTERCEPTOR CALCULATION**
NOT TO SCALE



CAPACITY CHART

TOTAL WATER CAP. APPROX. (GALLONS)	GREASE CAP. APPROX. (CU. FT.)	DIMENSIONS (INCHES)						
		W	L	A	B	C	D	E
330	13	48	72	48	24	22	24	10
800	41	48	96	64	32	40	42	23
1190	61	72	96	64	32	40	42	23
1600	84	72	144	96	48	40	42	23
1840	103	72	144	96	48	46	48	28
2080	117	72	144	96	48	52	54	32
2560	150	72	144	96	48	64	68	41
3040	183	72	144	96	48	76	78	50
3280	202	72	144	96	48	82	84	55
3520	216	72	144	96	48	88	90	59

Grease Interceptor

REVISED		CITY AND COUNTY OF DENVER DEPARTMENT OF PUBLIC WORKS WASTEWATER MANAGEMENT DIVISION
BY	DATE	Grease Interceptor
		ISSUE DATE JAN. 2013

3 P120 **SANITARY GREASE ITERCEPTOR DETAIL**
NOT TO SCALE

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Drawn: Author
Checked: Checker

Project No.
CMG-4882

Contents:
PLUMBING PLAN GREASE INTERCEPTOR

P120 2

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	COUNT	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE FIXTURE UNITS
				MANUFACTURER	MODEL			CW	HW	WASTE	CW	HW	TOTAL	
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			0	0	0	
BFP-2	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-207	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE AND AIR GAP FITTING	1	1 1/2"			0	0	0	
DM-1	DISH SANITIZING MACHINE (VENTLESS & PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER, VENTLESS ACCESSORY, AND PUMPED OUTLET	1	1/2"	3/4"	5/8"	1	3	3	7
DN-1	DOWNSPOUT NOZZLE	GC	GC	WATTS	RD-950	STAINLESS STEEL DOWNSPOUT COVER WITH PERFORATED HINGED STRAINER	2			3"				
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0		0	
FCO-2	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	5			4"				0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	5	1/2"		2"				2
FD-2	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-4-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	1	1/2"		4"				6
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"				2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	6			3"				5
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	2	1/2"	1/2"		2.25	2.25	3	
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	SILL FAUCET WITH NPT FEMALE INLET	1	1/2"			1.5		1.5	
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	2			2"				1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	2	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	3	1/2"	1/2"	2"	1.5	1.5	2	1
IM-1	ICE MAKER - BOH	KES	KES	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN (STANDARD CAPACITY REMOTE AIR COOLED)	1	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)	1	1/2"			1		1	
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (REMOTE AIR COOLED)	1	1/2"			1		1	
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND NPT FEMALE INLET	1	3/8"			1.5		1.5	
RD-1	ROOF DRAIN (PRIMARY)	GC	GC	WATTS	RD-103	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF-LOCKING POLYETHYLENE DOME, AND NO HUB OUTLET	2			3"				
RD-2	ROOF DRAIN (OVERFLOW)	GC	GC	WATTS	RD-103-W	EPOXY COATED CAST IRON OVERFLOW ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL 4 IN. (102MM) HIGH INTERNAL STANDPIPE, SELF-LOCKING POLYTHYLENE DOME, AND NO HUB OUTLET	2			3"				
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"			1		1	
SC-1	BAG-IN-BOX SODA RACK WITH CARBONATORS	SPS	SPS	SEE ARCH	--	SODA CARBONATOR(S) SHALL HAVE AN INTEGRAL ASSE 1022-RATED CARBONATED BEVERAGE BACKFLOW PREVENTION DEVICE.	1	1/2"			1		1	
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	Z886 8601 8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"				2
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	2	1/2"			0		0	
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -RA TO THE MODEL #FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	2		2	4
WH-1	FREEZE PROOF WALL HYDRANT (E)	GC	GC	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	2	3/4"			1		1	

WATER HEATER SCHEDULE

TAG	DESCRIPTION	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	FLA	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (ELECTRIC HEAT PUMP TANK)	14 kW	67 A	208/1/60	WHS	GC	A.O. SMITH	CHP-120	TANK VOLUME: 119 GALLONS RECOVERY: 129 GAL/HR @ 70°F RISE IN HYBRID MODE

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Date: 09/09/2024
Exp. Date: 10/31/2025

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DENVER, CO

Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

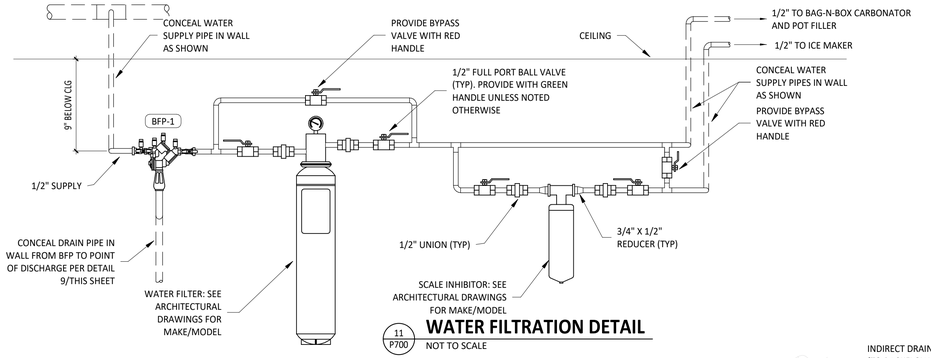
Drawn: VH
Checked: JT/SK

Project No.: CMG-4882

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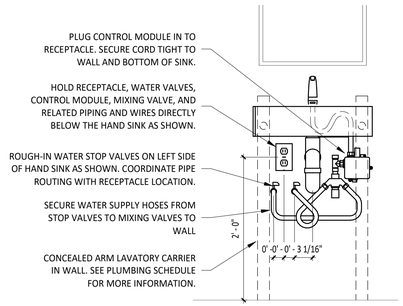
PLUMBING SCHEDULES

P600



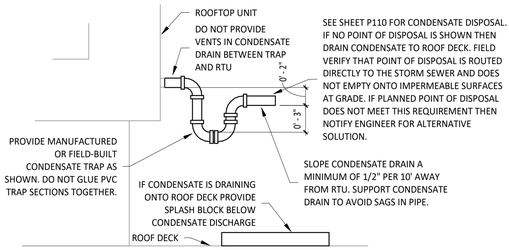
WATER FILTRATION DETAIL

11 / P700 NOT TO SCALE



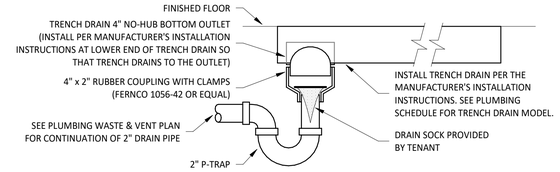
RESTROOM HAND SINK DETAIL

14 / P700 NOT TO SCALE



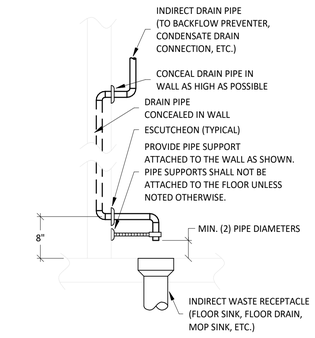
RTU CONDENSATE TRAP DETAIL

13 / P700 NOT TO SCALE



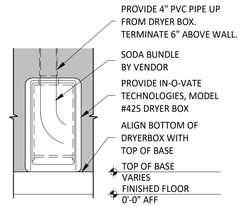
TRENCH DRAIN DETAIL

15 / P700 NOT TO SCALE



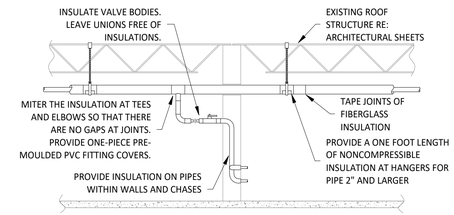
INDIRECT WASTE PIPING DETAIL

9 / P700 NOT TO SCALE



SODA TERMINATION DETAIL

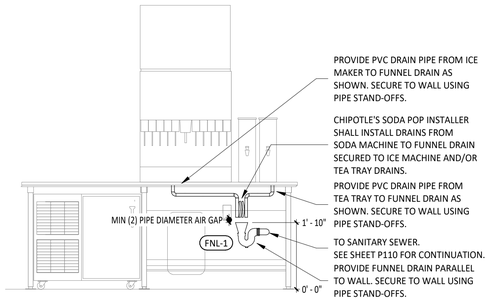
12 / P700 NOT TO SCALE



PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.
PIPING SERVING AS PART OF A HEATING OR COOLING SYSTEM SHALL BE THERMALLY INSULATED IN ACCORDANCE WITH TABLE C403.12.3. PER DENVER MECHANICAL CODE.

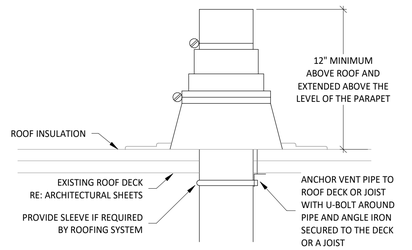
PIPE INSULATION DETAIL

8 / P700 NOT TO SCALE



PUW FUNNEL DRAIN DETAIL

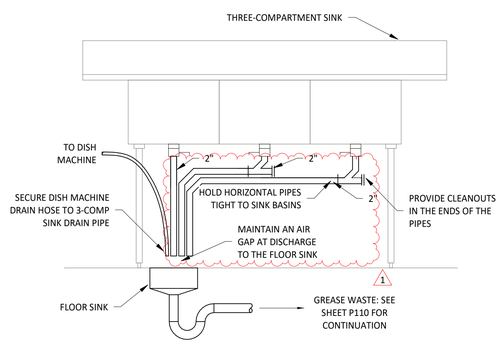
7 / P700 NOT TO SCALE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.

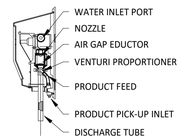
VENT THROUGH ROOF

3 / P700 NOT TO SCALE



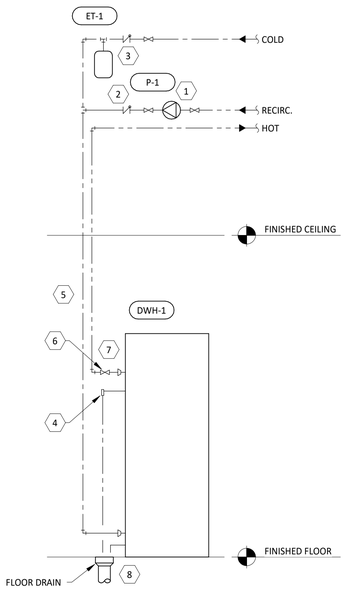
WARE-WASHING SINK DETAIL

2 / P700 NOT TO SCALE



CHEMICAL DISPENSER DETAIL

10 / P700 NOT TO SCALE



WATER HEATER DETAIL NOTES

1. PROVIDE RECIRCULATION PUMP P-1 AS SHOWN. SUPPORT PUMP FROM WALL OR STRUCTURE ABOVE. CONTROLS FOR CIRCULATING HOT WATER SYSTEM PUMPS SHALL AUTOMATICALLY TURN OFF THE PUMP WHEN THE WATER IN THE CIRCULATION LOOP IS AT THE DESIRED TEMPERATURE AND WHEN THERE IS NOT A DEMAND FOR HOT WATER. THE CONTROLS SHALL LIMIT THE TEMPERATURE OF THE WATER ENTERING THE COLD WATER PIPING TO NOT GREATER THAN 104°F (40° C).
2. PROVIDE LINE-SIZE CHECK VALVES IN COLD AND RECIRCULATION WATER PIPES AS SHOWN.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
5. INSULATE EXPOSED AND CONCEALED HOT AND COLD WATER PIPING TO WITHIN 3" OF THE WATER HEATER.
6. PROVIDE LINE-SIZE BALL VALVES IN COLD AND HOT WATER PIPES AS SHOWN.
7. IF THE COLD OR HOT PIPE LINE SIZE AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTION SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
8. PIPE PRESSURE RELIEF VALVE DISCHARGE TO THE FLOOR DRAIN. DRAIN THROUGH AN AIR GAP.

WATER HEATER GENERAL NOTES

A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F. VERTICAL WATER PIPES CONNECTING TO THE INLET AND OUTLET OF THE TANK SHALL BE PROVIDED WITH INTEGRAL HEAT TRAPS AT THOSE INLETS AND OUTLETS OR SHALL HAVE PIPE-CONFIGURED HEAT TRAPS IN THE PIPING CONNECTED TO THOSE INLETS AND OUTLETS. TANK INLETS AND OUTLETS ASSOCIATED WITH SOLAR WATER HEATING SYSTEM CIRCULATION LOOPS SHALL NOT BE REQUIRED TO HAVE HEAT TRAPS.

WATER HEATER DETAIL

1 / P700 1/4" = 1'-0"

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Drawn: VH
Checked: JT/SK

Project No.
CMG-4882

Contents:

PLUMBING DETAILS

P700

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 5/6/2024

GENERAL		RESPONSE	SUBMITTER NOTES	
Indicate if the project scope includes any of the following	New construction (Y/N):	Y		
	Addition (Y/N):	N		
	Change of occupancy or use (Y/N):	N		
	Tenant build out (Y/N):	Y		
	Tenant finish in a previously occupied space (Y/N):	N		
	Core and shell only (Y/N):	N		
	New parking (Y/N):	Y		New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		2,400 GROSS 2,225 NET NT SHELL/TENANT FINISH		
Property type	Is this an all-electric property? (Y/N):	Y	E SERIES SHEETS	**ALL-ELECTRIC PROPERTY.** A property on a single assessment parcel with an accompanying legally described area of land as shown on a site plan, that, except for emergency power systems and standby power systems : 1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for *fuel gas* or fuel oil or fuel gas utility connection, installed within the *building*(s) or *site* ; or, 2) Contains at least one new stand-alone all-electric building where the property includes existing *fuel gas* or fuel oil infrastructure built under a code effective prior to May 1, 2023
ENERGIZE DENVER				
C103.2.3	Final 2030 target EUI required by Energize Denver	Enter the final 2030 target EUI required by Energize Denver (Art. XIV, Ch. 10 (Buildings and building regulations), DRMC) applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver Building Energy Performance Requirements document available from the Office of Climate Action, Sustainability and Resiliency. Applies to buildings 25,000 sf and larger.	N/A		Enter EUI in Response box. Indicate location of: - Supplemental calculations if applicable - See Technical Guidance for Target Adjustments Appendix A 2030 Targets

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.1.1.5	Building Thermal Envelope Performance Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado-registered design professional or approved agency and a final commissioning report provided.	Y	G0720 - WEATHER BARRIERS, G012, A420 - A429	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & M010	Indicate location of: - Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G001, G001.2 & P010	Indicate location of: - Letter with qualifications of the of the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G001 & G001.2	Indicate location of: - Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	Per new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1 Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C405.14 / APPENDIX CB - SOLAR ACCESS					
C405.14 CB 103.1 CB 103.3 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low slope roofs (2:12). Solar ready zone to be no less than 60% of roof area and no side shall be less than 5 feet in length. No obstacles or shading from vents, ducts, pipes, HVAC equipment, skylights, and roof-mounted equipment shall be located in the solar-ready zone.	Y	A140	Indicate location of: - Calculations showing roof area per C405.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zones on drawings and indicate the roof pitch, number of stories in height above grade plane, and orientation - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar-ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system-ready area shall not be less than 2 feet by 4 feet on either dimension.	Y	A110, A130	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system-ready area
C405.9 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalator.	Indicate location of: - Escalator and moving walkway specifications

Version 1.6 Dated March 1, 2024

05.08.2024

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - Service Water Heating

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 — Date: 4/23/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
ALL COMPLIANCE PATHS					
C404.10	Water Heaters	**For permit applications submitted after January 1, 2024,** fossil fuel and electric resistance water heaters shall not be permitted to provide potable hot water. See exceptions to C404.10.	P600	heat pump water heating equipment.	Indicate location of: - Rationale for exceptions to C404.10
C404.11	Demand Responsive Water Heating	Provide demand responsive controls for electric storage water heaters greater than or equal to 40 gallons and less than or equal to 120 gallons and nameplate rating less than 12 kW.	N/A	Nameplate ring 14 kW.	Indicate location of: - Electric storage water heater product and loop temperature - Sequence of operations for demand response
C404.12	Water Heating Equipment Location	Provide electric infrastructure for fossil fuel equipment where required by Section C405.15. Water heaters shall be located in a space that meets requirements in C404.12	N/A	heat pump water heating equipment.	Indicate location of: - Water heating equipment location
C503.4.1	Alteration: Electrification for Service Water Heating	Where a gas-fired storage water heater or instantaneous water heater is replaced with another gas-fired storage water heater or instantaneous water heater, provide either an Electrification Retrofit Feasibility Report or testing of all gas piping connected to the gas meter serving the replaced gas-fired water heater per Section 406 of the IFGC. Equipment replaced as an emergency equipment replacement is exempt. Gas-fired boilers used for water heating are exempt.	N/A	New building.	Indicate selection / location of: - Electrification Retrofit Feasibility Report OR - Intent to test gas piping
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	M800-M801	SEE COMCHECK	Indicate location of: - COMcheck certificate and inspection checklist Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C404.2	Service Water Heating Equipment	Service water heating equipment including water heaters, hot water storage tanks, hot water supply boilers used for heating potable water, and pool heaters shall comply with Table C404.2	P600		Indicate location of: - Schedules for service water heating equipment with efficiencies
C404.2.1	High Input Service Water Heating Equipment	New buildings with total installed gas water-heating input capacity greater than or equal to 1,000,000 Btuh shall have minimum thermal efficiency of 92%. Where multiple pieces of equipment combined are greater than or equal to 1,000,000 Btuh, the combined input capacity-weighted average thermal efficiency shall be 90%. Refer to full code for exceptions.	N/A	heat pump water heating equipment.	Indicate location of: - Schedules for service water heating equipment with efficiencies - Combined input capacity-weighted average thermal efficiency calculation

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C406 SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.7.2	Recovered or Renewable Water Heating	Provide service water heating system energy source from waste heat recovery or on-site renewable energy water-heating systems for at least 30% of the building's annual hot water requirements. If C403.10.5 Heat Recovery for Service Water Heating is required, provide at least 70% of the building's annual hot water requirements. C406.7.1 Reduced Energy Use in Service Hot Water credits are available for the following use groups: Group R-1: Boarding houses, hotels or motels, Group I-2: Hospitals, psychiatric hospitals and nursing homes, Group R-2, Group E: Schools with full-service kitchens or locker rooms with showers, Group A-2: Restaurants, banquet halls and buildings containing food preparation areas, Group F: Laundries, Group A-3: Health clubs and spas OR buildings showing a service hot water load of at least 10% of total building energy loads from a C407 energy analysis.	N/A	Drain Water Heat Recovery Units not used.	Indicate location of: - Service water heating equipment - Supplemental calculations if applicable
C406.7.3	Efficient Fossil Fuel Service Hot Water	Provide service hot water equipment such that the combined input-capacity weighted-average equipment rating of all fossil fuel water-heating equipment in the building shall be not less than 95 percent Et or 0.95 Ef. Applies to specific occupancy groups per C406.7.1 as shown above. This option shall receive only half the listed credits for buildings required to comply with Section C404.2.1 for new buildings with input rating of the water-heating equipment is 1,000,000 Btu/h (293 kW) or greater.	N/A	heat pump water heating equipment.	Indicate location of: - Service water heating equipment - Supplemental calculations if applicable
C406.7.4	Heat Pump Service Hot Water	Where electric resistance water heaters are allowed, provide all service hot water system heating equipment using heat pump technology with a combined input-capacity weighted-average EF of 3.0. Air-source heat pump water heaters shall not draw conditioned air from within the building, except exhaust air that would otherwise be exhausted to the exterior. Applies to specific occupancy groups per C406.7.1 as shown above.	P600		Indicate location of: - Service water heating equipment - Supplemental calculations if applicable
C406.15	All-Electric Water Heating	All service water heating shall be provided by electric water heating equipment.	N/A	heat pump water heating equipment.	Indicate location of: - Electric water heating equipment Not available for all all-electric properties.

Version 1.6 Dated March 1, 2024
* Requirement for Prescriptive and Performance Paths

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. If "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C404.3	Heat Traps	Storage tank-type water heaters and hot water storage tanks shall have integral heat traps or provide heat traps on supply and discharge piping.	P700		Indicate location of: - Plumbing drawings with heat traps on supply and discharge piping or mechanical equipment schedules identifying integral heat traps
C404.4	Pipe Insulation	Pipe insulation shall comply with Table C403.12.3.	P700		Indicate location of: - Plumbing drawings that show pipe insulation thickness and conductivity
C404.5	Heated Water Supply Piping	The distance from the fixture to the source of heated water (service water heating equipment or recirculated pipe) shall comply with Sections C404.5.1 Maximum allowable pipe length method or C404.5.2 Maximum allowable pipe volume method.	P100		Indicate location of: - Plumbing drawings showing compliance with C404.5.1 including horizontal and vertical distance of the pipe from the fixture to the source of heated water - Plumbing drawings and calculations showing compliance with C404.5.2
C404.6.1	Circulation Systems	Provide controls for circulating hot water system pumps that automatically turn off the pump when the water in the circulation loop is at the desired temperature and when there is not a demand for hot water. The controls shall limit the temperature of the water entering the cold water piping to not greater than 104°F (40°C). Include demand recirculation controls per C404.6.1.1.	P100 P700		Indicate location of: - Plumbing drawings with pumps and controls - Sequence of operations
C404.6.2	Heat Trace	Any electric heat trace systems shall comply with IEEE 515.1. Provide controls for such systems that automatically adjust the energy input to the heat tracing to maintain the desired water temperature in the piping in accordance with the times when heated water is used in the occupancy. Heat trace shall be turned off automatically when there is not a demand for hot water.	N/A	Heat trace not used.	Indicate location of: - Plumbing drawings with heat trace - Sequence of operations for heat trace
C404.6.3	Hot Water Storage	Controls on pumps that circulate water between a water heater and a heated-water storage tank shall limit operation of the pump from heating cycle startup to not greater than 5 minutes after the end of the cycle.	N/A	Controls for Hot Water Storage not used.	Indicate location of: - Plumbing drawings with storage tank - Sequence of operations for pump
C404.7	Drain Water Heat Recovery	Drain water heat recovery units shall comply with CSA B55.2. Potable waterside pressure loss shall be less than 10 psi (69 kPa) at maximum design flow. For Group R occupancies, the efficiency of drain water heat recovery unit efficiency shall be in accordance with CSA B55.1.	N/A	Drain Water Heat Recovery Units not used.	Indicate location of: - Plumbing drawings with drain water heat recovery
C404.8	Energy Consumption of Pools and Permanent Spas	Permanent pools and spas shall comply with Section C404.8. •Heater controlled by an integral on-off switch •Heater shall not have a continuous burning pilot light •Heaters and pumps shall have time switches or other control methods to automatically turn off and on •Outdoor heated pools shall have a vapor-retardant unless more than 75% of energy used for heating is from a heat pump or on-site renewable energy	N/A	Wit out Pools and Permanent Spas	Indicate location of: - Controls - Sequence of operations - Pool cover - Supplemental calculations if applicable

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Issue Record:

05/08/2024	PERMIT SET

Revisions:

1	08/02/24	City Comments
2	09/06/2024	ROUND 2 BUILDING COMMENTS

Drawn: VH — Checked: JT/SK

Project No.: CMG-4882

Contents:

COMPLIANCE CHECKLIST

P800

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE
PART 1 GENERAL
1.1 DEFINITIONS
A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw
1.2 USE CHARGES
A. General: Cost or use charges for temporary facilities are not chargeable to Tenant, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
1. Tenant's construction forces.
2. Occupants of Project.
3. Architect.
4. Engineer.
5. Testing agencies.
6. Personnel of authorities having jurisdiction.
B. Permanent Service: Coordinate with building Tenant and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.
1.3 NOTIFICATION
A. Coordinate with Tenant to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.
1.4 QUALITY ASSURANCE
A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Comply with OSHA standards and regulations.
PART 2 PRODUCTS
2.1 MATERIALS
A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
C. Main panelboard with disconnect.
D. Temporary lighting.
E. 120 volt receptacles with overcurrent protection.
F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.
1. Outdoor Locations: NEMA 250, Type 3R.
PART 3 EXECUTION
3.1 INSTALLATION
A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
3. Provide metal conduit enclosures or boxes for wiring devices.
4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
2. Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.
END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
1.2 QUALITY ASSURANCE
A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
1. Comply with UL 467.
PART 2 - PRODUCTS
2.1 GROUNDING CONDUCTORS
A. For insulated conductors, comply with Division 16 Section "Wiring Methods."
B. Material: Copper.
C. Equipment Grounding Conductors: Insulated with green-colored insulation.
D. Grounding Electrode Conductors: Stranded cable.
E. Bare Copper Conductors: Comply with the following:
1. Solid Conductors: ASTM B 3.
2. Assembly of Stranded Conductors: ASTM B 8.
2.2 CONNECTOR PRODUCTS
A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.
PART 3 - EXECUTION
3.1 APPLICATION
A. Use only copper conductors.
B. In raceways, use insulated equipment grounding conductors.
C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
3.2 EQUIPMENT GROUNDING CONDUCTORS
A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3.3 INSTALLATION
A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
3.4 CONNECTIONS
A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
END OF SECTION 16060

SECTION 16100 - WIRING METHODS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.
PART 2 - PRODUCTS
2.1 WIRES AND CABLES
A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.
2.2 RACEWAYS
A. Wireways: Screwed cover type, with manufacturers standard finish.
B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.
C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.
2.3 ENCLOSURES
A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install wires and cables according to the NECA's "Standard of Installation.
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
K. Stub-up Connections for Equipment: Extend conductors to equipment with rigid metal conduit; flexible metal conduit may be used 3 inches above the floor.
L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.
3.2 IDENTIFICATION MATERIALS AND DEVICES
A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
C. Identify raceways and cables with color banding as follows:
1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
3. Colors: As follows:
a. Telecommunication System: Green and yellow.
D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

		120/208V	277/480V
1.	Phase A:	Black	Brown
2.	Phase B:	Red	Orange
3.	Phase C:	Blue	Yellow
4.	Neutral:	White	Gray
5.	Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NEMA WD 1.
C. Comply with NFPA 70.
PART 2 - PRODUCTS
2.1 DEVICES
A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
B. Color: Per Material Schedule on sheet E010.
C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
E. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.
F. Snap Switches: Heavy-duty, quiet type.
G. Wall Plate: Per Material Schedule on sheet E010.
H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install devices and assemblies plumb and secure.
B. Mount devices flush with long dimension vertical unless otherwise indicated.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete and paint is cured.
END OF SECTION 16140

ALL WORK SHALL COMPLY WITH THE 2023 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND 2022 DENVER BUILDING CODE AMENDMENTS.

SECTION 16442 - PANELBOARDS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1.
PART 2 - PRODUCTS
2.1 PANELBOARDS AND LOAD CENTERS
A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
a. Square D Co.
b. Eaton Corp.; Cutler-Hammer Products.
c. General Electric Co.; Electrical Distribution & Control Div.
d. Siemens Energy & Automation.
B. Recessed, NEMA PB 1, Type 1.
1. Load Center Capacity: as shown on drawings.
2. Front: Secured to box with concealed trim clamps.
3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
4. Bus: Hard drawn copper of 98 percent conductivity.
C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
D. Contactors: NEMA ICS 2, Class A combination contactors.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permantently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
F. Perform visual and mechanical inspections and electrical tests stated In NETA ATS.
END OF SECTION 16442

SECTION 16500 - LIGHTING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.
PART 2 - PRODUCTS
2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL
A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.
B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.
C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Set units level, plumb, and square with ceiling and walls, and secure.
B. Support for Recessed and Semirecessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.
END OF SECTION 16500

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- X/Y/Z — DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
- JUNCTION BOX
- ELECTRIC PANELBOARD
- GENERAL PURPOSE 1-POLE SWITCH
- M — MANUAL STARTER WITH PILOT LIGHT
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX GFCI RECEPTACLE
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
- IG/GFI — NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#2095IGTRGRY (GRAY)
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- KP — SECURITY SYSTEM KEYPAD: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.

ELECTRICAL GENERAL NOTES

A GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
B ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
D INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
E CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
F INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
G INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
H PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
I THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
J DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
K PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES.
L BRANCH CONDUCTORS ARE DESIGNED BASED ON A DISTANCE OF 100' TO MEET THE 3% VOLTAGE DROP PER NEC. IF BRANCH CIRCUIT IS BETWEEN: 100' TO 150' - E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN. 150' TO 200' - E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN. 200' TO 250' - E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN.
M SERVICE CONDUCTORS ARE DESIGNED BASED ON A DISTANCE OF 100' TO MEET THE 2% VOLTAGE DROP PER NEC. IF BRANCH CIRCUIT IS BETWEEN: 100' TO 150' - E.C. SHALL INCREASE THE CONDUCTOR BY ONE SIZE(S) LARGER THAN DESIGN. 150' TO 200' - E.C. SHALL INCREASE THE CONDUCTOR BY TWO SIZE(S) LARGER THAN DESIGN. 200' TO 250' - E.C. SHALL INCREASE THE CONDUCTOR BY THREE SIZE(S) LARGER THAN DESIGN.

ELECTRICAL MATERIAL SCHEDULE

	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS		
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	FIELD-MADE CORD (EXPOSED INDOOR LOCATIONS)	TYPE SO OR SJO SERVICE CORD WITH CU CONDUCTORS
CONDUITS		
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NONMETALLIC CONDUIT (SCHEDULE 40 PVC)
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
WIRING DEVICES		
	IG OR IG/GFI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IN KITCHEN, OFFICE, OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL, RICHLITE, OR OTHER BLACK FINISHES	BLACK DEVICE WITH BLACK COVER PLATE

ELECTRICAL ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GFCI	GROUND FAULT CURRENT INTERRUPTER
GYP	GYPSUM BOARD
IG	ISOLATED GROUND
NF	NON-FUSED
NL	NIGHT LIGHT
NTS	NOT TO SCALE
O/H	OVERHEAD
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WIC	WALK-IN COOLER
WP	WEATHERPROOF

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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Contents:
ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3	A	30	DINING DECORATIVE	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL PANEL SCHEDULE NOTES
A. DUPLICATE PANEL SCHEDULE AND PERMENANTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
(OS)	CEILING MOUNTED LOW VOLTAGE OCCUPANCY SENSOR	1	TLS	GC	ACUITY	CM-PDT-9	WHITE DUAL TECHNOLOGY CEILING OCCUPANCY SENSOR
(PP)	CEILING MOUNTED POWER PACK	1	TLS	GC	ACUITY	PP-20	POWER PACK
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8FCR MVOLT HLK FM DTC CPTLE1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH	2	TLS	GC	ACUITY	nPODMA 4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
OC $	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	2	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING
LOC	WALL-MOUNTED LINE VOLTAGE LOW TEMPERATURE OCCUPANCY SENSOR	1	TLS	GC	LEGRAND	CB-100	LOW TEMPERATURE PASSIVE INFRARED OCCUPANCY SENSOR

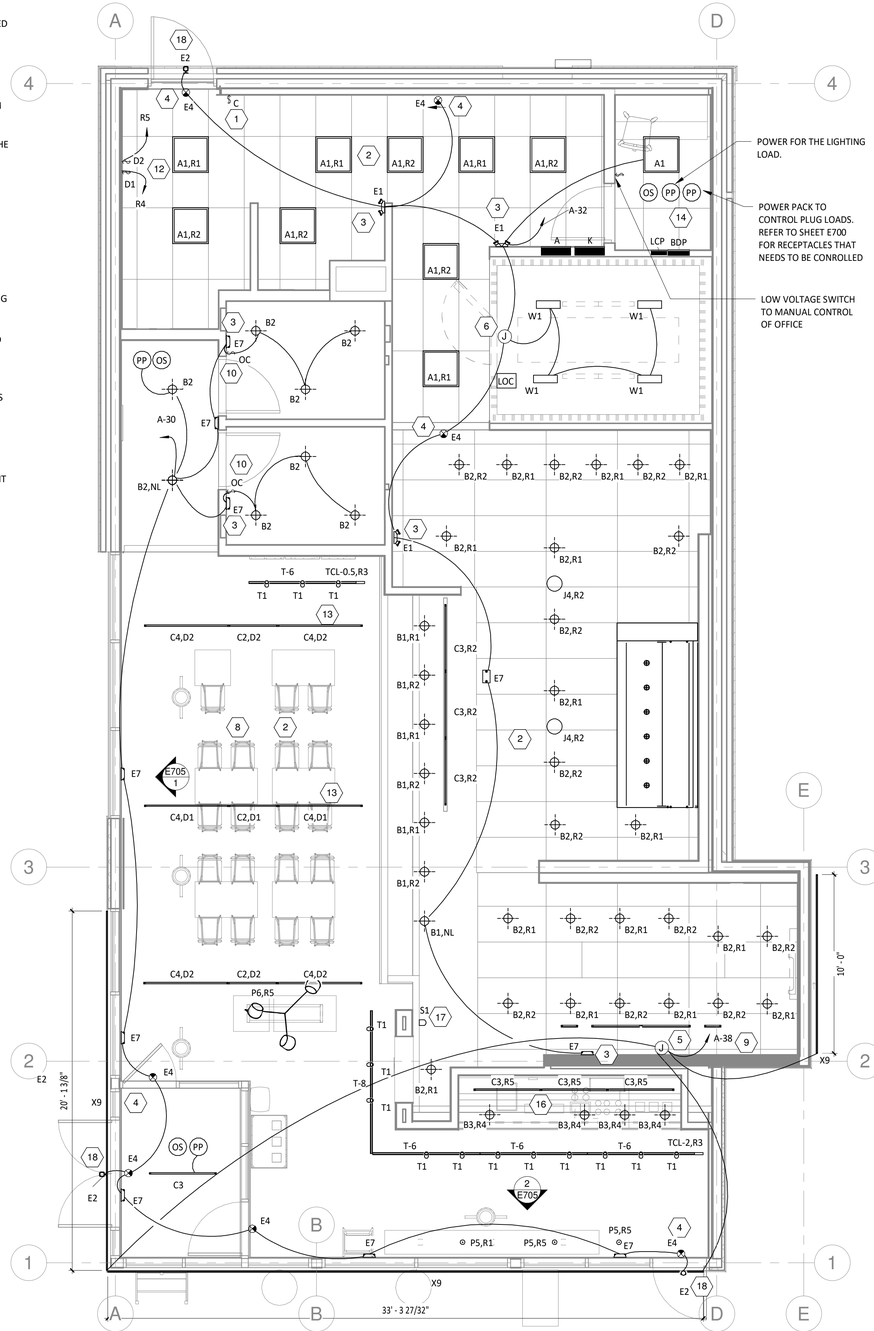
LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN			REMARKS
								MANUFACTURER	MODEL	LAMP	
A1	10	2x2 LED LENSED TROFFER	LAY-IN	120 V	30 W	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL W/ NTM-57W/M1 TRIM	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27 K-25D LED (25°-2700K) W/ GU 24 BASE	
B2	36	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	120 V	5 W	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	5	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	10	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	6	LOW PROFILE LED - 5 FT	SURFACE	120 V	18 W	TLS	GC	HERA LIGHTING	EL/LED/59/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	3	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E2	4	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	4 V	1 W	TLS	GC	EXITRONIX	MLED1-B-WP	INTEGRAL LED	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	7	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD GREEN LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	GCLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	10	EMERGENCY LIGHT	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
H1	12	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	HS/TLS	HS	FURNISHED W/ HOOD	FURNISHED W/ HOOD	(1) TCP L16A19N1527K	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	TLS	GC	BARNLIGHT	BLE-C-CPT10-ASH-100-SBK-100-CAW	GREEN CREATIVE 9A19DIM/927/GU24/R	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P5	3	PENDANT	PENDANT	120 V	5 W	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	TLS	GC	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	16 V	0 W	TLS	GC	FEDERAL SIGNAL	SLM500B W/ SLMBW-012-024	INTEGRAL	SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00111)
T1	14	TRACK HEAD	TRACK	120 V	10 W	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 6FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-8	1	TRACK (8 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 8FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.5	1	TRACK CURRENT LIMITER (60W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
TCL-2	1	TRACK CURRENT LIMITER (240W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
W1	4	WIC LED LIGHT	SURFACE	120 V	29 W	WCS	GC	FURNISHED W/ WIC	FURNISHED W/ WIC	INTEGRAL LED	WET-RATED COOLER FIXTURE
X1	1	LED WALL PACK	SURFACE	120 V	14 W	TLS	GC	RAB LIGHTING	WPLED10N	LED	
X2	7	LED AREA LIGHT 4 WAY	POLE	120 V	67 W	TLS	GC	COOPER LIGHTING	GLEON-AF-01-LED-E1-T 4W	INTEGRAL LED	
X3	2	LED PATIO POLE LIGHT	POLE	120 V	10 W	TLS	GC	RAB LIGHTING	ALED10Y	INTEGRAL LED	
X9	3	EXTERIOR LED CHANNEL LIGHT	SURFACE	120 V	1.1W/FT	TLS	GC	Q-TRAN	SD-SW24-1.0	LED	FURNISHED W/ REMOTE-MOUNTED NEMA 3R LED DRIVER. SEE PLAN FOR LENGTHS.

LIGHTING FIXTURE SCHEDULE NOTES
A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

1 INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710
2 FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
3 WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE
4 VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.
5 INSTALL LED DRIVERS FURNISHED WITH THE X9 LED STRIP LIGHTS ON WALL 6" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM LED DRIVER TO THE X9 LIGHT FIXTURES AS SHOWN.
6 INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.
7 NOT USED.
8 PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
9 CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.
10 INSTALL WALL-MOUNTED OCCUPANCY SENSOR FURNISHED BY LIGHTING SUPPLIER AT 42" AFF. ADJUST OCCUPANCY SENSOR TO PROVIDE AUTOMATIC ON/AUTOMATIC OFF OPERATION WITH A FIXED TIMER OF 30 MINUTES AND WITH BOTH THE PASSIVE INFRARED AND ULTRASONIC SENSORS ENABLED.
11 NOT USED.
12 INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED AND PENDANT LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
13 CONNECT DINING ROOM (RELAY CIRCUITS R4 AND R5) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
14 INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.
15 NOT USED.
16 PENATRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
17 INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
18 INSTALL E2 REMOTE EMERGENCY LIGHT TO BOTTOM OF CANOPY. CONCEAL LOW VOLTAGE WIRING FROM EXIT SIGN TO REMOTE EMERGENCY LIGHT.



1 E100 **LIGHTING FLOOR PLAN**
1/4" = 1'-0"

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Contents:
ELECTRICAL LIGHTING PLAN

E100

ELECTRICAL POWER PLAN NOTES

1 SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700 . NO POINT ALONG THE TOP OF THE WINDOW SHALL BE FARTHER THAN 6TH FROM A RECEPTACLE OUTLET PER NEC 210.62.

2 ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN.

3 CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.

4 JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710.

5 PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.

6 HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

7 PROVIDE A DUPLEX GFCI RECEPTACLE WITH WEATHERPROOF WHILE IN USE OUTLET COVER FOR IRRIGATION CONTROLLER.

8 PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.

9 COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.

10 PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.

11 PROVIDE (2) EMPTY 2" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.

12 PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.

13 AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.

14 PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.

15 UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.

16 PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL BOOSTER.

17 INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.

18 ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

19 ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.

20 ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.

21 PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.

22 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".

23 LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."

24 PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.

25 CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).

26 INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.

27 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.

28 PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

29 PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

ELECTRICAL POWER PLAN NOTES

30 INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.

31 PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.

32 PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.

33 PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.

34 NOT USED.

35 INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TLS SURFACE-MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.

36 SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.

37 PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.

38 INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.

39 PROVIDE (2) 10"X10"X4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.

40 PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.

41 INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

42 CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.

43 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

44 PROVIDE RECEPTACLE FOR 2-DOOR AND 1-DOOR REFRIGERATORS WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.

45 PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.

46 LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".

47 LABEL RECEPTACLE "UV INSECT TRAP".

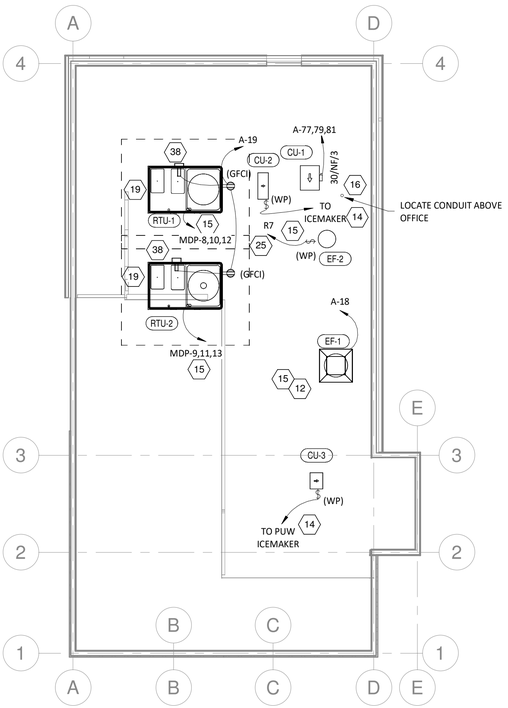
48 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.

49 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.

51 PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.

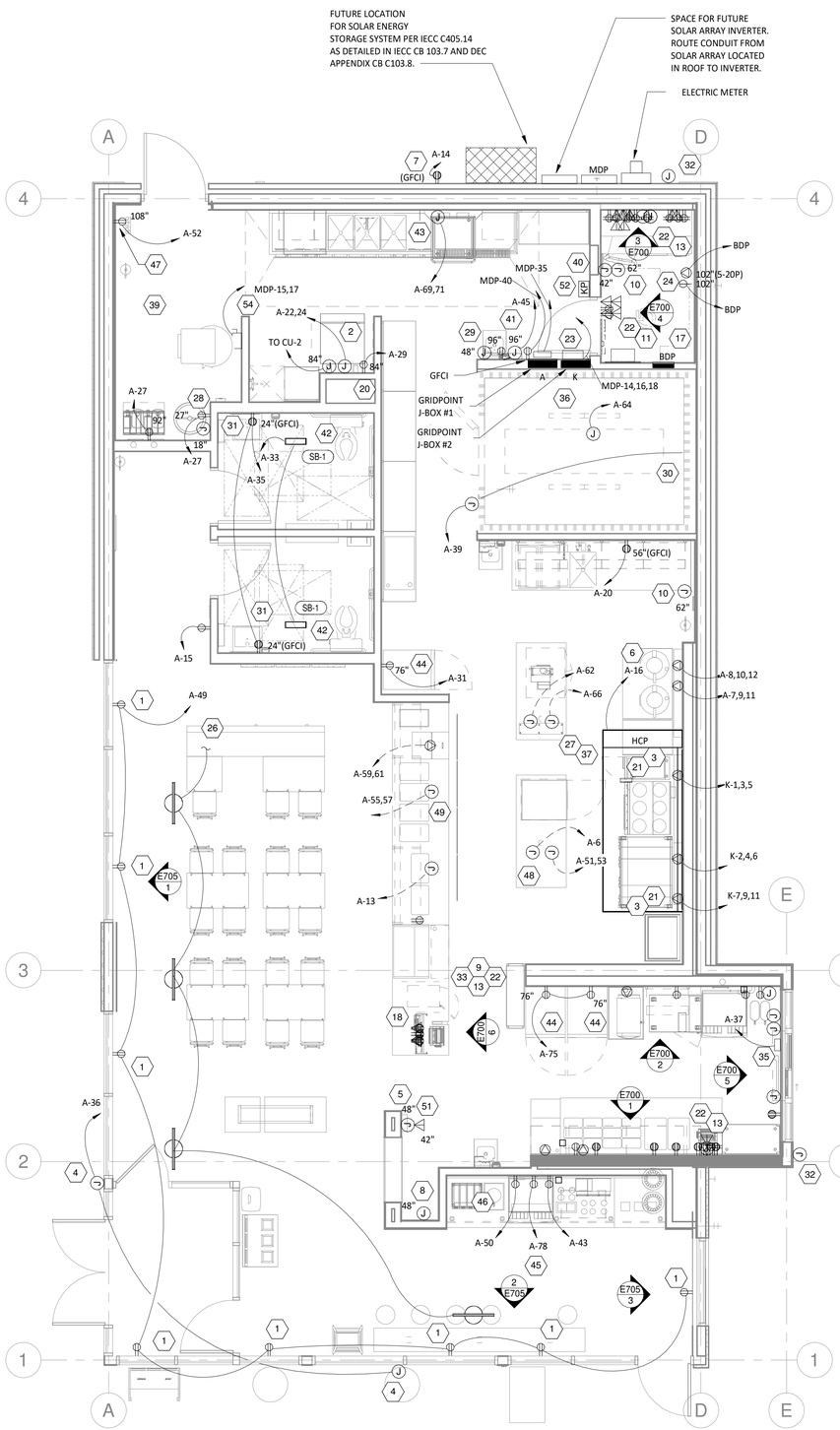
52 PROVIDE A RECESSED J-BOX AT 48" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 3/4" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA. TERMINATE CONDUIT WITH A CONDUIT BUSHING.

54 WATER HEATER 208V. 1PH. 67 MCA. COORDINATE EXACT REQUIREMENT WITH PLUMBING DRAWINGS.



2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"

ANY EXPOSED ELECTRICAL CONTROL PANELS SHALL BE PROVIDED WITH THE APPROPRIATE WORKING SPACE AND CLEARANCE BASED UPON THE PANEL SIZE.



1 E110 **POWER FLOOR PLAN**
1/4" = 1'-0"

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DATE: 09/10/2024 EXP: 10/31/2025

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Issue Record:

05/09/2024	PERMIT SET

Revisions:

1	08/02/2024	CITY COMMENTS
2	09/09/2024	ROUND 2 BUILDING COMMENTS

Drawn: SR
Checked: DD

Project No.: 05-5119

Contents:

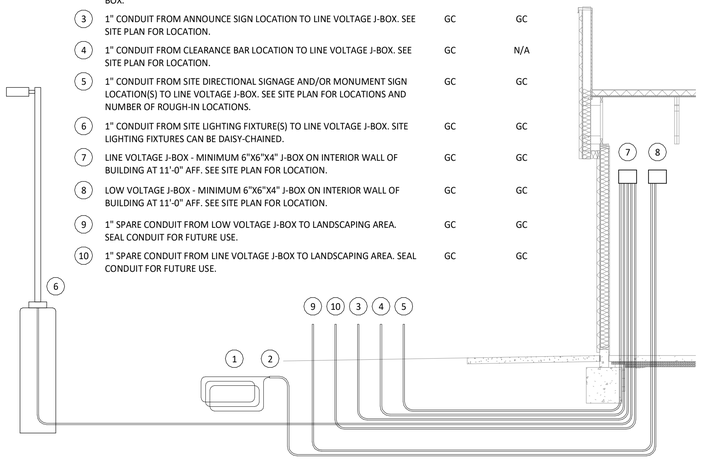
ELECTRICAL POWER PLAN

E110

TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6'x4' WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATION(S).	GC	GC
2	1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.	GC	GC
3	1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	GC
4	1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.	GC	N/A
5	1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.	GC	GC
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	GC	GC
7	LINE VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
8	LOW VOLTAGE J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	GC	GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	GC	GC

GENERAL NOTES

A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
C. PROVIDE PULL STRING IN EMPTY CONDUITS.
D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.

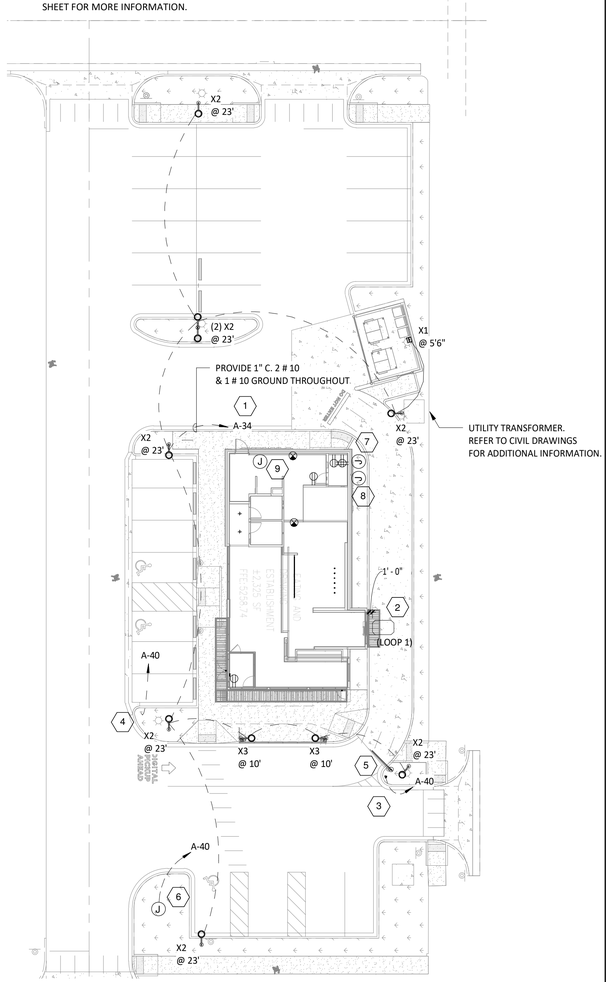


2 E115 **SITE CONDUIT DETAIL**
NOT TO SCALE

ELECTRICAL VEHICLE CHARGING SERVICE IS SEPRATED FROM THE BUILDING ELECTRICAL SERVICE.
THE EV ELECTRICAL SERVICE AND CHARGING IS UNDER A SEPARATE SUBMITTAL. THE REFERENCE NUMBER WILL BE PROVIDED ONCE THAT SUBMITTAL HAS BEEN MADE.

ELECTRICAL POWER PLAN NOTES

1 CONNECT EXTERIOR LIGHTING TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
2 INSTALL VEHICLE DETECTION LOOP FURNISHED BY TLS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. ALIGN DETECTOR LOOP TO BE CENTERED ON THE PICK-UP WINDOW.
3 CONNECT ANNOUNCE SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
4 CONNECT DIRECTIONAL SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
5 PROVIDE EMPTY CONDUIT WITH PULL STRING TO CLEARANCE BAR. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
6 CONNECT MONUMENT SIGN TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710. SEE DETAIL 2/THIS SHEET FOR SITE CONDUITS.
7 EXISTING 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
8 EXISTING 1" SPARE LINE VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
9 EXISTING INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.



1 E115 **POWER SITE PLAN**
1" = 20'-0"

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Project No.
05-5119

Contents:
ELECTRICAL SITE POWER PLAN

E115

Panel Name: BDP **Volts:** 120
Phases: 1 **Mains:** LUGS
Mounting: Recessed **Wires:** 2 **Ampera...** 20 A
Enclosure: Type 1

CKT	Circuit Description	Trip	Poles	Load
1	POS	15 A	1	0.2 kVA
2	DML - POS	15 A	1	0.2 kVA
3	DML - ORDERING SYSTEM	15 A	1	0.7 kVA
4	OFFICE - NETWORK GEAR	15 A	1	0.2 kVA
5	OFFICE - COMPUTER	15 A	1	0.4 kVA
6	OFFICE - DVR/ISP	15 A	1	0.7 kVA
		Total Load:		0.0 kVA
		Total Amps:		0 A

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Surface
ENCLOSURE: Type 3R
PANEL: MDP
MAINS: Do Not Use
AMPERAGE: 800 A
MCB RATING: 800 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	A	B	C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1							--	--								2
3	PROVESION FOR FUTURE ENERGY STORAGE SYSTEM	--	3		--	--		--	--		--		3	--	PROVISION FOR FUTURE SOLAR ELECTRIC	4
5									--		--					6
7	SPACE	--	1		--	--	--	22.1								8
9									22.1	C	183.7		3	200	AIR CONDITIONER - KITCHEN (RTU-1) (3-#2/0, #6 G. in 2" C.)	10
11	AIR CONDITIONER - KITCHEN (RTU-2) (3-#2/0, #6 G. in 2" C.)	200	3		183.7	C			22.1		22.1					12
13							22.1	14.0								14
15	WATER HEATER (2-#3, #8 G. IN 1 1/4" C.)	80	2		67.0	F		7.0	14.0	Spare; F	116.7	SHUNT	3	200	PANEL K (SHUNT TRIP BREAKER)	16
17									7.0		14.0					18
19							0.0	28.3								20
21	TVSS (4-#6, #10 G. IN 1" C.)	60	3		0.0	-		0.0	26.4	Spare; G; A; B; D; F; E	234.1		3	400	PANEL A	22
23									0.0		29.6					24
25	SPACE	--	1		--	--	--			--	--		1	--	SPACE FOR (400A-3P BREAKER)	26
27	SPACE	--	1		--	--		--	--	--	--		1	--	SPACE	28
29									0.0	--	--		1	--	SPACE	30
31	GRIDPOINT 3 PHASE METER (4-#12, #12 G. IN 3/4" C.)	20	3		0.0	G	0.0	--		--	--		1	--	SPACE	32
33								0.0	--							34
35	GRIDPOINT TRANSFORMER	20	1		1.5	G			0.2	--	--		3	--	SPACE	36
37							--	--								38
39	SPACE FOR 800A-3P MAIN BREAKER	--	3		--	--		--	0.2	G	1.5		1	20	SERVICE RECEPTACLE FOR ELECTRICAL PANELS	40
41										--	--		1	--	SPACE	42
43							--	--								44
45	SPACE FOR 800A-3P MAIN BREAKER	--	3		--	--		--	--	--	--		3	--	SPACE	46
47									--							48
							PHASE TOTAL [kVA]:			**86.5 kVA**	**91.7 kVA**		**94.9 kVA**			
							PHASE TOTAL [AMPS]:			**721 A**	**771 A**		**798 A**			

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	2 kVA	125.00%		2 kVA	
B	EXTERIOR LIGHTING	2 kVA	125.00%		2 kVA	**TOTAL CONNECTED kVA:** 273 kVA
C	COMFORT COOLING	132 kVA	100.00%	+ 25% LARGEST MOTOR	132 kVA	**TOTAL CONNECTED AMPS:** 758 A
D	COMFORT HEATING	4 kVA	100.00%		4 kVA	**TOTAL ESTIMATED kVA:** 231.0 kVA
E	MISC. MOTOR	2 kVA	100.00%		2 kVA	**TOTAL ESTIMATED AMPS:** 641 A
F	KITCHEN EQUIPMENT	122 kVA	65.00%		80 kVA	
G	RECEPTACLES	9 kVA	100.00%		9 kVA	

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Recessed
ENCLOSURE: Type 1
PANEL: A
MAINS: LUGS
AMPERAGE: 400 A
MCB RATING: 0 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1	FOODWARMER (DML) Calentador de alimentos (linea de fax)	20	1	GFCI	11.7	F	1.4	2.1								2
3	ICE MAKER (PUW) Maquina para hace hielo	20	1	GFCI	12.5	F		1.5	2.1	F	20.0	GFCI	2	30	HOT FOOD SERVER (DML) (2-#10, #10 N, #10 G. in 3/4" C.) Servidor de alimentos calientes (linea de fax)	4
5	SPARE	20	1		--	--			0.0	0.3						6
7							2.6	2.6		F	2.6	GFCI	1	20	REFRIGERATOR (COOK LINE) Refrigerador (linea para cocinar)	8
9	RICE COOKER (3-#10, #10 G. IN 3/4" C.)	30	3	GFCI	22.0	F		2.6	2.6							10
11									2.6	F	22.0	GFCI	3	30	RICE COOKER (3-#10, #10 G. IN 3/4" C.)	12
13	COLD TOP (SERVE LINE) Tabla fria (linea de servicio)	20	1	GFCI	12.0	F	1.4	0.0								14
15	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.2	0.2	F	0.3		1	20	IRRIGATION CONTROLLER	16
17	PANEL BDP	20	1		19.5	G			2.3	E	1.5		1	20	HOOD CONTROL POWER	18
19	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.3	G; E	0.4	1.4		E	11.6		1	25	HOOD EXHAUST FAN (EF-1)	20
21	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	20	1	GFCI	6.0	G		0.7	1.0	F	11.3		1	20	FOOD PREP TABLE Mesa para la preparación de alimentos	22
23	SECURITY/AUDIO Seguridad y audio	20	1		6.0	G			0.7	F	10.0		2	15	ICE MACHINE	24
25	TELEPHONE BACKBOARD El tablero del teléfono	20	1		1.5	G	0.2	0.0		--	--		1	20	SPARE	26
27	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.8	F		1.3	0.5	E	4.4		1	15	RESTROOM FAN (EF-3)	28
29	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F			0.2	0.6	A	5.0	1	20	LIGHTING - DINING ROOM Iluminación - Comedor	30
31	REACH-IN REFRIGERATOR Cuarto frigorífico	20	1	GFCI	5.0	F	0.6	1.1			A	9.2	1	20	LIGHTING - KITCHEN Iluminación - Cocina	32
33	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E			0.0	0.1	B	0.6	1	20	SITE LIGHTING	34
35	RECEPTACLES - RESTROOMS Receptáculos - Baños	20	1		3.0	G			0.4	0.4	B	3.0	1	20	SIGN LIGHTING Iluminación para letreros	36
37	VEHICLE DETECTOR	20	1		0.3	G	0.0	0.3			B	2.4	1	20	LIGHTING - EXTERIOR Iluminación - Exterior	38
39	WIC - DOOR SECTION	20	1		0.2	F			0.0	0.8	B	6.7	1	20	SITE SIGNAGE	40
41	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F				1.1	0.0	A; B	0.0	1	20	LIGHTING CONTROL PANEL	42
43	BUBBLER	20	1	GFCI	8.5	F	1.0	0.2				G	1.5	1	20	PICK-UP WINDOW	44
45	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFCI	9.0	G			1.1	2.1		D	20.2	2	25	PUW AIR CURTAIN (2-#10, #10 G. IN 3/4" C.)	46
47	RECEPTACLES - DML Receptáculos - Fax	20	1	GFCI	6.0	G				0.7	2.1					48
49	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		12.0	G	1.4	1.1				F	9.3	GFCI	1	20	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	50
51	CARVING STATION Estación para cortar carnes	20	2	GFCI	10.0	F			1.0	0.2		F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	52
53										1.0	0.0					54
55	HOT FOOD SERVER (SERVE LINE) (2-#10, #10 N, #10 G. in 3/4" C.) Servidor de alimentos	30	2	GFCI	20.0	F	2.1	0.0				--	--	GFCI	2	25	SPARE	56
57									2.1	0.0						58
59	TORTILLA PRESS (SERVE LINE) (2-#10, #10 N., #10 G. in 3/4" C.) Calentador de tortillas	20	2	GFCI	13.0	F					1.4	0.0				60
61							1.4	0.2				F	1.5	GFCI	1	15	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	62
63	ICE MAKER Máquina para hacer hielo	20	1	GFCI	0.0	F			0.0	0.2		F	1.5		1	20	WIC - EVAPORATOR	64
65	TORTILLA PRESS (DML) (2-#10, #10 G. IN 3/4" C.) Calentador de tortillas (linea del fax)	20	2	GFCI	13.0	F					1.4	1.4	F	11.3	GFCI	1	20	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	66
67							1.4	0.0				--	--		1	20	SPARE	68
69	DISH MACHINE (2-#10, #10 G. IN 3/4" C.) Lavavajillas	30	2	GFCI	25.0	F			2.6	0.0		--	--		1	20	SPARE	70
71											2.6	2.9	F	28.0	GFCI	2	30	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	72
73	UNDERCOUNTER COOLER (PUW)	20	1	GFCI	1.5	F	0.2	2.9								74
75	UPRIGHT REFRIGERATOR Refrigerador vertical	20	1	GFCI	10.0	F			1.2	1.1		F	9.2	GFCI	1	20	SODA SYSTEM DISPENSER (PUW)	76
77											1.1	1.4	F	12.0	GFCI	1	20	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	78
79	CU-1 (3-#10, #10 G. IN 3/4" C.)	15	3		9.4	F	1.1	1.2				F	10.0	GFCI	1	20	COLD TOP (DML) Tabla fria (linea de fax)	80
81									1.1	--		--	--		1	--	SPACE	82
83	SPACE	--	1		--	--				--	--	--	--		1	--	SPACE	84
							PHASE TOTAL [kVA]:			**28.3 kVA**	**26.4 kVA**		**29.6 kVA**			
							PHASE TOTAL [AMPS]:			**238 A**	**220 A**		**249 A**			

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	2 kVA	125.00%		2 kVA	
B	EXTERIOR LIGHTING	2 kVA	125.00%		2 kVA	**TOTAL CONNECTED kVA:** 84 kVA
C	COMFORT COOLING	0 kVA	0.00%	+ 25% LARGEST MOTOR	0 kVA	**TOTAL CONNECTED AMPS:** 234 A
D	COMFORT HEATING	4 kVA	100.00%		4 kVA	**TOTAL ESTIMATED kVA:** 61.9 kVA
E	MISC. MOTOR	2 kVA	100.00%		2 kVA	**TOTAL ESTIMATED AMPS:** 172 A
F	KITCHEN EQUIPMENT	66 kVA	65.00%		43 kVA	
G	RECEPTACLES	8 kVA	100.00%		8 kVA	

VOLTS: 208/120V Wye
PHASES: 3
WIRES: 4
MOUNTING: Recessed
ENCLOSURE: Type 1
PANEL: K
MAINS: LUGS
AMPERAGE: 225 A
MCB RATING: 0 A

CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #
1							5.4	4.7								2
3	PLANCHA (3-#6, #10 G. IN 3/4"C)	60	3		44.9	F			5.4	4.7						4
5										5.4	4.7					6
7							4.0	0.0								8
9	RANGE (3-#6, #10 G. IN 3/4"C)	50	3		32.9	F			4.0	0.0						10
11										4.0	0.0					12
13	SPACE	--	1		--	--	--	0.0								14
15	SPACE	--	1		--	--			--	0.0						16
17	SPACE	--	1		--	--					--	0.0				18
19	SPACE	--	1		--	--	--	--								20
21	SPACE	--	1		--	--		--	--							22
23	SPACE	--	1		--	--				--	--					24
25	SPACE	--	1		--	--	--	--								26
27	SPACE	--	1		--	--		--	--							28
29	SPACE	--	1		--	--				--	--					30
							PHASE TOTAL [kVA]:			**14.0 kVA**	**14.0 kVA**		**14.0 kVA**			
							PHASE TOTAL [AMPS]:			**117 A**	**117 A**		**117 A**			

TYPE	DESCRIPTION	CONNECTED LOAD	DEMAND FACTOR		ESTIMATED DEMAND	PANEL TOTALS
A	INTERIOR LIGHTING	0 kVA	0.00%		0 kVA	
B	EXTERIOR LIGHTING	0 kVA	0.00%		0 kVA	**TOTAL CONNECTED kVA:** 42 kVA
C	COMFORT COOLING	0 kVA	0.00%	+ 25% LARGEST MOTOR	0 kVA	**TOTAL CONNECTED AMPS:** 117 A
D	COMFORT HEATING	0 kVA	0.00%		0 kVA	**TOTAL ESTIMATED kVA:** 27.3 kVA
E	MISC. MOTOR	0 kVA	0.00%		0 kVA	**TOTAL ESTIMATED AMPS:** 76 A
F	KITCHEN EQUIPMENT	42 kVA	65.00%		27 kVA	
G	RECEPTACLES	0 kVA	0.00%		0 kVA	

PROVIDE INDIVIDUAL EXTERNAL CLASS A GFCI FOR 60A-3P AND (4) 50A-3P CIRCUIT BREAKERS

SHORT-CIRCUIT CALCULATIONS

1 AVAILABLE FAULT CURRENT AT THE SECONDARY OF TRANSFORMER 52,000 Amperes

2 C/T & METER

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 25 \times 52{,}000}{26{,}706 \times 2 \times 208}$$

$$= 0.2026$$

(Use 2 for parallel conductors)

$$M = \frac{1}{1+f} = \frac{1}{1+.2024} = 0.83148$$

SCA= 52,000 x 0.8316 = 43,237 Amperes

3 MDP

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 4 \times 43{,}237}{22{,}185 \times 2 \times 208}$$

$$= 0.032$$

(Use 2 for parallel conductors)

$$M = \frac{1}{1+f} = \frac{1}{1+0.032} = 0.969$$

SCA= 43,237 x 0.969 = 41,878 Amperes

4 PANEL A

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 15 \times 41{,}878}{22{,}965 \times 1 \times 208}$$

$$= 0.228$$

$$M = \frac{1}{1+f} = \frac{1}{1+0.228} = 0.814$$

SCA= 41,878 x 0.814 = 34,109 Amperes

5 PANEL K

$$f = \frac{1.732 \times L \times I}{C \times E}\ {}_{L\text{-}L\text{-}L}\ {}_{L\text{-}L} = \frac{1.732 \times 15 \times 41{,}878}{12{,}844 \times 1 \times 208}$$

$$= 0.407$$

$$M = \frac{1}{1+f} = \frac{1}{1+0.407} = 0.711$$

SCA= 41,878 x 0.711 = 29,758 Amperes

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158 W. MAIN ST.
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COLORADO REGISTERED GREGORY L. DOPP PE.0048644 PROFESSIONAL ENGINEER
DATE: 09/10/2024 EXP: 10/31/2025

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RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

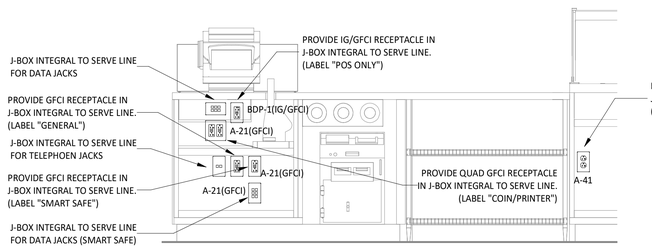
#		
1	08/02/2024	CITY COMMENTS
2	09/09/2024	ROUND 2 BUILDING COMMENTS
3	09/19/2024	ROUND 3 BUILDING COMMENTS

Drawn: SR Checked: DD

Project No. 05-5119

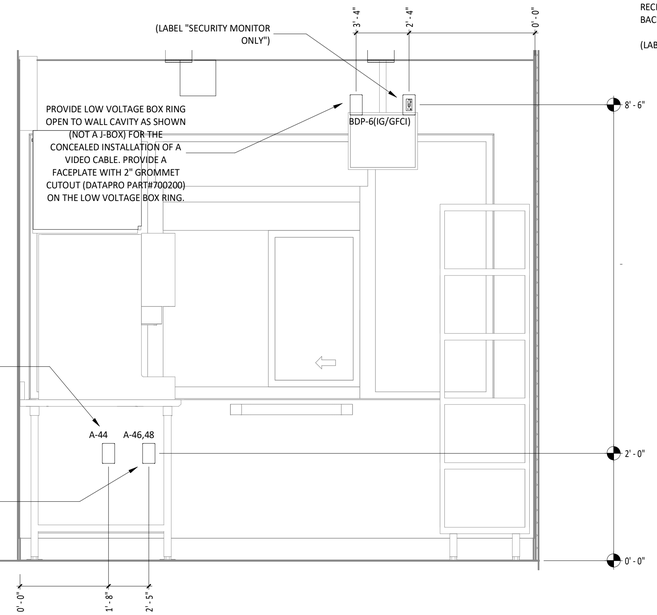
Contents: ELECTRICAL SCHEDULES

E600



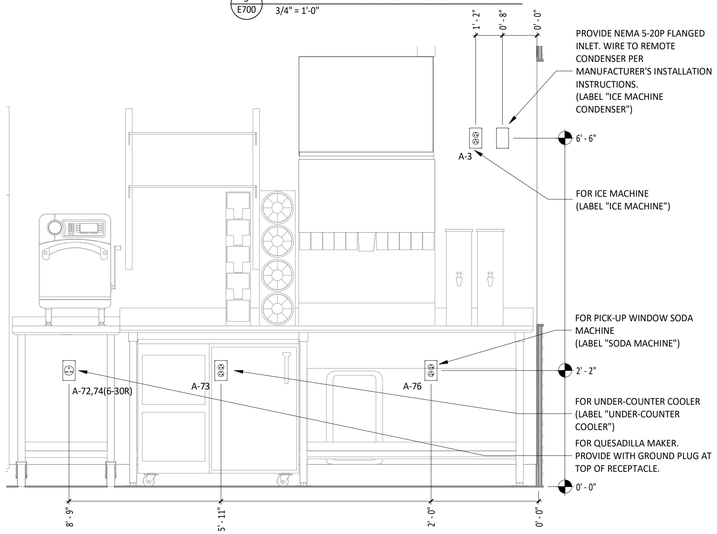
6 E700 POS COUNTER ELECTRICAL ELEVATION

3/4" = 1'-0"



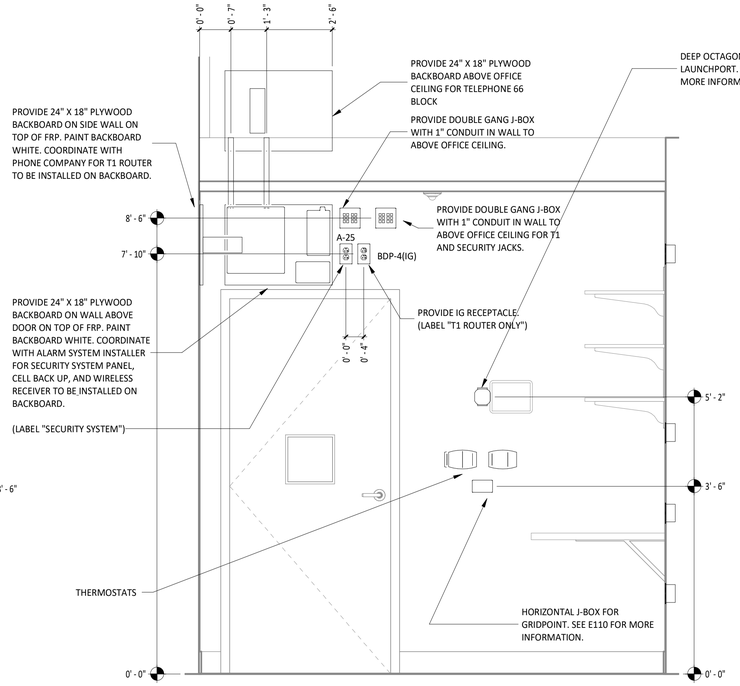
5 E700 PICK UP WINDOW ELEVATION

3/4" = 1'-0"



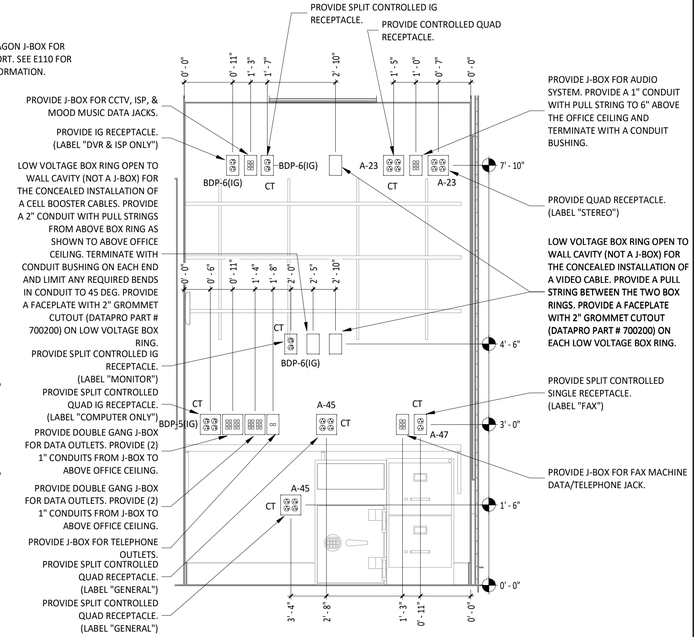
2 E700 PUW COLD SIDE ELECTRICAL ELEVATION

3/4" = 1'-0"



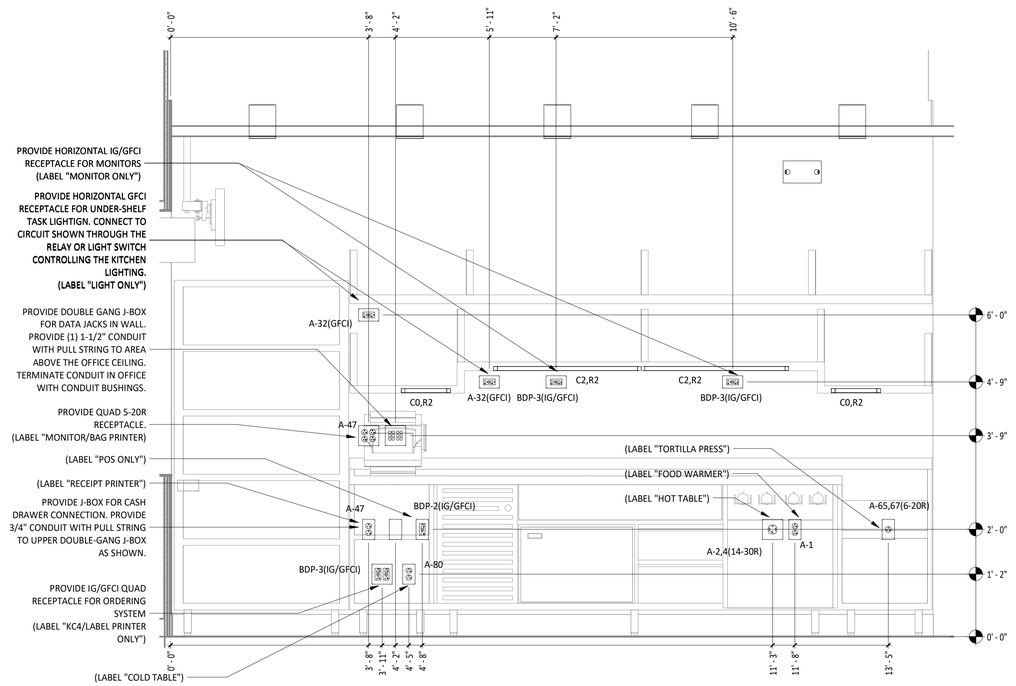
4 E700 OFFICE DOOR ELECTRICAL ELEVATION

3/4" = 1'-0"



3 E700 OFFICE DESK ELECTRICAL ELEVATION

3/4" = 1'-0"



1 E700 DML ELECTRICAL ELEVATION

3/4" = 1'-0"

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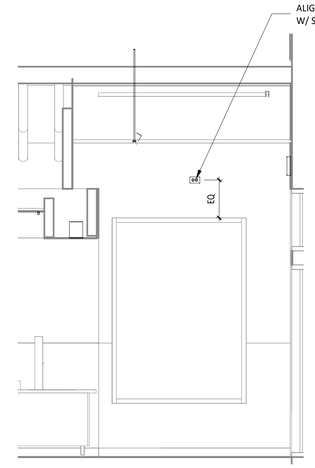
Revisions:
1 08/02/2024 CITY COMMENTS

Drawn: SR
Checked: DD

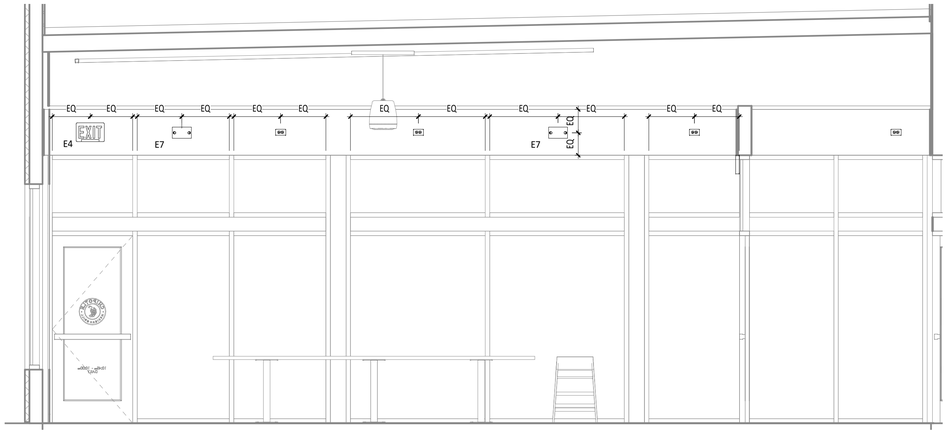
Project No.
05-5119

Contents:
ELECTRICAL INTERIOR ELEVATIONS

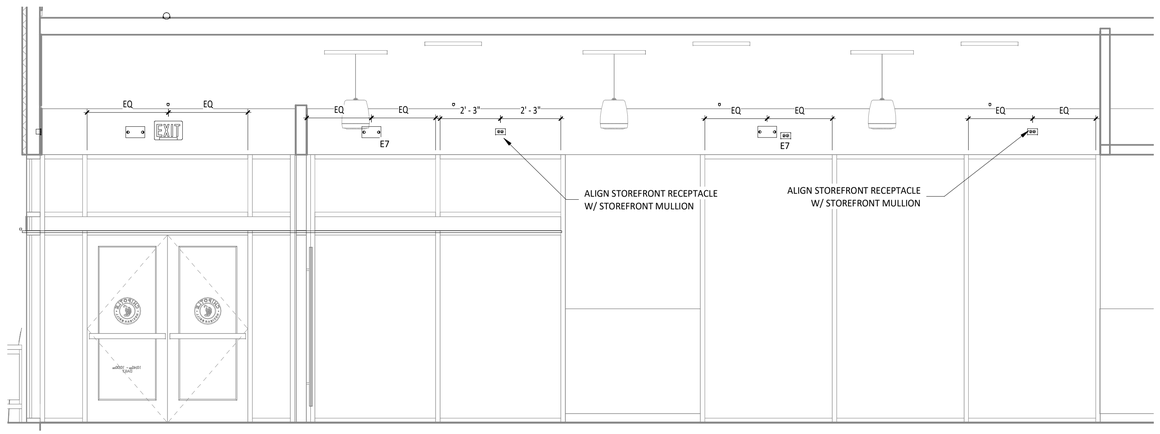
E700



3 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



2 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



1 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"

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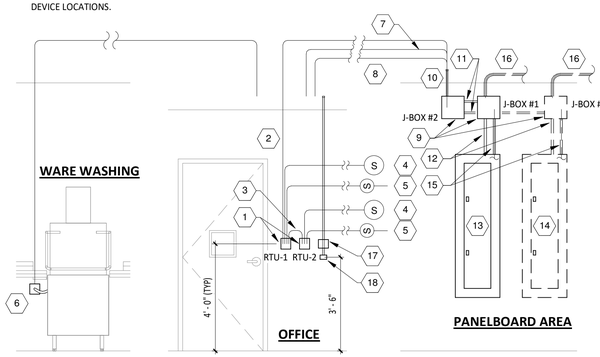
Contents:
ELECTRICAL INTERIOR ELEVATIONS

E705

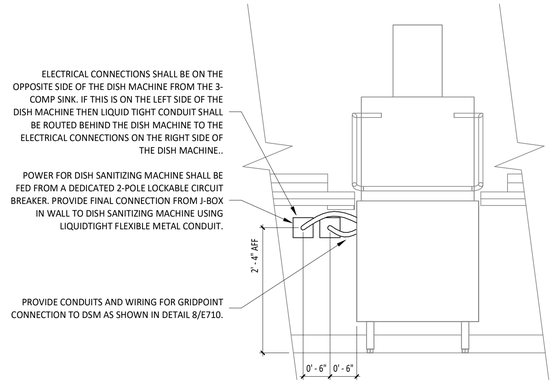
GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX # 1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

NOTE:
ARRANGEMENT SHOWN IS DIAGRAMMATIC - SEE PLANS FOR ACTUAL DEVICE LOCATIONS.



8 E710 GRIDPOINT WIRING DIAGRAM
NOT TO SCALE



ELECTRICAL CONNECTIONS SHALL BE ON THE OPPOSITE SIDE OF THE DISH MACHINE FROM THE 3-COMP SINK. IF THIS IS ON THE LEFT SIDE OF THE DISH MACHINE THEN LIQUID TIGHT CONDUIT SHALL BE ROUTED BEHIND THE DISH MACHINE TO THE ELECTRICAL CONNECTIONS ON THE RIGHT SIDE OF THE DISH MACHINE..

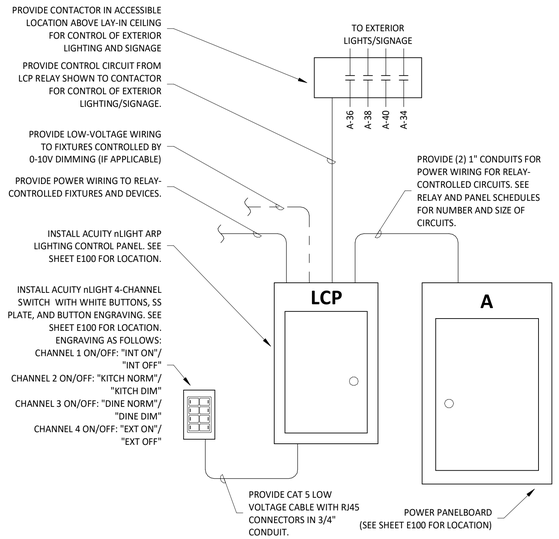
POWER FOR DISH SANITIZING MACHINE SHALL BE FED FROM A DEDICATED 2-POLE LOCKABLE CIRCUIT BREAKER. PROVIDE FINAL CONNECTION FROM J-BOX IN WALL TO DISH SANITIZING MACHINE USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

PROVIDE CONDUITS AND WIRING FOR GRIDPOINT CONNECTION TO DSM AS SHOWN IN DETAIL 8/E710.

7 E710 DISH SANITIZING MACHINE ELECTRICAL DETAIL
NOT TO SCALE

SEQUENCE OF OPERATIONS

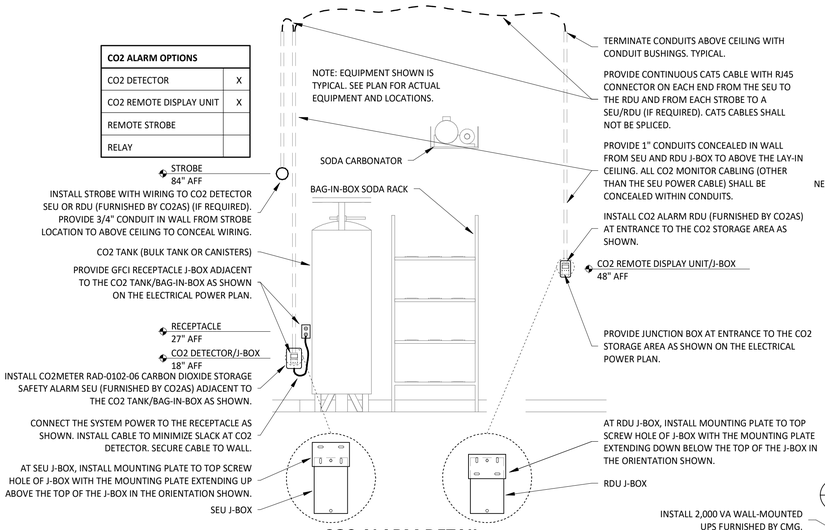
A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS (R4, R5, R6) SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. EXTERIOR LIGHTING/SIGNAGE RELAY (R8) SHALL BE ENERGIZED FROM AFTER SUNSET (PER IECC C405.2.7.1 LIGHT SHOULD BE OFF WHEN DAYLIGHT IS PRESENT) UNTIL ONE HOUR AFTER CLOSING AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
F. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITION. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R4, R5, R6, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAY R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAYS R5 AND R6 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
J. EXTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 4) RELAY R8 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
K. VERIFY THAT TIME, TIME ZONE, AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.



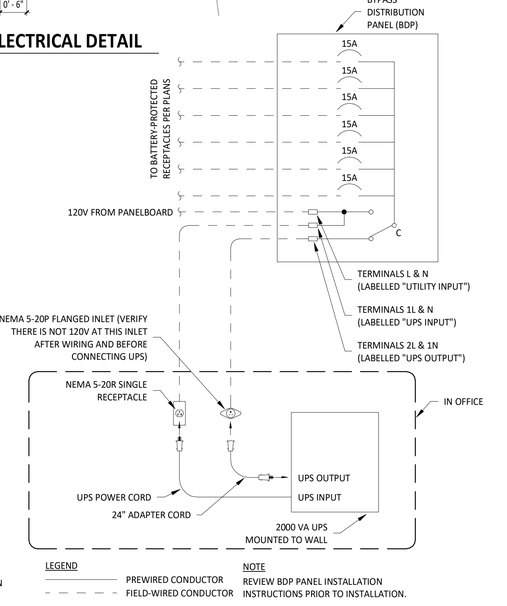
6 E710 LIGHTING CONTROL DIAGRAM
NOT TO SCALE

ALL WORK SHALL COMPLY WITH THE 2023 NATIONAL ELECTRICAL CODE, 2021 INTERNATIONAL ENERGY CONSERVATION CODE AND 2022 DENVER BUILDING CODE AMENDMENTS.

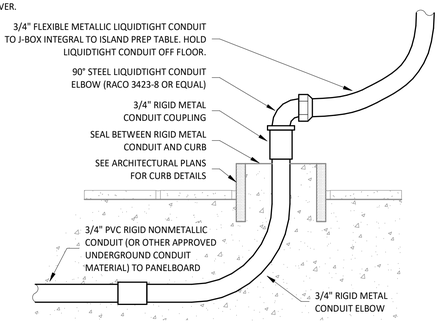
CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	



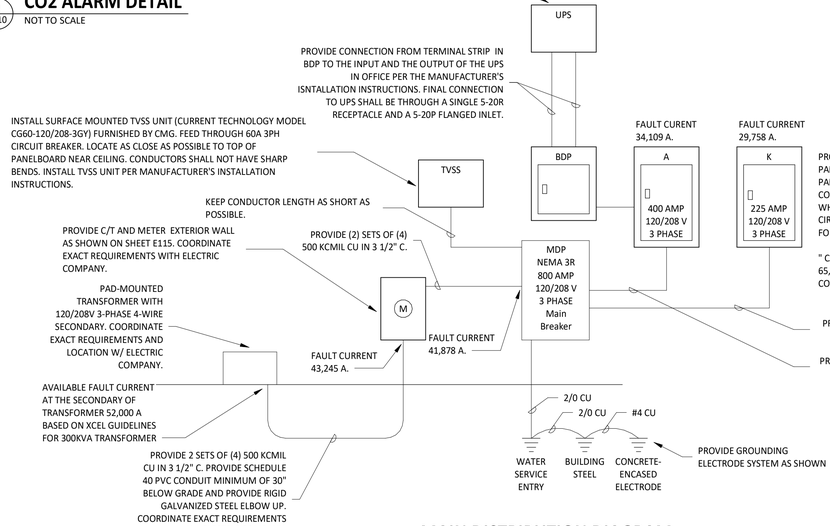
4 E710 CO2 ALARM DETAIL
NOT TO SCALE



3 E710 BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
NOT TO SCALE



2 E710 PEDESTAL OUTLET DETAIL
NOT TO SCALE



1 E710 MAIN DISTRIBUTION DIAGRAM
NOT TO SCALE

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COLORADO REGISTERED GREGORY L. OSTER PE.0048644 PROFESSIONAL ENGINEER
DATE: 09/10/2024 EXP: 10/31/2025

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STORE NO.: 05-5119
RUNWAY 35N
8968 E. 46TH AVE
DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

1	08/02/2024	CITY COMMENTS

Drawn: MPC
Checked: MPC

Project No.: 05-5119

Contents:
ELECTRICAL DETAILS

E710

COM*check* Software Version COMcheckWeb

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: CHIPOTLE - Denver, CO
Project Type: New Construction

Construction Site:
8928 E. 46th Ave.
Denver, CO 80238

Owner/Agent:
Lingle Design Group
158 West Main Street
Lena, IL 61048
815-369-9155

Designer/Contractor:
Gregory Doffin
Dickerson Engineering Inc.
3343 N. Ridge Ave.
Arlington Heights, IL 60004
847-966-0290

Additional Efficiency Package(s)

Credits: 10.0 Required 20.0 Proposed
Fault detection and diagnostics system, 1.0 credit
Reduced lighting power, 19.0 credit
Enhanced envelope performance, 0.0 credit
5% cooling efficiency improvement, 0.0 credit

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-KITCHEN (Common Space Types:Food Preparation)	1293	1.09	1409
Allowance: Decorative Appearance (not lobbies) / Fix. ID: J4	18 (a)	0.75	14 (b)
2-DINING (Common Space Types:Dining Area - General)	977	0.43	420
Allowance: Decorative Appearance (not lobbies) / Fix. ID: P5	15 (a)	0.75	11 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: P6	30 (a)	0.75	22 (b)
Allowance: Decorative Appearance (not lobbies) / Fix. ID: T1	300 (a)	0.75	225 (b)
3-RESTROOMS (Common Space Types:Restrooms)	153	0.63	96
4-OFFICE (Common Space Types:Office - Enclosed)	66	0.74	49
		Total Allowed Watts =	2247

(a) Area claimed must not exceed the illuminated area permitted for this allowance type.
(b) Allowance is (B x C) or the actual wattage of the fixtures given in Section 2, whichever is less.

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
1-KITCHEN (Common Space Types:Food Preparation)				
LED: A1: 2X2 LED TROFFER: Other:	1	9	30	270
LED: B1: RECESSED CAN LIGHT: Other:	1	7	17	119
LED: B2: RECESSED CAN LIGHT: Other:	1	27	17	459
LED: C0: LOW PROFILE LED - 1FT: Other:	1	2	5	10
LED: C2: LOW PROFILE LED - 2FT: Other:	1	2	12	24
LED: C3: LOW PROFILE LED - 4FT: Other:	1	6	15	90
LED: H1: HOOD LIGHTS: Other: Exemption:Lighting integral to equipment	1	8	15	Exempt
LED: J4: DECORATIVE PENDANT: Other:	1	2	9	18

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
2-DINING (Common Space Types:Dining Area - General)				
LED: B2: RECESSED CAN LIGHT: Other:	1	3	17	51
LED: B3: RECESSED CAN LIGHT: Other:	1	4	12	48
LED: C2: LOW PROFILE LED - 2FT: Other:	1	3	12	36
LED: C3: LOW PROFILE LED - 4FT: Other:	1	1	15	15
LED: C4: LOW PROFILE LED - 5FT: Other:	1	6	18	108
LED: P5: PENDANT: Other:	1	3	5	15
LED: P6: DECORATIVE DINING PENDANT: Other:	1	1	30	30
Track Lighting: T1: TRACK LIGHTING: Wattage based on current limiting device capacity	0	0	300	300
3-RESTROOMS (Common Space Types:Restrooms)				
LED: B2: RECESSED CAN LIGHT: Other:	1	6	17	102
4-OFFICE (Common Space Types:Office - Enclosed)				
LED: A1: 2X2 LED TROFFER: Other:	1	1	30	30
			Total Proposed Watts =	1725

Interior Lighting PASSES: Design 23% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregory Doffin, PE — Name - Title
Signature
05/08/2024 — Date

COM*check* Software Version COMcheckWeb

Inspection Checklist

Energy Code: 2021 IECC

Requirements: 100.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C103.2 [PR8][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100, E115 & E710
C406 [PR9][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the additional energy efficiency package options.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.3.1 [EL22][1]	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the connected lighting load in a reasonably uniform illumination pattern >= 50 percent.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C405.2.1, C405.2.1.1 [EL18][1]	Occupancy sensors installed in classrooms/lecture/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, corridors, warehouse storage areas, and other spaces <= 300 sqft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C405.2.1.2 [EL19][1]	Occupancy sensors control function in warehouses: In warehouses, the lighting in aisleways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more within 20 minutes of when the areas are unoccupied. The occupant sensors control lighting in each aisleway independently and do not control lighting beyond the aisleway being controlled by the sensor. Lights not turned off by occupant sensors is done so by time-switch.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.1.3 [EL20][1]	Occupant sensor control function in open plan office areas: Occupant sensor controls in open office spaces >= 300 sq.ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 600 sq.ft. within the space, 2) general lighting in each zone permitted to turn on upon occupancy in control zone, 3) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 4) are configured so that general lighting power in each control zone is reduced by >= 80% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.2.2, C405.2.2.1 [EL21][2]	Each area not served by occupancy sensors (per C405.2.1.1) have time-switch controls and functions detailed in sections C405.2.2.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100 & E710

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

COM*check* Software Version COMcheckWeb

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: CHIPOTLE - Denver, CO
Project Type: New Construction
Exterior Lighting Zone: 4 (High activity metropolitan commercial district (LZ4))

Construction Site:
8928 E. 46th Ave.
Denver, CO 80238

Owner/Agent:
Lingle Design Group
158 West Main Street
Lena, IL 61048
815-369-9155

Designer/Contractor:
Gregory Doffin
Dickerson Engineering Inc.
3343 N. Ridge Ave.
Arlington Heights, IL 60004
847-966-0290

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Drive-up windows/doors	2 windows	200	No	400
Parking area	17500 ft2	0.08	Yes	1400
Driveway	3000 ft2	0.08	Yes	240
			Total Tradable Watts (a) =	1640
			Total Allowed Watts =	2040
			Total Allowed Supplemental Watts (b) =	900

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 900 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Drive-up windows/doors (2 windows or doors): Non-tradable Wattage				
LED: X9: EXTERIOR LED CHANNEL: Other:	1	2	45	90
Parking area (17500 ft2): Tradable Wattage				
LED: X1: LED WALL PACK: Other:	1	2	10	20
LED: X2: POLE LIGHTS: Other:	1	6	67	402
LED: X3: POLE LIGHTS: Other:	1	2	10	20
Driveway (3000 ft2): Tradable Wattage				
LED: X2: POLE LIGHTS: Other:	1	2	67	134
			Total Tradable Proposed Watts =	576

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.4, C405.2.4.1, C405.2.4.2 [EL23][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3 Daylight-responsive controls for applicable spaces, C405.2.3.1 Daylight responsive control function and section C405.2.3.2 Sidelit zone.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Sidelit zones on first floor in Group A-2 and M occupancies.
C405.2.5 [EL27][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100
C405.2.7 [EL28][1]	Automatic lighting controls for exterior lighting installed. Controls will be daylight controlled, set based on business operation time-of-day, or reduce connected lighting > 30%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met. **Location on plans/spec:** E100, E115 & E710
C405.7 [EL26][2]	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.8 [EL27][2]	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.9.1, C405.9.2 [EL28][2]	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.10 [EL29][2]	Total voltage drop across the combination of feeders and branch circuits <= 5%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.1.1 [EL30][2]	At least 90% of dwelling unit permanently installed lighting shall have lamp efficacy >= 65 lm/W or luminaires with efficacy >= 45 lm/W or comply with C405.2.4 or C405.3.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.
C405.11, C405.11.1 [EL31][2]	50% of 15/20 amp receptacles installed in enclosed offices, conference rooms, copy rooms, break rooms, classrooms and workstations and > 25% of branch circuit feeders for modular furniture will have automatic receptacle control in accordance with C405.11.1.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	**Exception:** Requirement does not apply.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Exterior Lighting PASSES: Design 77% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COM*check* Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Gregory Doffin, PE — Name - Title
Signature
05/08/2024 — Date

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C405.5.1 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Exterior Lighting fixture schedule for values.*
C406.2.2 [FI66][1]	5% cooling efficiency improvement - all HVAC and Plant cooling equipment is 5% more efficient than required by 2021 IECC.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.3 [FI67][1]	Reduced lighting power - this credit specifies that the connected lighting power is >= 10% more efficient than 2021 IECC requirements.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.8 [FI68][1]	Enhanced envelope performance - the building thermal envelope UA value is >= 15% better than the total UA of the envelope specified by Section C402.1.5.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.1.1 [FI57][1]	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C406.11 [FI64][1]	Fault Detection and Diagnostics - a fault detection and diagnostics system installed to monitor the HVAC operation and performance. Includes monitoring sensors and devices, sampling every 15 minutes, automatically report faults and provide recommendations for repair, and transmit recommendations to local authorized personnel.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.2.5 [FI16][3]	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Consultant:
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Issue Record:
05/09/2024 PERMIT SET

Revisions:

Drawn: SR
Checked: DD

Project No.
05-5119

Contents:
COMCHECK

E800

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - General

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238 | Date: 7/8/2024

MANDATORY		RESPONSE	DESIGNER NOTES
Indicate if the project scope includes any of the following:	New construction (Y/N)	N	
	Addition (Y/N)	N	
	Change of occupancy or use (Y/N)	N	
	First tenant in the space (Y/N)	N	
	Tenant finish in a previously occupied space (Y/N)	N	
	Core and shell only (Y/N)	N	
	New parking (Y/N)	Y	New parking facilities must comply with C405.13 Electric Vehicles
What is the project area of work in sf? (Alteration or tenant finish only)		2,400 OR053 2,225 NET INT SHELL/TENANT FINISH	
Property type	Is this an all-electric property? (Y/N)	Y	SERIES SHEETS

ALL-ELECTRIC PROPERTY. A property on a single assessment parcel with an accompanying legally described area of land as shown on a site plat, that, except for emergency power systems and standby power systems:
1) Contains no permanently installed equipment or appliances that utilize combustion , plumbing for fuel gas or fuel oil or fuel gas utility connection, installed within the building(s) or site; or,
2) Contains at least one new stand-alone all-electric building where the property includes existing fuel gas or fuel oil infrastructure built under a code effective prior to May 1, 2023

ENERGIZE DENVER					
C503.2.3	Wood 2030 target EUI required by Energize Denver	Enter the Final 2030 target EUI required by Energize Denver (Art. XIV, Ch. 10 (Buildings and building regulations), HVAC) applicable to the building. The EUI shall be determined in accordance with the Rules and Regulations Governing Energize Denver Building Energy Performance Requirements document available from the Office of Climate Action, Sustainability and Resilience. Applies to buildings 25,000 sf and larger.	N/A		Enter EUI in Response box. Indicate location of: - Supplemental calculations if applicable See Technical Guidance for Target Adjustments Appendix A 3068 Forgate

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable))	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
COMMISSIONING AND VERIFICATION					
C402.5.1.5	Building Thermal Envelope Performance Verification and Report	Continuous air barrier shall be reviewed, inspected and tested by a Colorado registered design professional or approved agency and a final commissioning report provided.	Y	DT230 - WEATHER BARRIERS, G012, A305 - A499	Indicate location of: - Letter with qualifications of the entity performing building envelope performance verification
C408.2	Mechanical System Commissioning	Mechanical systems shall be commissioned by a Colorado registered design professional or approved agency, with exception for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G003, G003.2 & M010	Indicate location of: - Letter with qualifications of the mechanical systems commissioning agent
C408.2	Service Water Heating System Commissioning	Service water systems shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet or meets the exceptions listed in C408.2.	Y	G003, G003.2 & P010	Indicate location of: - Letter with qualifications of the cx of the service water heating systems commissioning agent
C408.3	Lighting Controls Functional Testing	The lighting controls shall be commissioned by a Colorado registered design professional or approved agency, with exemption for systems in existing buildings where the area of work is less than 10,000 square feet and the new installed lighting load is less than 10 kW.	Y	G003 & G003.2	Indicate location of: - Letter with qualifications of the lighting controls functional testing commissioning agent
C405.13 ELECTRIC VEHICLE (EV) SUPPLY EQUIPMENT FOR PROJECTS WITH NEW PARKING					

05.08.2024

Code Section	Focus Area	Code Description	Drawing or Specification Number (to demonstrate compliance (N/A if not applicable))	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.13	EV Spaces	For new parking facilities, provide calculations showing the number of installed spaces, ready spaces, and capable spaces per C405.13.1: Quantity Electric Vehicle Supply Equipment. Provide drawings showing the total number of these spaces and the accessible and universal spaces.	Y	SP100, SITE PLAN PAGE 5 OF 18 SDP SUBMITTAL	Indicate location of: - Supplemental calculations if applicable - Drawings showing EVSE Installed Spaces, EV Capable spaces and EV ready spaces with the quantity of each type clearly identified
C405.14 / APPENDIX CB - SOLAR ACCESS					
C405.14 CB 103.1 CB 103.3 CB 103.4 CB 103.5	Solar Ready Zone Requirements	Provide solar-ready zone on roofs of commercial buildings of less than or equal to five stories in height above grade plane, and either oriented between 110° and 270° of true north or have low-slope roofs (2:12). Solar-ready zone to be no less than 40% of roof area and no side shall be less than 5 feet in length. No obstacles or shading from vents, ducts, pipes, HVAC equipment, skylights, and roof-mounted equipment shall be located in the solar-ready zone.	Y	A140	Indicate location of: - Calculations showing roof area per C405.14 Solar Access Requirement and Appendix CB Solar Ready Zone - Solar-ready zones on drawings and indicate the roof pitch, number of stories in height above grade plane, and orientation - Structural design loads for dead load and live loads for solar-ready zone
C405.14 CB 103.6 CB 103.7	Interconnection Pathways Storage	Indicate with conduit or piping from the solar ready zone to the electrical panel and electrical energy storage system area or hot water system. Electrical energy storage system-ready area shall not be less than 2 feet by 4 feet on either dimension.	Y	A110, A150	Indicate location of: - Drawings with interconnection pathways - Drawings with location and layout diagram of energy storage system-ready area
C405.9 VERTICAL AND HORIZONTAL TRANSPORTATION SYSTEMS AND EQUIPMENT					
C405.9.1	Elevator Cabs	Elevator cabs shall meet the requirements for luminaires, ventilation fans and controls.	N/A	Project does not include an elevator.	Indicate location of: - Elevator specifications - Supplemental calculations if applicable
C405.9.2	Escalators and Moving Walkways	Escalators and moving walkways shall reduce speed or have variable voltage drive for light loading conditions. Escalators shall recovery electrical energy.	N/A	Project does not include an escalator.	Indicate location of: - Escalator and moving walkway specifications

Version 1 & Dated March 1, 2024

05.08.2024

Planning Tool for C406.3: 2022 Denver Energy Code Additional Energy Efficiency Credit Requirements for New Construction and CSO2 Additions

Instructions: Enter values in to applicable cells. Floor areas in Tables C406.1(1) and C406.1(2) must match.

Project Background

1. Property is all-electric (Y/N):	Y	3. C403.2.4 Space Heating is required (Y/N):	Y
2. Project is non-previously-occupied tenant space (Y/N):	Y	4. C404.10 Water Heating is required (Y/N):	Y
5. Using CB52 for Denver Green Code LMI Compliance (Y/N):	Y		

Credit Requirements Table C406.1(2)

	Floor Area by Building Type (sf)	Denver Credit Requirements		Use Group for Table C406.1(1)
		All-Electric Properties[a]	All Other Buildings	
Multifamily		11	44	Group R
Healthcare/Hospital		11	44	Group I
Hotel/Motel		11	40	Group R
Office		11	35	Group B
Retail		11	39	Group M
School		11	28	Group E
Warehouse		11	52	Other Occupancies (Group S)
All Other	2,400	11	44	Other Occupancies
Total	**2,400**			
Area Weighted Denver Credit Requirements		11	44	
Building Credit Requirement	**10**			

a. Where the all-electric property complies with Sections C406.13 and C406.15. All-electric properties shall not be eligible for credits from Sections C406.13 and C406.15.

1. Check Floor Area matches in Tables C406.1(1) and C406.1(2)	Y
2. Check project achieves required credits (Pass / Needs Additional Credits)	PASS
3. Summary requirements versus credits:	Building Credit Requirement is 10 and Included Credits are 12

C406.7.1 Prorate Service Hot Water Credits - Optional

	Floor Area by Building Type (sf)	Percent Prorated by Building Floor Area (%)
Group R-1: Boarding houses, hotels or motels		
Group I-2: Hospitals, psychiatric hospitals and nursing homes		
Group R-2		
Total Group R and I	0	0%
Group E: Schools with full-service kitchens or locker rooms with showers		
Total Group E	0	
Group A-2: Restaurants, banquet halls and buildings containing food preparation areas	2,400	
Group F: Laundries		
Group A-3: Health clubs and spas		
Total Other Occupancies	**2,400**	100%
Buildings with service hot water load of 10% or more of total building energy loads, as shown with an energy analysis described in Section C407		Buildings with service hot water load of 10% are not included in this tool Provide separate documentation
1): Building must comply with C404.2.1 High Input Service Water-Heating Systems (Y/N):	Y	Buildings that must comply with C404.2.1 are eligible for half the credits of C406.7.2.

Table C406.1 Additional energy efficiency credit requirements for Denver

	Group B	Group R and I	Group E	Group M	Other Occupancies[a]	Total Area (sf)
Enter floor Area by Use Group (sf)					2,400	**2,400**
Check: Too many credits selected for (Dit if blank):						
Included Credits by Use Group	**0**	**0**	**0**	**0**	**12**	Total Included Credits
Total Floor Area Weighted Included Credits						**12**

Section	Included in COMcheck IECC-2021 OR Denver Specific	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Enter Y if included	Denver Credits	Notes	Documentation	Calculation Type	Threshold
C406.2.1: 5% Heating Efficiency Improvement	COMcheck IECC-2021		1		1		3		2		1	Select only 1 from C406.1.2, C406.2.3, C406.2.6	Calculation	Efficiency % diff	5%
C406.2.2: 5% Cooling Efficiency Improvement	COMcheck IECC-2021		2		1		3		1		1	Select only 1 from C406.2.2, C406.2.4, C406.2.5	Calculation	Efficiency % diff	5%
C406.2.3: 10% Heating Efficiency Improvement	COMcheck IECC-2021		3		2		5		3		3	Select only 1 from C406.1.2, C406.2.3, C406.2.6	Calculation	Efficiency % diff	10%
C406.2.4: 10% Cooling Efficiency Improvement	COMcheck IECC-2021		4		1		2		2		2	Select only 1 from C406.2.2, C406.2.4, C406.2.5	Calculation	Efficiency % diff	10%
C406.2.5: >10% Cooling Efficiency Improvement	Denver Specific											Select only 1 from C406.2.2, C406.2.4, C406.2.5 Manually enter credits and provide calculation	Calculation	Modified efficiency % diff	>10%
C406.2.6: >10% Heating Efficiency Improvement	Denver Specific											Select only 1 from C406.1.2, C406.2.3, C406.2.6 Manually enter credits and provide calculation	Calculation	Modified efficiency % diff	>10%
C405.5: Reduced Light Power	COMcheck IECC-2021 with Denver Specific instructions		7		2		8		12		7	Select only 1 from C405.3, C405.3.2 15%, C405.3.2 >15%. Denver modifies Building Area Method Table C405.3.2(1)	Calculation	Efficiency % diff	10%
C406.3.2: Reduced lighting power by 15%	COMcheck IECC-2021 with Denver Specific instructions		11		3		12		18	Y	11	Select only 1 from C405.3, C405.3.2 15%, C405.3.2 >15%. Denver modifies Building Area Method Table C405.3.2(1)	Calculation	Efficiency % diff	15%
C406.3.2: Reduced lighting power by >15%	COMcheck IECC-2021 with Denver Specific instructions											Select only 1 from C405.3, C405.3.2 15%, C405.3.2 >15%. Denver modifies Building Area Method Table C405.3.2(1)	Calculation	Modified efficiency % diff	>15%
C406.4: Enhanced Digital Light Ctrl	COMcheck IECC-2021		2		NA		2		3		2		Drawing, Sequence of Ops	NA	
C406.5.1: Basic Renewable Credit	COMcheck IECC-2021		9		7		6		7		2	Select only 1 from C406.5.1, C406.5.2	Calculation	Capacity	
C405.5.2: Enhanced Renewable Credit	Denver Specific											Select only 1 from C405.5.1, C405.5.2. Manually enter credits and provide calculation	Calculation	Modified Capacity	
C406.6: Dedicated OA Sys (DOAS)	COMcheck IECC-2021		5		8		NA		3		5		Drawing, Sequence of Ops	NA	
C406.7.2: Recovered/Renew SWH[b]	COMcheck IECC-2021		NA		0				NA		7	Enter building types in Table C405.7.1 to prorate. If must comply with C404.2.1, eligible for half the credits	Calculation	Capacity	
C406.7.3: Efficient fossil fuel SWH[b]	COMcheck IECC-2021		NA		0				NA		6	Enter building types in Table C406.7.1 to prorate	Schedule	NA	
C406.7.4: Heat Pump SWH[b]	COMcheck IECC-2021		NA		0				NA		5	Enter building types in Table C406.7.1 to prorate	Schedule, Drawing	NA	
C406.8.1: Reduced envelope UA	COMcheck IECC-2021 with Denver Specific instructions		10		4		2		4		5	Select only 1 from C406.8.1, C406.8.2	Calculation	UA % diff	15%
C406.8.2: Further reduced envelope UA	COMcheck IECC-2021 with Denver Specific instructions		15		6		3		6		8	Select only 1 from C406.8.1, C406.8.2	Calculation	UA % diff	25%
C405.9.1: Reduced Air Infiltration	COMcheck IECC-2021		4		5		NA		2		4	Select only 1 from C405.9.1, C405.9.2	Document, Report	NA	0.25 cfm/sf at 75 Pa
C405.9.2: Further Reduced Air Infiltration	Denver Specific - threshold only		7		8		NA		3		7	Select only 1 from C405.9.1, C405.9.2	Document, Report	NA	0.15 cfm/sf at 75 Pa
C406.10: Energy Monitoring	COMcheck IECC-2021		2		1		2		3		2		Drawings, Specs	NA	
C406.11: Fault Detection	COMcheck IECC-2021		1		1		1		1	Y	1		Drawings, Specs	NA	
C405.12: Efficient Kitchen Equipment	COMcheck IECC-2021											Manually enter points and provide calculation - 10 Max	Calculation	Modified efficiency % diff	
C406.13: All-Electric Space Heating	Denver Specific		0		0		0		0		0	All-Electric Properties are not eligible. Available when not required by C403.2.4	Calculation	kbtu/sf	
C405.14: Cold Climate Heat Pumps	Denver Specific		4		5		5		9		6		Schedule, Calculation	kbtu/sf	
C406.15: All-Electric Water Heating	Denver Specific		0		0		0		0		0	All-Electric Properties are not eligible. Available when not required by C404.10	Drawing	NA	
C405.16: Demand Responsive Thermostats	Denver Specific		1		1		1		1		1		Drawings, Specs	NA	
C406.17.1: Reduced Fan Power	Denver Specific		2		NA		6		7		3	Select only 1 from C406.17.1, C406.17.2	Calculation	Fan power % diff	10%
C406.17.2: Further Reduced Fan Power	Denver Specific		4		NA		11		14		6	Select only 1 from C406.17.1, C406.17.2	Calculation	Fan power % diff	20%

a. Other occupancy groups include all Groups except for Groups B, R, I, E, and M

b. For occupancy groups listed in C406.7.1

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DENVER CO 80238

Issue Record:

05/09/2024	PERMIT SET

Revisions:

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Project No.: 05-5119

Contents:

DEC Compliance Checklist

E801

2022 Denver Energy Code - Commercial Compliance Checklist
Prescriptive Path - Power & Lighting

DENVER COMMUNITY PLANNING & DEVELOPMENT

Project Address: 8968 E. 46th Ave Denver CO 80238

Date: 4/23/2024

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
ALL COMPLIANCE PATHS					
C405.4	lighting for plant growth and maintenance	This section applies to indoor agriculture facilities. Electronic ballasts are required for all non-LED lighting with replaceable lamps. At least 95% of total watts of lighting for plant growth must meet photosynthetic photon efficacy per this section.	N/A	Project does not include agriculture facility.	Indicate location of: - Documentation for luminaire or lamp efficacy compliance - Supplemental calculations if applicable Verify on the electrical plans that the new plant growth luminaires are listed by an OSHA NRTL as an assembly and not as an assembly of individually listed components, or if no listing is available for the luminaires, verify that the luminaires will be field certified by an OSHA NRLT and provide the appropriate standard by which the luminaires will be field tested to.
C405.12	Energy Monitoring	For new buildings with a conditioned gross floor area of 25,000 square feet or greater, install electrical energy metering, end-use metering, a data acquisition system and provide a graphical energy report.	N/A	Project is less than 25,000 square feet	Indicate location of: - Meters for the building and site, HVAC system, interior lighting, exterior lighting, plug load, process load, miscellaneous loads including fireplaces, pools, in-ground spas and snow-melt systems - Specification for accuracy of current sensors, data acquisition and storage, graphical energy reporting - Supplemental calculations if applicable
C405.13.2 C405.13.3 C405.13.4 C405.13.5 C405.13.6	EV Spaces	Provide electric vehicle infrastructure.	N/A	Provided by EV vendor under Separate Permit	Indicate location of: - Raceway or cable assembly, outlet or enclosure, panelboard, switchboard or other electrical distribution directory, dedicated space in electrical room - Marking for "Future electric vehicle supply equipment (EVSE)" - Charging rate for installed spaces - Supplemental calculations if applicable
C405.14 CB 103.8	Solar Ready Electric Service Reserved Space	Main electrical service panel shall have reserve space to allow for installations of two-pole/three-pole circuit breakers for future solar electric and future electrical energy storage system. Reserved spaces to be labeled "For Future Solar Electric" and "For Future Energy Storage." Reserved Spaces shall be positioned at the opposite end of the panel from the panel supply conductor connection.	E600		Indicate location of: - Reserved circuit breaker spaces for the future solar electric and future energy storage on the panel schedule

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.15 C404.12	Electric Infrastructure and Space for Water Heating	Fossil fuel water heating equipment, furnaces and appliances listed in Section C405.15 shall be provided with junction box or equipment connected to electrical panel to allow for future electric appliances or equipment to be installed in the same space. Minimum space for future water heating equipment is defined in Section C404.12.	E110, E600		Indicate location of: - Electrical load calculations for the panels feeding the equivalent future electric appliance and equipment - Information demonstrating what the future electric appliance and equipment load capacity will be and how it is equivalent to the fossil fuel appliances and equipment that will be installed - Junction box and electrical panel directory entry for the dedicated circuit breaker space shall have labels stating, "For future electric equipment".
C402.5.10	Recessed lighting	Recessed lighting shall be IC-rated, labeled with air leakage rate of no more than 2.0 cfm at 75 Pa, and sealed.	E100		Indicate location of: - Drawings with recessed lighting and instructions for gasket or caulk
C403.1.2	Data Centers	Data centers systems shall comply with Sections 6 and 8 of ASHRAE 90.4 with changes listed in C403.1.2: - Maximum Design Electrical Loss Component ELC per Section 8	N/A	Project is not a data center.	Indicate location of: - ITE design load and M/I/f, Annualized ELC
PRESCRIPTIVE COMPLIANCE PATH					
C401.2	COMcheck	Demonstrate compliance with C401.2 by submitting the 2022 Denver Energy Code specific COMcheck compliance certificate and inspection checklist.	E800		Indicate location of: •COMcheck certificate and inspection checklist •Provide COMcheck certificates on a stamped and signed drawing by the Colorado registered design professional responsible for each compliance certificate.
C405.2.2(2.4)	Lighting Controls	Lighting control shall either comply with sections C405.2.1 through C405.2.7, OR provided with luminaire level lighting controls (LLLC) as specified in C405.2.1, C405.2.5, and C405.2.6. If providing LLLC per C405.2.2, 2022 Denver Energy Code requirement C405.2.2(2.4) indicates that the provided LLLC shall be capable of reducing lighting power uniformly by no less than 10% when signaled by demand responsive control.	E100		Indicate location of: - Lighting demand response controls - Sequence of operations - Supplemental calculations if applicable Lighting controls are not required in designated security or emergency areas that are required to be continuously lighted, interior exit stairways, interior exit ramps and exit passageways, normally off emergency egress lighting.
C405.2.1	Occupant Sensor Controls	Occupancy sensors shall be installed in the following rooms: - Classrooms/lecture/training rooms, Conference/meeting/multipurpose rooms, Copy/print rooms, Lounges/breakrooms, Enclosed offices, Open plan office areas, Restrooms, Storage Rooms, Locker Rooms, Corridors, Warehouse storage spaces - Other spaces 300 square feet or less enclosed by floor-to-ceiling height partitions	E100		Indicate location of: - Lighting occupant sensor controls - Sequence of operations - Lighting control zones for warehouse aisleways for C405.2.1.2 if applicable - Open plan offices general lighting control zones not greater than 600 sf per C405.2.1.3 if applicable

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.2.2	Time-switch Controls	Each area of the building that is not provided with occupant sensor controls complying with Section C405.2.1.1 shall be provided with time-switch controls meeting requirements of C405.2.2.1. Lighting controls are not required where controls are provided in accordance with C405.2.4, where patient care is directly provided, where auto-shutoff would endanger occupant safety or security, or shop and laboratory classrooms.	E100, E710		Indicate location of: - Lighting time-switch controls - Sequence of operations
C405.2.3	Light-reduction Controls for general lighting	General lighting shall be provided with light-reduction controls complying with Section C405.2.3.1. Does not apply where occupant sensor controls C405.2.1.1, daylight responsive controls C405.2.4., or special application controls C405.2.5. are provided. Does not apply to certain manual control cases or in corridors, lobbies, electrical rooms and mechanical rooms. Manual control shall allow the occupant to reduce the connected lighting load by at least 50 percent by one of the following or other approved method: •Dimming all lamps or luminaires to less than 20 percent of full power •Dual switching of alternate rows of luminaires, alternate luminaires or alternate lamps •Switching the middle lamp of luminaires independently of the outer lamps •Switching each luminaire or each lamp	E100		Indicate location of: - Lighting controls and sequence of operations
C405.2.4	Daylight-responsive Controls	Daylight responsive controls for general lighting are required in spaces with primary sidelit or toplit zones with at least 150 Watts in primary sidelit daylight zones, 300 Watts in sidelit daylight zones, or 150 Watts in toplit daylight zones. Daylighting controls shall be capable to continuous dimming to 15% of full light output and off.	N/A	Project is a occupancy group A-2, so it is exempt from day light controls	Indicate location of: - Lighting controls and sequence of operations - Primary sidelit, secondary sidelit and toplit daylighting zones on floor plans with and locations of luminaires in these zones
C405.2.5	Specific Application Controls	Either an occupant sensor or time-switch control shall control the lighting listed below, and a manual control shall be installed to separately control the lighting from the general lighting in the space. •Additional lighting for retail under C405.3.2.2.1 •Display and accent lighting. •Display case lighting. •Supplemental task lighting. •Lighting equipment for sale or demonstration in lighting education. •Lighting for nonvisual applications, such as plant growth and food warming, shall be controlled by a time switch control that is independent of the controls for other lighting in the space.	E100		Indicate location of: - Lighting controls and sequence of operations

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.2.5	Specific Application Controls for Sleeping and Dwelling Units	Either an occupant sensor or time switch control shall control the lighting listed below, and a manual control shall be installed to separately control the lighting from the general lighting in the space. •Sleeping units shall have control devices or systems that will automatically switch off all permanently installed lighting and switched receptacles within 20 minutes after all occupants have left the unit, with exceptions for lighting and switched receptacles controlled by card key controls and spaces where patient care is directly provided. •Permanently installed lights within dwelling units shall be provided with controls complying with C405.2.1.1 or C405.2.3.1.	N/A	Project does not have sleeping or dwelling units.	Indicate location of: - Lighting controls and sequence of operations
C405.2.6	Manual Controls	Where required, manual controls shall be located with ready access to occupants and shall be located where the controlled lights are visible, or shall identify the area served by the lights and indicate their status.	E100		Indicate location of: - Manual lighting controls
C405.2.7	Exterior Lighting Controls	Exterior lighting shall be provided with controls meeting C405.2.7.1 through C405.2.7.4 except for lighting for covered vehicle entrances and exits from buildings where required for eye adaption and lighting controlled from within dwelling units.	E115, E710		Indicate location of: - Exterior lighting controls and sequence of operations
C405.2.8	Parking Garage Lighting Control	Lighting for parking garages shall meet the requirements of C405.2.8.	N/A	Project does not have Parking Garage	Indicate location of: - Parking garage lighting controls and sequence of operations
C405.3	Interior Lighting Power	The total interior lighting power allowance is determined using either the Building Area Method or the Space-by-Space Method. Indicate below which of the two methods was chosen for this project.			
C405.3.2.1	Interior Lighting Power Building Area Method	Building Area Method (check box if used) ☐	N/A	Using space by space method	Building Area Method - The interior lighting power allowance is the floor area of each building area type multiplied by the value for the building area type in Table C405.3.2(1) and then summing the lighting power allowance for each building area type. Note that 2022 DEC deletes footnotes a, b, and c of Table C405.3.2(1), requiring sleeping units and dwelling units to be included in the calculation.
C405.3.2.2	Interior Lighting Power Space-by-Space Method	Space-by-Space Method (check box if used) ☐	E800		Space-by-Space Method - The interior lighting allowance is the floor area of each space multiplied by the value for the space type in Table C405.3.2(2) that most closely represents the proposed use of the space, and then summing the lighting power allowances for all spaces. Tradeoffs among spaces are permitted.
C405.5	Exterior Lighting Power Requirements	The total exterior connected lighting power shall be the total maximum rated wattage of all lighting that is powered through the energy service for the building, with exceptions listed in C405.5(1) through (14). The total exterior lighting power allowance is the sum of the base site allowance and the individual allowances for areas that are to be illuminated by lighting powered through the energy service for the building in Table C405.5.2(2) and Table C405.5.2(3). The lighting zone for the building exterior is determined per Table C405.5.2(1).	E115, E600		Existing lighting cannot be excluded when calculating the total connected exterior building lighting power.

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
C405.6	Dwelling Electrical Meter	Each dwelling unit in an R-2 building shall have a separate electrical meter to determine the electrical energy consumed by each dwelling unit occupant.	N/A	SPACE TYPE IS NOT DWELLING UNIT	Indicate location of: - Electrical meters on the electrical drawings if applicable
C405.7	Electric Transformers	Low-voltage dry-type distribution electric transformers shall meet the minimum efficiency requirements in Table C405.7.	N/A	NOT UTILIZING ANY LOW VOLTAGE DISTRIBUTION TRANSFORMER	Indicate location of: - Transformer efficiency
C405.10	Voltage Drop	The total voltage drop across the combination of feeders and branch circuits shall not exceed 5%.	E010		Indicate location of: - Calculations documenting that there are no voltage drops exceeding 5% across the combination of feeders and branch circuits
C405.11	Automatic Receptacle Control	Controls on 50 percent of receptacles in enclosed offices, conference rooms, copy or print rooms, breakrooms, classrooms, individual work stations, and modular partitions and office workstation systems and at least 25 percent of branch circuit feeders for modular furniture not shown on construction documents. Controls function shall comply with C405.11.1.	N/A	RECEPTACLES ARE DESIGNATED FOR EQUIPMENT REQUIRING CONTINUOUS OPERATION	Indicate location of: - Drawings that indicate which receptacles are to be provided with the automatic receptacle control function - Sequence of operation for automatic receptacle controls

Code Section	Focus Area	Code Description	Drawing or Specification Number to demonstrate compliance (N/A if not applicable)	Submitter Notes (e.g. if "N/A" Please explain why requirement does not apply or is not demonstrated on drawings/specs)	Submittal Requirements and Clarifications
CHOOSE SELECTED ADDITIONAL EFFICIENCY CREDITS					
C406.3.1 C406.3.2 C406.3.2	Reduced Lighting Power	Reduced Lighting Power: C406.3.1 - 10% C406.3.2 - 15% C406.3.2 - >15%	E800		Indicate credit selected and location of: - Supplemental calculations if applicable
C406.4	Enhanced Digital Lighting Controls	Meet C405.2.1 through C405.2.3 plus continuous dimming, addressed individually or up to four luminaires per controlled group, and up to eight luminaires per daylight zone, and occupancy sensors capable of being reconfigured through the digital control system.	N/A	PROJECT IS NOT PURSUING THIS CREDIT	Indicate location of: - Lighting controls - Sequence of operations
C406.5.1 C406.5.2	On-site Renewable Energy	C406.5.1 Minimum on-site renewables of 0.25 W/sf or 2% of annual energy used for mechanical, service water heating and lighting C406.5.2 Additional on-site renewables	N/A	PROJECT IS NOT PURSUING THIS CREDIT	Indicate credit selected and location of: - On-site renewable energy system - Supplemental calculations if applicable
C406.10	Energy Monitoring	Install electrical energy metering, end-use metering, a data acquisition system and provide a graphical energy report.	N/A	PROJECT IS NOT PURSUING THIS CREDIT	Indicate location of: - Meters for the building and site, HVAC system, interior lighting, exterior lighting, plug load, process load, miscellaneous loads including Fireplaces, pools, in-ground spas and snow-melt systems - Specification for accuracy of current sensors, data acquisition and storage, graphical energy reporting - Supplemental calculations if applicable

Version 1.0 Dated March 1, 2024

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Contents:

DEC Compliance Checklist

E802

CONTRACTOR TO MOVE 400A-3P CIRCUIT BREAKER IN CIRCUITS (20,22,24) TO MAKE SPACE FOR THE FUTURE ENERGY STORAGE SYSTEM

CONTRACTOR TO MOVE 200A-3P CIRCUIT BREAKER IN CIRCUITS (14,16 18) TO MAKE SPACE FOR THE FUTURE SOLAR ARRAY.

PANEL MARKS: **PANEL MDP**

TECHNICAL SPECIFICATIONS

PANEL TYPE:	neXT Factory Assembled Interior
QUANTITY:	1
AMPS:	800A
VOLTAGE:	208Y/120V
SYSTEM:	3P4W
KAIC:	65 KAIC SC SERIES RATED
MATERIAL:	COPPER BUS
PLATE:	SILVER PLATE
ENCLOSURE:	NEMA 3R CABINETS
MOUNTING:	SURFACE
SECTION:	1

MAIN DISCONNECT DEVICE

FEED DIR:	Bottom
TYPE:	Breaker
AMPS/SENSOR:	800A/-
CATALOG NO.:	XT8NU3800BYU000XXX
POLES:	3
LUGS:	Horiz. XT6 (3) 2/0-400 mcm, No Feed Through Lugs
ACCESSORIES:	TMA

INTERIOR X-VALUES

TOTAL X BUS	AVAILABLE X BUS
24	24

OPTIONS INCLUDED

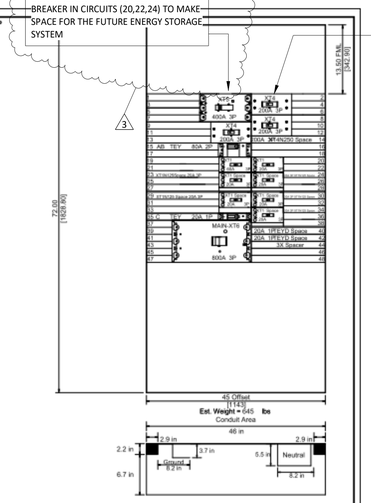
QTY	DESCRIPTION
1	Nameplates
1	Copper Bus 1000A PSI
1	CU Grnd bonded

BOX BOM

QTY	CAT #	DESCRIPTION
1	ER7245R	Enclosure
1	GC45F24NNA	Gutter Covers
1	FT45S00135	Front 1 of 2
1	FT45S00215	Front 2 of 2

INTERIOR BOM

QTY	CAT #	DESCRIPTION
1	GDBG47CU	Ground
1	IN2408NN3B3	Interior Bus Stack
1	NL120INSTNDAL	Neutral
0	MAIN00X84	Main Code - Not a Catalog Number
1	75C14110SP109	Nameplates
1	IF2445F	Interior Frame
1	IL45F	Lifting Kits
2	SR01BB	1X Blank only
2	SR03BB	3X Blank only
1	SR1XBF	1 XT1 Mtg Kit, Wide
1	SR2XBF	2 XT1 Mtg Kit, Wide
2	SR2XBR	2 XT1 Mtg Kit, Narrow
5	SRT1BB	XT1 Blank only


MAIN-XT8
800A 3P
400A 3P
400A 3P
MDV-3P-HV250 Space
400A 3P
400A 3P
MAIN-XT8
800A 3P
400A 3P
400A 3P
400