REGULATORY AGENCIES & UTILITIES

ZONING/BUILDING DEPARTMENT:
VILLAGE OF COLONIE
VILLAGE HALL, 2 THUNDER RD.
COLONIE, NY 12205
T: (518) 869-7562
CONTACT: SMESERVEY@COLONIEVILLAGE.ORG

FIRE DEPARTMENT:
VILLAGE OF COLONIE
VILLAGE HALL, 2 THUNDER RD.
COLONIE, NY 12205
T: (518) 869-7562
CONTACT: SMESERVEY@COLONIEVILLAGE.ORG

HEALTH DEPARTMENT:
ALBANY COUNTY DEPARTMENT OF HEALTH
175 GREEN STREET
ALBANY, NY 12202
T: (518) 447-4580
T DIRECT: (518) 447-4625
CONTACT: ELIZABETH WHALEN

WATER:
VILLAGE OF COLONIE
VILLAGE HALL, 2 THUNDER ROAD
COLONIE, NY 12205
T: (518) 869-7562

WASTEWATER/SEWER:
VILLAGE OF COLONIE
VILLAGE HALL, 2 THUNDER ROAD
COLONIE, NY 12205
T: (518) 869-7562

ELECTRICAL /GAS UTILITY:
NATIONAL GRID
636 QUAKER ROAD.
QUEENSBURY, NY 12804
T:(800) 260-0054
CONTACT: CFNY@NATIONALGRID.COM

SCOPE OF WORK

TENANT INTERIOR IMPROVEMENTS TO AN EXISTING SHELL BUILDING

GROUP	TENANT	USE
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	A-2 (NO CHANGE)

SIGN VENDOR

BROADWAY NATIONAL
100 DAVIDS DR.
HAUPPAUGE, NY 11788
CONTACT: DAWN GALAIDA
E:DGALAIDA@BROADWAYNATIONAL.COM
T: (631) 440-2394

UTILITY COORDINATOR

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

EBI CONSULTING
530 TECHNOLOGY DRIVE, SUITE 100
IRVINE, CA 92618
CONTACT: JULIO VERA
E: JVERA@EBICONSULTING.COM
T: (787) 344-1439

GRAPHIC SYMBOLS

EXTERIOR ELEVATION MARKER
INTERIOR ELEVATION MARKER
SECTION MARKER
SECTION / DETAIL
VIEW LABEL
COLUMN GRID LABEL
ROOM NAME & NUMBER

REVISION NUMBER
DOOR NUMBER
MISCELLANEOUS EQUIPMENT NUMBER
FURNITURE NUMBER
KITCHEN EQUIPMENT NUMBER
WASHROOM ACCESSORIES NUMBER
WALL TAG
LEVEL TARGET
NORTH ARROW
DIMENSION TARGET
FINISH TAG

ABBREVIATIONS

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

STORE NUMBER: 31-4939

COLONIE

1707 CENTRAL AVE, COLONIE, NY 12205

PROJECT DIRECTORY

ARCHITECT OF RECORD:
INTERIOR ARCHITECTS, P.C. A NEW YORK PROFESSIONAL SERVICES CORPORATION
JASON COATS, LICENSE #042884
615 S. COLLEGE STREET, SUITE 725
CHARLOTTE, NC 28202
E: J.COATS@INTERIORARCHITECTS.COM
T: (404) 908-1540

MEP ENGINEER:
BOWMAN ENGINEERING
4303 E BRIGHTON BLVD #300
DENVER, CO 80216
CONTACT: BRIAN EHLE
E: BEHLE@BOWMAN.COM
T: (720) 853-0233

IA PROJECT CONTACT
INTERIOR ARCHITECTS
MELISSA STONIKINIS
1217 SAMSON STREET, FLOOR 8
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T: (215) 203 2890

STRUCTURAL ENGINEER:
BRITT, PETERS & ASSOCIATES, INC.
999 WATERSIDE DR. SUITE 2202
NORFOLK, VA 23510
CONTACT: DENNIS ALTMAN
E: DALTMAN@BRITTPETERS.COM
T: (757) 965-5710

CLIENT CONTACT:
CHIPOTLE MEXICAN GRILL
PO BOX 182566
COLUMBUS, OH 43218-2566
CONTACT: DANIEL RADMAN
E: DRADMAN@CHIPOTLE.COM
T: (203) 247-3636

LANDLORD / OWNER:
RIDGEBACK/BBL
254 OLD WOLF ROAD
ALBANY, NY 12110
CONTACT: DANIEL SCARING - MANAGING PARTNET
E: SHHG23@GMAIL.COM

CONTRACTOR:
TBD

CODE REFERENCES

BUILDING CODE:	2020 BUILDING CODE OF NEW YORK STATE
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE (NFPA 70)
PLUMBING CODE:	2020 PLUMBING CODE OF NEW YORK STATE
MECHANICAL CODE:	2020 MECHANICAL CODE OF NEW YORK STATE
ENERGY CONSERVATION CODE:	2020 ENERGY CONSERVATION CODE OF NEW YORK STATE
ACCESSIBILITY CODE:	2009 ICC ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
FIRE CODE:	2020 FIRE CODE OF NEW YORK STATE
FUEL GAS CODE:	2020 FUEL GAS CODE OF NEW YORK STATE
PROPERTY MAINTENANCE CODE:	2020 PROPERTY MAINTENANCE CODE OF NEW YORK STATE

GENERAL NOTES

1. CONTRACT DOCUMENTS
THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS CALLED FOR BY ANY WILL BE AS BINDING AS IF CALLED FOR BY ALL. THE CONTRACT DOCUMENTS CONVEY THE DESIGN INTENT FOR THE PROJECT. THE CONTRACTOR SHALL CAREFULLY STUDY AND COMPARE THE CONTRACT DOCUMENTS AND SHALL COORDINATE THE WORK OF THE DOCUMENTS WITH THE WORK OF VENDOR PROVIDED INFORMATION ASSOCIATE WITH THE PROJECT. THE CONTRACTOR SHALL DISTRIBUTE COMPLETE CONTRACT DOCUMENTS TO PARTIES RESPONSIBLE FOR PERFORMING THE WORK SO THAT NO PARTY RECEIVES LIMITED INFORMATION.

2. COORDINATION OF THE WORK
THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR REVIEW AND VERIFICATION OF THE CONTRACT DOCUMENTS, FIELD CONDITIONS, VENDOR DESIGN DRAWINGS INCLUDING DELEGATED DESIGN WORK BY OTHERS, AND DIMENSIONS FOR ACCURACY AND FOR CONFIRMING THE WORK IS CONSTRUCTIBLE PRIOR TO PROCEEDING WITH THE WORK. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE BUILDING OWNER SO AS NOT TO DISTURB OR CAUSE DAMAGE TO OTHER TENANT SPACES OR BUILDING AREAS. THE CONTRACTOR SHALL SECURE A CURRENT COPY OF PUBLISHED CONSTRUCTION/CONTRACTOR BUILDING GUIDELINES AND REGULATIONS FROM THE BUILDING MANAGEMENT AND COMPLY. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF RECORD IN WRITING OF CONFLICTS AND OBTAIN A WRITTEN CLARIFICATION FROM THE ARCHITECT OF RECORD PRIOR TO PROCEEDING WITH THE WORK.

3. DIMENSIONS
DO NOT SCALE DRAWINGS. DIMENSIONS AND WORKPOINTS PROVIDED ARE TO STRUCTURAL GRID OR TO EXPOSED FACE OF A FINISH, UNLESS OTHERWISE NOTED. CONTRACTOR SHALL VERIFY DIMENSIONS WITH CONDITIONS IN THE FIELD AND SHALL SECURE WRITTEN RESOLUTION OF CONFLICTS FROM THE ARCHITECT PRIOR TO INITIATING THE WORK. DO NOT ADJUST DIMENSIONS INDICATED AS "CLEAR" OR "HOLD" WITHOUT WRITTEN DIRECTION FROM ARCHITECT. CONTRACTOR TO NOTIFY ARCHITECT OF ANY DIMENSIONS THAT DIFFER BY MORE THAN "1 INCH", INCLUDING THOSE MARKED "VIF" AND "+/-".

4. DELEGATED DESIGN WORK BY OTHERS
SYSTEMS INDICATED AS DELEGATED DESIGN SHALL BE ENGINEERED, AND STAMPED BY QUALIFIED PROFESSIONAL ENGINEERS LICENSED IN THE JURISDICTION OF THE WORK. IT IS THE RESPONSIBILITY OF THE ENGINEER OF RECORD FOR THESE SYSTEMS TO SECURE AGENCY APPROVALS, INCLUDING REQUIRED FEES ASSOCIATED WITH PERMIT APPROVAL. THESE SYSTEMS SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS AND SHALL COMPLY WITH APPLICABLE LEGAL REQUIREMENTS INCLUDING COMPREHENSIVE ENGINEERING ANALYSIS UTILIZING PERFORMANCE AND DESIGN CRITERIA INDICATED IN THE CONTRACT DOCUMENTS.

DEFINITIONS

ALIGN	TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE
CLEAR / CLR / HOLD	DIMENSIONS ARE ABSOLUTES, UNOBSTRUCTED FROM FACE OF EXPOSED FINISH SURFACES.
DEMOLISH	TO DECONSTRUCT COMPLETE SYSTEM, HAUL, AND DISPOSE OF MATERIAL, INCLUDING APPROPRIATE PULL BACK AND TERMINATION/CAPPING OF RELATED BUILDING SERVICES
SALVAGE	DIS-ASSEMBLE, CONVEY OR STORE MATERIAL PER OWNERS INSTRUCTIONS
REUSE	SALVAGE, STORE ON SITE, RE-INSTALL
INSTALL	ON-SITE OPERATIONS INCLUDING UNLOADING, TEMPORARY STORAGE, UN-PACKING, ASSEMBLY, PLACING, ANCHORING, APPLYING, FINISHING, PROTECTING, AND CLEANING COMPLETE AND OPERATIONAL ELEMENTS, EQUIPMENT, AND SYSTEMS
FURNISH	PROCURE AND STORE ON-SITE MATERIAL FOR INSTALLATION BY OTHERS
PROVIDE	FURNISH AND INSTALL COMPLETE AND OPERATIONAL SYSTEM
NOTIFY	TO INFORM THE STATED PARTIES IN WRITING AND SEEK RESOLUTION PRIOR TO COMMENCING WORK

HAZARDOUS MATERIAL NOTES

- INTERIOR ARCHITECTS SHALL HAVE NO RESPONSIBILITY FOR THE DISCOVERY, REMOVAL, PRESENCE, HANDLING, DISPOSAL OF, OR EXPOSURE OF PERSONS TO HAZARDOUS SUBSTANCES, MATERIALS, AND WASTES IN ANY FORM AT THE PROJECT SITE, INCLUDING BUT NOT LIMITED TO: ASBESTOS, ASBESTOS PRODUCTS, PCB MOLD, OR OTHER TOXIC OR HARMFUL SUBSTANCES.
- QUESTIONS THAT ARISE RELATED TO HAZARDOUS MATERIALS SHALL BE REFERRED TO THE OWNER FOR RESOLUTION. INTERIOR ARCHITECTS SHALL NOT BE REQUIRED TO DO WORK NOR RENDER OPINIONS RELATED TO HAZARDOUS MATERIALS.
- CONTRACTORS SHALL REPORT THE PRESENCE OF MATERIAL OR ASSEMBLIES SUSPECTED TO CONTAIN HAZARDOUS MATERIALS UPON DISCOVERY TO THE OWNER. WORK SHALL BE HALTED UNTIL WRITTEN CLEARANCE TO CONTINUE HAS BEEN PROVIDED BY THE OWNER'S CERTIFIED HAZARDOUS MATERIALS CONSULTANTS.

FURNITURE, FLOOR CORE & LIGHTING COORDINATION

CONTRACTOR, FURNITURE VENDOR, DESIGN BUILD SUB-CONTRACTORS AND OWNER'S SUBCONTRACTORS ARE ALL REQUIRED TO USE THE ARCHITECTURAL DIMENSION WORK POINTS ESTABLISHED FOR OPEN PLAN PENDANT LIGHTING AND FURNITURE CENTERLINES WHERE APPLICABLE. CONTRACTOR AND VENDOR PREPARED SHOP DRAWINGS SHALL DOCUMENT THE ARCHITECTURAL DIMENSION WORK POINTS FOR THE ARCHITECT'S REVIEW PRIOR TO START OF WORK. FIELD LAYOUT REVIEW REQUESTED OF THE ARCHITECT MUST UTILIZE ON ESTABLISHED WORK POINTS. FLOOR CORE LOCATIONS SERVING FURNITURE ARE THE SOLE RESPONSIBILITY OF THE FURNITURE VENDOR, INCLUDING FIELD VERIFICATION OF LAYOUT CONSISTENT WITH THE FLOOR CORING REQUIREMENTS IDENTIFIED HEREIN.

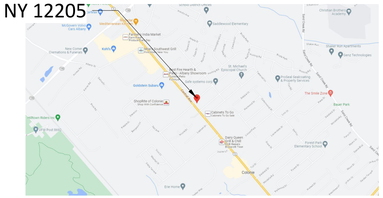
SHEET INDEX

DRAWING INDEX AND REVISIONS

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G001	PROJECT DATA & LIFE SAFETY PLAN															
G002	ACCESSIBILITY REQUIREMENTS															
G010	ARCHITECTURAL SPECIFICATIONS															
G011	ARCHITECTURAL SPECIFICATIONS															
G012	ARCHITECTURAL SPECIFICATIONS															
G013	ARCHITECTURAL SPECIFICATIONS															
G014	ARCHITECTURAL SPECIFICATIONS															
G015	ARCHITECTURAL SPECIFICATIONS															
G016	ARCHITECTURAL SPECIFICATIONS															
G017	ARCHITECTURAL SPECIFICATIONS															
G018	ARCHITECTURAL SPECIFICATIONS															
G019	ARCHITECTURAL SPECIFICATIONS															
G020	ARCHITECTURAL SPECIFICATIONS															
G021	ARCHITECTURAL SPECIFICATIONS															
G022	ARCHITECTURAL SPECIFICATIONS															
G023	ARCHITECTURAL SPECIFICATIONS															
G024	ARCHITECTURAL SPECIFICATIONS															
SITE PLAN																
SP100	ARCHITECTURAL SITE PLAN															
ARCHITECTURAL																
A101	SLAB WORK PLAN															
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A201	REFLECTED CEILING PLAN															
A202	REFLECTED CEILING & UNISTRUT PLAN															
A210	CEILING DETAILS															
A211	LIGHTING DETAILS															
A212	CEILING DETAILS - WOOD STRUCTURE															
A220	TYPICAL INT. STUD AND FRAMING DETAILS															
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S001	TYPICAL DETAILS															
S100	FOUNDATION PLAN															
HVAC																
M010	HVAC SPECIFICATIONS															
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P010	PLUMBING SPECIFICATIONS															
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P110	PLUMBING PLAN WASTE & VENT															
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ELECTRICAL																
E010	ELECTRICAL SPECIFICATIONS															
E100	ELECTRICAL LIGHTING PLAN															
E110	ELECTRICAL POWER PLAN															
E115	ELECTRICAL SITE LIGHTING PLAN															
E600	ELECTRICAL SCHEDULES															
E700	ELECTRICAL INTERIOR ELEVATIONS															
E705	ELECTRICAL INTERIOR ELEVATIONS															
E710	ELECTRICAL DETAILS															

VICINITY MAP

1707 CENTRAL AVE.
COLONIE, NY 12205



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

KEY PLAN



AREA OF WORK

TRUE PLAN 2 / G000 — **KEY SITE PLAN** 1" = 100'-0"

PROJECT INFORMATION

PROJECT ADDRESS:	1707 CENTRAL AVE, COLONIE, NY 12205
ZONE/DISTRICT:	COMMERCIAL A
PARCEL NO.:	012601
PROJECT DESCRIPTION:	TENANT UPFIT OF A FIRST BUILD-OUT INTERIOR SPACE IN A NEW BUILDING FOR A QUICK SERVICE CASUAL DINING RESTAURANT. WORK INCLUDES: NON-STRUCTURAL PARTITIONS, INTERIOR DOORS, SUSPENDED CEILINGS, LIGHTING, FINISHES, FURNITURE/CASEWORK/FOOD SERVICE EQUIPMENT INSTALLATIONS, ASSOCIATED MECHANICAL / PLUMBING / GAS / TELECOMMUNICATION SYSTEMS. EXTERIOR PATIO FURNITURE.
TYPE OF CONSTRUCTION:	V-B
BUILDING OCCUPANCY:	A-2
MAXIMUM OCCUPANCY:	99 OCCUPANTS
BUILDING AREA:	2325 SF
BUILDING NO. OF STORIES:	1
SEISMIC DESIGN CATEGORY:	B
BUILDING LIFE SAFETY INFO:	NON-SPRINKLERED BUILDING
ADDITIONAL REQUIREMENTS:	1. ALL INTERIOR FINISHES SHALL COMPLY WITH THE REFERENCED CODE REQUIREMENTS FOR FLAMMABILITY AND SMOKE DEVELOPED RATINGS AS WELL AS TOXICITY. **WALL AND CEILINGS (PER ASTM E84 OR UL723)** INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS A-2 OCCUPANCY - CLASS A CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: A-2 OCCUPANCY - CLASS A ROOMS AND ENCLOSED SPACES: A-2 OCCUPANCY - CLASS B **FLOORING (PER ASTM E648 OR NFPA 253): CLASS II** CRITICAL RADIANT FLUX OF NOT LESS THAN 0.22 WATTS PER SQUARE CENTIMETER **FLAME SPREAD AND SMOKE-DEVELOPED INDEX** CLASS A: FLAME SPREAD: 0 - 25; SMOKE-DEVELOPED: 0 - 450 CLASS B: FLAME SPREAD: 26 - 75; SMOKE-DEVELOPED: 0 - 450 CLASS C: FLAME SPREAD: 76 - 200; SMOKE-DEVELOPED: 0 - 450
DEFERRED SUBMITTALS & DELEGATED DESIGN WORK BY OTHERS UNDER SEPARATE PERMIT:	DEFERRED SUBMITTALS - SIGNAGE DELEGATED DESIGN - LIGHT GAGE METAL FRAMING - COLD FORM METAL FRAMING

ASSOCIATED BUILDING PERMIT #'s:

SHELL/LANDLORD DRAWINGS:

CIVIL DRAWINGS:

Consultant:
INTERIOR ARCHITECTS
NEW YORK
100 BROADWAY 10TH FLOOR
NEW YORK, NY 10006
T: (212) 682-6909

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CHIPOTLE MEXICAN GRILL, INC.
PO BOX 182566
COLUMBUS, OH 43218-2566
TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 31-4939
COLONIE
1707 CENTRAL AVE,
COLONIE, NY 12205

Issue Record:

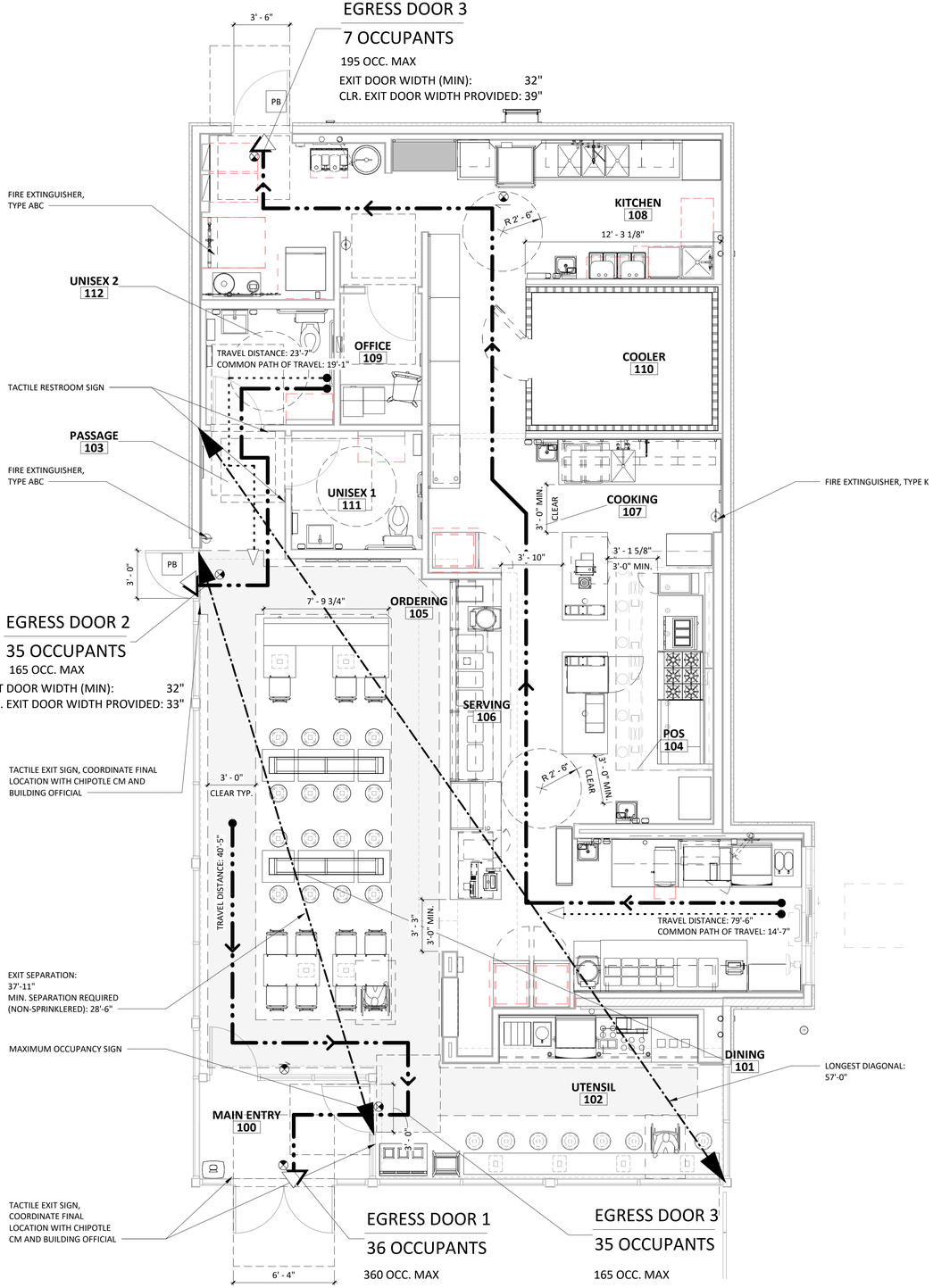
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07/25/24	BID SET
10/31/24	IFC SET

Revisions:

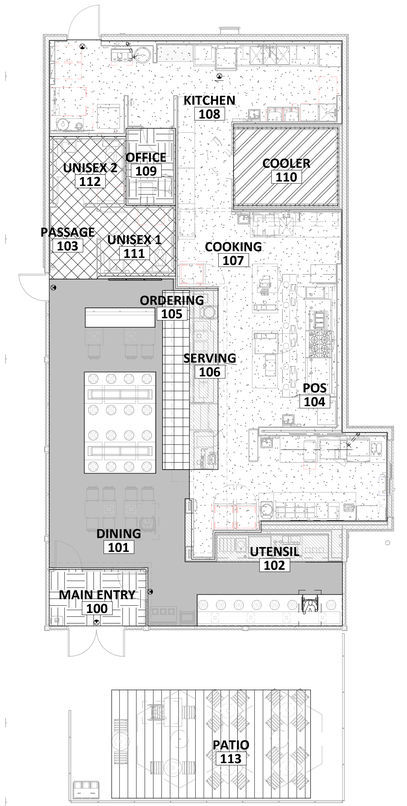
Project No.
24CMGX.0026.000

Contents:
COVER SHEET

G000



1 G001 **EGRESS PLAN**
1/4" = 1'-0"



1 G001 **OCCUPANCY PLAN**
1/8" = 1'-0"

SIGNAGE

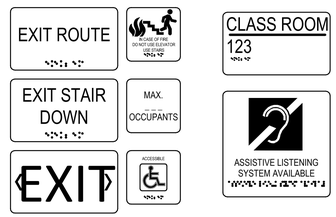
COMPLETE INTERIOR ACCESSIBLE SIGNAGE SHALL BE PROVIDED AT LOCATIONS INCLUDING BUT NOT LIMITED TO:
- ROOM IDENTIFICATION
- DIRECTIONAL AND INFORMATIONAL
- ACCESSIBLE ENTRANCE AT MAIN ENTRY LOBBY
- ELEVATOR CAB OPERATING PANEL
- ELEVATOR ENTRANCE FLOOR IDENTIFICATION AT JAMB
- RESTROOMS
- ELEVATOR LOBBY EMERGENCY EVACUATION

TACTILE EXIT SIGNS SHALL BE PROVIDED AT LOCATIONS INCLUDING BUT NOT LIMITED TO:
- GRADE LEVEL EXIT DOORS "EXIT"
- EXIT DOORS LEADING TO GRADE LEVEL EXIT DOORS (STAIRWELL DOORS) "EXIT STAIR DOWN"
- EXIT DOORS LEADING TO GRADE LEVEL EXTERIOR EXIT "EXIT"
- EXIT ACCESS DOOR LEADING FROM ROOM OR AREA WITH VISUAL EXIT SIGN; "EXIT ROUTE"

PROVIDE "EMERGENCY EVACUATION MAPS" AND SIGNS WHERE REQUIRED PER LOCAL JURISDICTION.

ACCESSIBLE SIGNAGE SHALL BE PROVIDED AS NON-GLARE OVER CONTRASTING BACKGROUND, 1/32" RAISED CHARACTERS, TEXT HEIGHT 5/8" TO 2" AND PICTOGRAMS SHALL BE 6" HIGH MIN. MOUNTING HEIGHT MIN. 4'-0" ABOVE FINISHED FLOOR TO LOWEST BRAILLE AND MAX. 5'-0" TO BOTTOM OF HIGHEST LINE OF RAISED TEXT. MOUNT SIGNS TO LATCH SIDE OF DOOR. AT DOUBLE DOORS AT THE NEAREST WALL PREFERABLE AT THE RIGHT OF THE OPENING.

SELF ILLUMINATING FLOOR LEVEL EXIT SIGNS SHALL BE PROVIDED AT "I" AND "A" OCCUPANCY. E.G. TRITIUM SELF ILLUMINATING FOR 10 YEARS, GREEN FACE, WHITE HOUSING OR SIMILAR.



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 (NON SPRINKLERED)
3. USE GROUP: A-2
   ALLOWABLE AREA: 6,000 S.F.
   ACTUAL AREA: 2,325 S.F.
   TENANT LEASE AREA: 2,325 S.F.
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

OCCUPANCY FUNCTION	AREA	LOAD FACTOR	OCCUPANT LOAD
INTERIOR			
ASSEMBLY (UNCONCENTRATED)	428.6 SF	15 NET	29 OCCS
ASSEMBLY (STANDING SPACE)	60.1 SF	5 NET	13 OCCS
ASSEMBLY W/FIXED SEATS	164.8 SF	IBC SECTION 1004.6	26 OCCS
VESTIBULE - BUSINESS	68.6 SF	150 GROSS	1 OCC
BUSINESS	53.4 SF	150 GROSS	1 OCC
KITCHEN - COMMERCIAL	988.3 SF	200 GROSS	5 OCCS
STORAGE	101.2 SF	300 GROSS	1 OCC
ACCESSORY	180 SF	-	-
NON OCCUPIABLE	275.4 SF	-	-
		INTERIOR TOTAL:	**77 OCCS**
PATIO			
PATIO (ASSEMBLY - UNCONCENTRATED)	258.5 SF	15 NET	18 OCCS
		TOTAL:	**95 OCCS**

POSTED OCCUPANT LOAD
99 OCCUPANTS MAX.

SEATING:
INTERIOR: 36 SEATS
PATIO: 22 SEATS
TOTAL: 58 SEATS

6. MEANS OF EGRESS REQUIRED: 2
   MEANS OF EGRESS PROVIDED: 3
7. FIRE SPRINKLERS: NONE
8. PLUMBING FIXTURES

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

NOTE: RESTROOMS SHOWN AS UNISEX WITH TOTAL FIXTURE COUNTS MET.

CODE AUTHORITIES

BUILDING CODE:	2020 BUILDING CODE OF NEW YORK STATE
EXISTING BUILDING CODE:	2020 EXISTING BUILDING CODE OF NEW YORK STATE
MECHANICAL CODE:	2020 MECHANICAL CODE OF NEW YORK STATE
PLUMBING CODE:	2020 PLUMBING CODE OF NEW YORK STATE
ENERGY CODE:	2020 ENERGY CONSERVATION CODE OF NEW YORK STATE
FUEL GAS CODE:	2020 FUEL GAS CODE OF NEW YORK STATE
ELECTRICAL CODE:	2017 NATIONAL ELECTRICAL CODE (NFPA 70)
FIRE CODE:	2020 FIRE CODE OF NEW YORK STATE
ACCESSIBLITY:	2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
FOOD/RESTAURANT CODE	NEW YORK STATE CODE, TITLE 10, SUBPART 14-1

EGRESS SEPARATION NOTE

OVERALL DISTANCE: 57'-0"

REQUIRED SEPARATION: 28'-6" (NON-SPRINKLERED)

PROVIDED SEPARATION: 37'-11"

OCCUPANCY LEGEND

- BUSINESS 1:150 GROSS
- FIXED SEATING
- ASSEMBLY (A-2, UNCONCENTRATED - TABLES AND CHAIRS) 1:15 NET
- ASSEMBLY (STANDING SPACE) 1:5 NET
- NON-OCCUPIABLE
- KITCHEN, COMMERCIAL 1:200 GROSS
- PATIO 1:15 NET
- STORAGE 1:300 GROSS
- ACCESSORY 'a'

a. AREA UNCLUDING UNOCCUPIED ACCESSORY AREAS SUCH AS CORRIDORS, TOILET ROOMS, MECHANICAL ROOMS AND CLOSETS. INCLUDES WALLS AND FURRED-IN SPACES.

LEGEND

- EXISTING CONSTRUCTION TO REMAIN
- EXIT ACCESS = LESS THAN 200' AT A-2 OCCUPANCY IN NON-SPRINKLERED BUILDING
- COMMON PATH OF EGRESS = LESS THAN 75' AT A-2 OCCUPANCY IN NON-SPRINKLERED BUILDING
- EXIT SIGNAGE
- EXIT / ACCESS TO EXIT
- WALL MOUNTED FIRE EXTINGUISHER. MOUNT WITH VALVE 48" AFF
- PB — PANIC BAR

Consultant:
INTERIOR ARCHITECTS
NEW YORK
100 BROADWAY, 12TH FLOOR
NEW YORK, NY 10006
T: (212) 682-6909

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COLONIE, NY 12205

Issue Record:

02/14/24	PERMIT SET
07/25/24	BID SET
10/31/24	IFC SET

Revisions:

1	03/25/2024	ADDENDUM #1

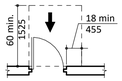
Project No.
24CMGX.0026.000

Contents:
PROJECT DATA & LIFE SAFETY PLAN

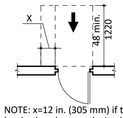
G001

ACCESSIBILITY CLEARANCES

FRONT APPROACH, PULL SIDE



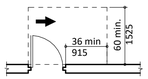
FRONT APPROACH, PUSH SIDE



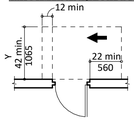
NOTE: x=12 in. (305 mm) if the door has both a closer and a latch

FRONT APPROACHES - SWINGING DOORS

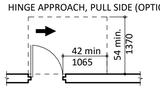
HINGE APPROACH, PULL SIDE (OPTION 1)



HINGE APPROACH, PUSH SIDE



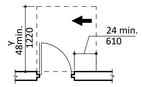
HINGE APPROACH, PULL SIDE (OPTION 2)



NOTES:
y=48 in. (1220 mm) minimum if door has both a latch and a closer. Add 12 inches (305 mm) beyond latch if closer and latch povided.

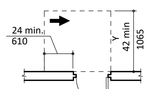
HINGE SIDE APPROACHES - SWINGING DOORS

LATCH APPROACH, PULL SIDE



NOTE: y = 54 in. (1370 mm) minimum if door has a closer

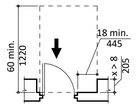
LATCH APPROACH, PUSH SIDE



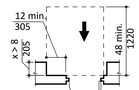
NOTE: y = 48 in. (1220 mm) minimum if door has a closer

LATCH SIDE APPROACHES - SWINGING DOORS

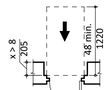
PULL SIDE



PUSH SIDE

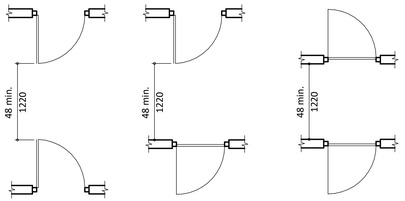


PUSH SIDE

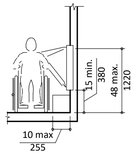


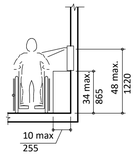
NOTE: door provided with both closer and latch

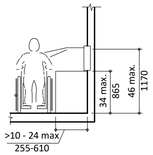
CLEARANCES AT RECESSED DOORS AND GATES



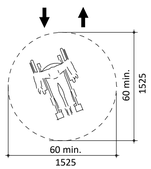
TWO HINGED DOORS IN SERIES

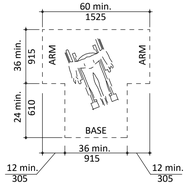




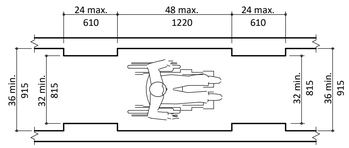


REACH RANGES

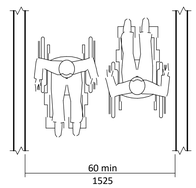




WHEELCHAIR TURNING SPACE

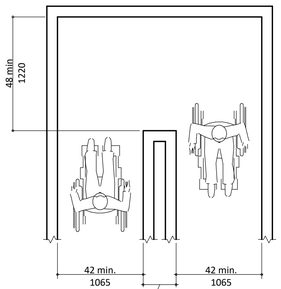


ACCESSIBLE ROUTE

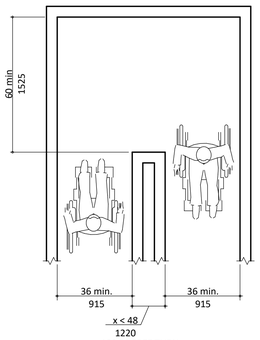


MINIMUM CLEAR WIDTH FOR TWO WHEELCHAIRS

MINIMUM CLEAR WIDTH FOR WHEELCHAIRS

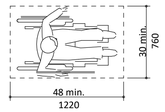


180 DEGREE TURN

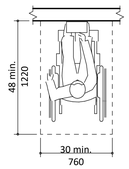


180 DEGREE TURN (EXCEPTION)

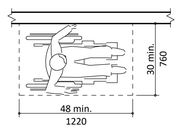
(A)



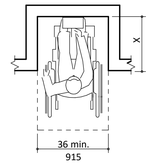
(B)



(C)



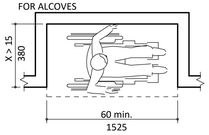
(D)



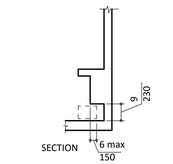
NOTE: X > 24 IN. (610 MM)

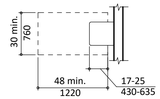
ADDITIONAL MANEUVERING CLEARANCES FOR ALCOVES

(E)



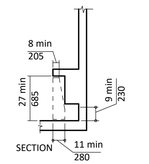
CLEAR FLOOR SPACE

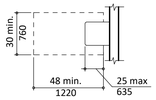




PLAN

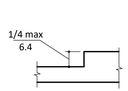
TOE CLEARANCE





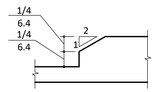
PLAN

KNEE CLEARANCE



(C)

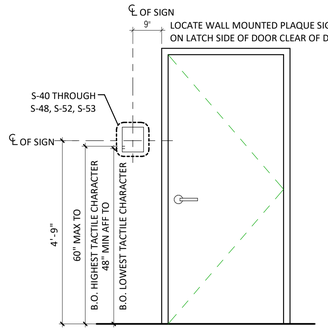
VERTICAL CHANGE IN LEVEL



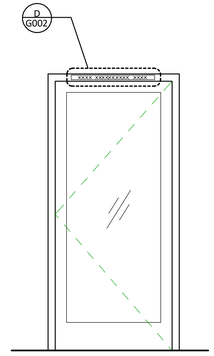
(D)

BEVELED CHANGE IN LEVEL

SIGNAGE



A WALL MOUNTED PLAQUE SIGNAGE



B ENTRY DOOR SIGNAGE (INTERIOR SIDE OF DOORS)

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

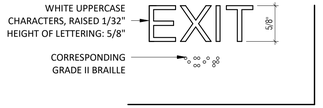
SIGN REQUIREMENTS:

READILY VISIBLE AND DURABLE SIGN SHALL BE PLACED ON THE DOOR FRAME AS INDICATED.

HEIGHT OF LETTERS 1" MINIMUM. LETTERS TO CONTRAST WITH STOREFRONT FINISH.

INSTALL SO NOT VISIBLE FROM STORE EXTERIOR.

D EXIT DOOR SIGNAGE (INTERIOR SIDE OF DOORS)



E TYPICAL LETTERING
NOT TO SCALE

	S-41 PLAQUE - ACCESSIBLE RESTROOM	S-42 PLAQUE - EMPLOYEES ONLY	S-43 PLAQUE - EXIT	S-44 PLAQUE - EXIT ROUTE

TYPICAL MOUNTING HEIGHTS AND ALIGNMENT

Consultant:
INTERIOR ARCHITECTS
NEW YORK
100 BROADWAY 12TH FLOOR
NEW YORK, NY 10006
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COLONIE
1707 CENTRAL AVE,
COLONIE, NY 12205

Issue Record:

02/14/24	PERMIT SET
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10/31/24	IFC SET

Revisions:

Project No.
24CMGX.0026.000

Contents:
ACCESSIBILITY REQUIREMENTS

G002

SECTION 01 10 00 - SUMMARY

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Project requirements.
2. Type of Contract.
3. Work covered by Contract Documents.
4. Other work.
5. Permits
6. Access to site.
7. Coordination with occupants.
8. Occupancy requirements.
9. Work restrictions.
10. Specification and drawing conventions.

1.3 PROJECT REQUIREMENTS

A. Dimensions: Verify dimensions indicated on drawings with field dimensions before fabrication or ordering of materials. Do not scale drawings. When a dimension is required, request information from Architect.

B. Existing Conditions: Notify Architect of existing conditions differing from those indicated on the drawings.

1.4 PROJECT INFORMATION

A. Project Identification: Chipotle.
1. Project Location: 1707 CENTRAL AVE, COLONIE, NY 12205

B. Owner: RIDGEBACK/BBL
1. Owner's Representative: DANIEL SCARING
Email: shhg23@gmail.com

C. Tenant: Chipotle Mexican Grill
1. Tenant's Representative: Design Manager - Daniel Radman, Construction Manager - Robert Mahoney.

D. Architect: IA Interior Architects.
1. Architect's Representative: Jason Coats, AoR. 615 S. College Street, Suite 725. Phone: (404) 908-1540
2. Architect's Representative: Melissa Stonikinis, PoC. 1217 Sansom Street, Floor 8, Philadelphia, PA 19107. Phone: 215.203.2890.

E. Architect's Consultants: Architect has retained the following design professionals, who have prepared designated portions of the Contract Documents:
1. MEP Engineer: Bowman Engineering.
a. MEP Engineer's Representative: Brian Ehle. 4303 E Brighton Boulevard, #300, Denver, CO 80216. Phone: 720.853.0233.
2. Structural Engineer: Britt Peters.
a. Structural Engineer's Representative: Dennis Altman. 999 Waterside Dr. Suite 2202 Norfolk, VA 23510 Phone: 757.965.5710.

F. Contractor:
Contractor Representative: TBD
Address: TBD
Telephone: TBD

1.5 TYPE OF CONTRACT

A. Type of Contract: Project will be constructed under a single prime contract.

1.6 WORK COVERED BY CONTRACT DOCUMENTS

A. The Work consists of interior construction, including but not limited to:
1. New architectural work - partitions, doors, ceilings, finishes, electrical, mechanical, plumbing, and fire protection for a new single-story retail quick casual restaurant.

B. 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.

C. 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.

1.7 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.

1.8 OTHER WORK

A. Separate Contract: Owner will award separate contracts for performance of certain construction operations at Project site. Those operations will be conducted simultaneously with work under this Contract. These contracts will include the following:
1. Security systems (Contractor to furnish and install empty conduits with a junction box where indicated on the Contract Documents).
2. Information Technology, Data and Communication System (Contractor to furnish and install empty conduits with a junction box where indicated on the Contract Documents).
3. Fixtures, furnishings, and equipment to the extent not identified in the Contract Documents. A separate Contract will be awarded by Tenant.
4. Furniture: A separate Contract will be awarded by Tenant for the supply and installation of workstations, office furniture, loose furniture and conference room tables. Other furniture to be determined.
5. Audio Visual systems (Contractor to furnish and install empty conduits with a junction box where indicated on the AV Contract Documents). A separate Contract will be awarded by Tenant for remainder of system.
6. Graphics and Signage Work. A separate Contract will be awarded by Tenant for this work.

B. Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, and without interfering with or delaying work under this Contract.

1.9 PERMITS

A. Contractor shall secure and pay for all permits and governmental fees, licenses and inspections necessary for the proper execution and completion of the Work which are customarily secured after execution of the Contract and which are legally required.
B. If required by governmental authority, Owner will make application for permits and licenses using forms obtained and prepared by Contractor and with all costs paid by Contractor.

1.10 ACCESS TO SITE

A. General: Contractor shall have full use of Project site for construction operations during construction period. Contractor's use of Project site is limited only by Owner's right to perform work or to retain other contractors on portions of Project.
B. Access: At all times, provide Architect and Owner's representatives, easy and safe access to the Work wherever it is in preparation and progress. Provide such access so Architect may perform its functions.
C. Landlord's or Property Manager's Rules: Conform at all times to Landlord's and Property Manager's requirements for protection of plant, materials, equipment, and noise levels. A copy of Landlord's or Property Manager's rules (tenant work letter or lease requirements) will be furnished upon written request from Owner.
D. Use of Site: Confine operations at the site to areas permitted by law, ordinances, permits, and the Contract Documents and do not unreasonably encumber the Site with materials or equipment.
1. Driveways, Walkways and Entrances: Keep driveways parking garage, loading areas, and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials.
a. Schedule deliveries to minimize use of driveways and entrances by construction operations.
b. Schedule deliveries to minimize space and time requirements for storage of materials and equipment on-site.

E. Maintain portions of existing building affected by construction operations in a weathertight condition throughout construction period. Repair damage caused by construction operations.
Protect building and its occupants during construction period.

1.11 COORDINATION WITH OCCUPANTS

A. Full Owner Occupancy: Owner will occupy site and existing buildings during entire construction period. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's day-to-day operations. Maintain existing exits unless otherwise indicated.

B. Schedule use of premises for Work and coordinate construction operations with the Owner to allow for Owner occupancy.
1. Schedule use of premises for Work and coordinate construction operations with the Owner to allow for use of site and premises by the public.
2. Perform the Work during normal business hours only upon approval of the Owner.
3. Perform demolition work after business hours or at such times as approved by Owner. Demolition work includes, but is not limited to, sprinkler work, concrete saw cutting, spray painting, hammering, nailing, and similar work, which may cause noise, dust, or odors, thereby disturbing occupants.
4. Keep premises orderly, clean and with a minimum of obstruction and inconvenience to the tenants and the public.
5. Limit use of site to areas designated unless otherwise allowed by OwnerOwner in writing.
6. Relocate stored products that interfere with public access, operations of the Owner or separate Contractor. If necessary, obtain and pay for additional storage or work areas needed for operations.
7. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and approval of authorities having jurisdiction.
8. Notify Owner not less than 72 hours in advance of activities that will affect Owner's operations.

1.12 OCCUPANCY REQUIREMENTS

A. Owner Occupancy: Owner will occupy the premises during entire construction period, with the exception of areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits unless otherwise indicated.
1. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
2. Provide not less than 72 hours' notice to Owner of activities that will affect Owner's operations.

B. Partial Owner Occupancy: Owner reserves the right to occupy and to place and install equipment in completed areas of the site, before Substantial Completion, provided such occupancy does not interfere with completion of the Work. Such placement of equipment and partial occupancy shall not constitute acceptance of incomplete portions of the Work, nor shall it relieve the Contractor of its responsibility for completion of the Work in accordance with the Contract Documents.
1. Architect will prepare a Certificate of Substantial Completion for each specific portion of the Work to be occupied before Owner occupancy.
2. Obtain a Certificate of Occupancy from authorities having jurisdiction before Owner occupancy.
a. Before partial Owner occupancy, mechanical and electrical systems shall be fully operational, and required tests and inspections shall be successfully completed. On occupancy, Owner will provide, operate, and maintain mechanical and electrical systems serving occupied portions of the site.
b. On occupancy, Owner will assume responsibility for maintenance and custodial service for occupied portions of the site.

1.13 WORK RESTRICTIONS

A. Work Restrictions, General: Comply with restrictions on construction operations.
1. Comply with limitations on use of public streets and with other requirements of authorities having jurisdiction.

B. Contractor's Conduct on Premises: The Contractor and their employees shall behave in a respectful, courteous and safe manner. Abusive, harassing, and lewd behavior is prohibited.
Music playing is prohibited. Alcohol, tobacco, and drug use is prohibited.
1. Comply with Owner's security requirements.

C. On-Site Work Hours: Limit work in the existing building to normal business working hours of Monday through Friday, unless otherwise indicated.

D. Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others.

E. Noise, Vibration, and Odors: Coordinate operations that may result in high levels of noise and vibration, odors, or other disruption to Owner occupancy with Owner.
1. Notify Owner not less than two days in advance of proposed disruptive operations.

F. Nonsmoking Building: Smoking is not permitted within the building or within 25 feet (8 m) of entrances, operable windows, or outdoor-air intakes.

G. Employee Identification: Owner will provide identification tags for Contractor personnel working on Project site. Require personnel to use identification tags at all times.

1.14 SPECIFICATION AND DRAWING CONVENTIONS

A. These specifications are a specialised form of technical writing edited from master specifications and contain deviations from traditional writing formats. Capitalization, underlining and bold print is only used to assist reader in finding information and no other meaning is implied.

B. Except where specifically indicated otherwise, the subject of all imperative statements is the Contractor.

C. Sections are generally numbered in conformance with Construction Specifications Institute Masterformat System. Numbering sequence is not consecutive. Refer to the Table of Contents for names and numbers of sections included in this Project.

D. Pages are numbered separately for each section. Each section is noted with "End of Section" to indicate the last page of a section.

E. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
1. Imperative mood and streamlined language are generally used in the Specifications. The words "shall," "shall be," or "shall comply with," depending on the context, are implied where a colon (:) is used within a sentence or phrase.
2. Specification requirements are to be performed by Contractor unless specifically stated otherwise.
3. Division 01 General Requirements: Requirements of Sections in Division 01 apply to the Work of all Sections in the Specifications.

F. Drawing Coordination: Requirements for materials and products identified on Drawings are described in detail in the Specifications. One or more of the following are used on Drawings to identify materials and products:
1. Terminology: Materials and products are identified by the typical generic terms used in the individual Specifications Sections.
2. Abbreviations: Materials and products are identified by abbreviations published as part of the U.S. National CAD Standard and as scheduled on Drawings.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 10 00

SECTION 01 25 00 - SUBSTITUTION PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY
A. Section includes administrative and procedural requirements for substitutions.
B. Related Requirements:
1. Section 01 33 00 - Submittal Procedures for submittal requirements.
2. Section 01 60 00 - Product Requirements for requirements for submitting comparable product submittals for products by listed manufacturers.
3. Divisions 02 through 32 Sections for specific requirements and limitations for substitutions.
4. Section 09 22 16 – Non Structural Metal Framing for EQ studs.

1.3 DEFINITIONS

A. Substitutions: Changes in products, materials, equipment, and methods of construction from those required by the Contract Documents and proposed by Contractor.
1. Substitutions for Cause: Changes proposed by Contractor that are required due to changed Project conditions, such as unavailability of product, regulatory changes, or unavailability of required warranty terms.
2. Substitutions for Convenience: Changes proposed by Contractor or Owner that are not required in order to meet other Project requirements but may offer advantage to Contractor or Owner.
B. Refer to Section 01 60 00 - Product Requirements for additional definitions.

1.4 ACTION SUBMITTALS

A. Substitution Requests: Submit searchable pdf file with documentation and attachments for each substitution request. Provide 3 copies of samples and, where necessary, 3 copies of range samples per requirements in Section 01 33 00 - Submittal Procedures.
1. Substitution Request Form: Use facsimile of form provided in Project Manual.
2. Documentation: Provide documentation as specified herein with each request.

1.5 QUALITY ASSURANCE

A. Compatibility of Substitutions: Investigate and document compatibility of proposed substitution with related products and materials. Engage a qualified testing agency to perform compatibility tests recommended by manufacturers.

1.6 COORDINATION WITH OTHER WORK

A. Coordination: Revise or adjust affected work as necessary to integrate work of approved substitutions.

PART 2 PRODUCTS

2.1 SUBSTITUTIONS

A. General: Any proposed substitution must maintain the quality standards established by the Contract Documents for the specified product without any detrimental effect to Owner.
1. Substitutions require prior review and acceptance by Architect per process specified herein. Substitutions shall be submitted per procedures specified herein and shall not be submitted as part of a submittal.
a. Substitutions submitted as a submittal prior to acceptance shall be rejected and returned to Contractor without action.
2. In instances of dispute as to whether any substitution proposed by Contractor is acceptable, the judgment of Architect shall govern. The burden of proof rests solely with Contractor to show compliance and acceptability of proposed substitutions.
a. Submit complete documentation for substitution as specified herein. Incomplete substitution requests will be returned to Contractor without action.
3. If substitution is accepted by Architect, Contractor shall submit required submittals for that portion of the Work per submittal procedures in Section 01 33 00 - Submittal Procedures.
4. Contractor shall address impact on Submittal Schedule and Contractor's Construction Schedule and shall accept schedule changes without change in time or cost to Owner.
5. Acceptable substitutions shall comply with all requirements in the Contract Documents including those within individual specification sections and in Section 01 60 00 - Product Requirements except where deviations have been accepted in writing by Architect. Deviations not pointed out by Contractor are not accepted.

B. Substitutions for Cause: Submit requests for substitution immediately on discovery of need for change, but not later than 15 days prior to time required for preparation and review of related submittals.
1. Conditions: Architect will consider Contractor's request for substitution for cause only when the following conditions are satisfied and will return requests without action, except to record noncompliance if the following conditions are not satisfied.
a. Requested substitution offers Owner a substantial advantage in cost, time, energy conservation, or other considerations, after deducting additional responsibilities Owner must assume. Owner's additional responsibilities may include compensation to Architect for redesign and evaluation services, increased cost of other construction by Owner, and similar considerations.
b. Requested substitution does not require revisions to the Contract Documents that are extensive, change design intent or are unacceptable to Architect.
c. Requested substitution is consistent with the Contract Documents and will produce indicated results.
d. Substitution request is fully documented and properly submitted.
e. Requested substitution will not unnecessarily adversely affect Contractor's Construction Schedule.
f. Requested substitution has received necessary approvals of authorities having jurisdiction.
g. Requested substitution is compatible with other portions of the Work.
h. Requested substitution has been coordinated with other portions of the Work.
i. Requested substitution provides specified warranty.
j. If requested substitution involves other work, requested substitution has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to providers of other work.

C. Substitutions for Convenience: Not allowed.

D. Change in Project Condition as Justification for Request - Extenuating circumstances as follows:
1. Product is no longer manufactured.
2. Product is not available due to a strike, lockout or bankruptcy.
3. Product is not available due to an Act of God.
4. Specified product is identified as incompatible or inappropriate for Project.
5. Specified item fails to comply with building code requirements.
6. Manufacturer or fabricator declares a specified product to be unsuitable for use intended and refuses to warrant its installation.
7. Requested substitution will provide Owner with a cost savings without affecting desired effect of specified product.

2.2 SUBSTITUTION REQUEST PROCEDURES

A. Substitution Request Procedures: If substitution request is justified per preceding article, submit each substitution request per the following substitution procedures:
1. Limit each request to one proposed substitution.
2. Substitution Request Form: Use Form attached at end of section. Complete all lines. If a line is not applicable, indicate "N/A." Identify product to be replaced and product to be substituted. Include Specification Section number, title and paragraph and Drawing numbers and titles.
3. Documentation: Show compliance with requirements for substitutions and the following, as applicable:
a. Statement indicating why specified material or product cannot be provided.
b. Coordination information including a list of changes or modifications needed to other parts of the Work and to construction performed by Owner and separate contractors that will be necessary to accommodate proposed substitution.
c. Detailed comparison of significant qualities of proposed substitution with those of product specified. Include annotated copy of applicable Specification Section addressing each item in section in left hand margin stating whether proposed substitution complies with requirement or deviates. Specifically indicate deviations and impact on Work.
1) Significant qualities may include attributes such as performance, weight, deflection, tolerances, size, durability, visual effect, warranties, and specific features and requirements indicated.
d. Product Data, including drawings and descriptions of products and fabrication and installation procedures.
e. Samples showing full range of colors including submission for specific finish to match Architect's control sample or selected product.
1) Where color or finish does not match Architect's control sample or selected product, provide custom color or finish.
2) When, due to the nature of the material, the material is available in a range of colors, i.e., natural stone, brick, and tile, Contractor shall submit the full available range of colors for that material for Architect's review.
3) When material is available with varying characteristics, Contractor shall submit a range sample depicting the applicable range proposed for this project as specified in Section 01 33 00 - Submittal Procedures.
4) Provide photographs of quarried materials showing proposed selection.
f. Certificates and qualification data, where applicable or requested.
g. List of similar installations for completed projects with project names and addresses and names and addresses of Architect and Owner.
h. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
i. Research/evaluation reports from model code organization acceptable to authorities having jurisdiction showing compliance with building code in effect for Project.
j. Detailed comparison of Contractor's Construction Schedule using proposed substitution with products specified for the Work, including effect on overall Contract Time. If specified product or method of construction cannot be provided within Contract Time, include letter from manufacturer, on manufacturer's letterhead, stating lack of availability or delays in delivery.
k. Cost information, including proposal of change, if any, to Contract Sum.
l. Contractor's certification that proposed substitution complies with requirements in the Contract Documents except as indicated in substitution request, is compatible with related materials, and is appropriate for applications indicated.
m. Contractor's waiver of rights to additional payment or time that may subsequently become necessary because of failure of proposed substitution to produce indicated results.
n. Other information as necessary to assist evaluation.

B. Architect Review:
1. Architect will review Contractor's written request for substitution when the conditions noted previously under "Substitution for Cause" are satisfied.
2. If those conditions are not satisfied, Architect will return request to Contractor, without recommendation to Owner, except to record noncompliance with those requirements:
3. If necessary, Architect will request additional documentation for evaluation within 5 days of receipt of a substitution request.

C. Architect will notify Contractor of acceptance or rejection of proposed substitution within 10 days of receipt of request, or 5 days of receipt of additional documentation, whichever is later. Use product specified if Architect does not issue a decision on use of a proposed substitution within time allocated.

D. Contractor shall issue a Proposed Change Order documenting acceptance of substitution.

E. Contractor may proceed with using substitution in lieu of the product specified if Architect does not issue a decision on use of a proposed substitution within time allocated. Contractor shall proceed with submitting Shop Drawings, Samples and Product Data for the proposed product for review by Architect.

F. Submission of a Shop Drawing, Sample or Product Data indicating proposed variance from Contract Documents is not a proper submission and does not constitute a Substitution Request. Approval of a Shop Drawing, Sample or Product Data indicating a proposed variance from the Contract Documents does not constitute approval of a Substitution.

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 25 00

SECTION 01 31 00 - PROJECT MANAGEMENT AND COORDINATION

PART 1 GENERAL

1.1 SUMMARY

A. Section includes administrative provisions for coordinating construction operations on Project including, but not limited to, the following:
1. Administrative and supervisory personnel.
2. Digital project management.
3. Documentation from Architect
4. Project coordination.
5. Requests for Information (RFIs).
6. Project meetings.
7. Project tracking.
8. Project reports.

1.2 INFORMATIONAL SUBMITTALS

A. Subcontract List: Provide a directory identifying individuals or firms proposed for each portion of the Work, including those who are to furnish products or equipment fabricated to a special design. Use CSI Form 1.5A. Include the following information:
1. Name, address, and telephone number of subcontractor and suppliers.
2. Number and title of related Specification Section(s) covered by subcontract.
3. Drawing number and detail references, as appropriate, covered by subcontract.

B. Key Personnel Names: Within 10 working days of starting construction operations, submit a list of key personnel assignments, including superintendent and personnel in attendance at site. Identify individuals and their duties and responsibilities; list addresses and home, office, and cell phone numbers and e-mail addresses. Provide same information for individuals assigned as alternates assigned to Project.
1. Post copies of list in project meeting room and in temporary field office. Maintain copy on DPM as defined in this Section. Keep list current at all times.

1.3 ADMINISTRATIVE AND SUPERVISORY PERSONNEL

A. Provide administrative and supervisory personnel as required for proper performance of the Work including a project manager and project superintendent with experience in the administration and supervision of construction similar to this Project. Contractor's project staff shall be experienced in the following as a minimum:
1. Scheduling and sequencing of Work.
2. Coordination of the Work.
3. Temporary services and facilities.
4. Submittal review.
5. Selections for compatibility
6. Installation of the Work.
7. Protection of the Work
8. Cutting and patching.
9. Inspection and tests.

1.4 DIGITAL PROJECT MANAGEMENT

A. Digital Project Management (DPM): Provide, administer and use an Internet-based Project Management site acceptable to Owner and Architect for hosting, managing and archiving of Project communication and documentation until Final Completion. Contractor shall include cost of DPM in Contract Sum.
1. As a minimum, use DPM for the following Project procedures:
a. Project Directory: Compilation of Project personnel, including companies, names and contact information for Contractor, Owner, Architect, Consultants, subcontractors and other entities involved in Project.
b. Project Communications including creation, logging, tracking, and notification for RFIs, Submittals, Proposed Change Orders, and final Change Orders.
c. Creation and distribution of agendas and meeting minutes.
d. Distribution of Project Documentation including Contractor's Construction Schedules, Schedule of Values, Submittal Schedule and draft Applications for Payment.
e. Contract Document Management: Maintain locked pdf of issued documents including Drawings, Specifications, Modifications and Architectural Supplemental Instructions (ASIs).
f. Punch list items and status.
2. DPM shall allow for the following:
a. Access control for each entity to limit entity's digital rights to create, modify, view, and print documents.
b. Tracking of status of each Project Communication in real time, including log time and date when information is transmitted to DPM.
c. Notifying addressees via email that documents are available on DPM.
d. Securing items on DPM from changes once submitted to DPM.
3. DPM Users: Contractor and Architect are required to use DPM service. Subcontractors, suppliers, and Architect's consultants shall be permitted to use DPM service at no extra charge.
a. Users of DPM service are required to have an email address, Internet access, and PDF review software able to mark up and apply electronic stamps to documents (such as Adobe Acrobat, HYPERLINK "http://www.adobe.com/"www.adobe.com, or Bluebeam PDF Revu, www.bluebeam.com), unless this capability is provided by DPM service.
b. Provide 7 user licenses for use of Owner, Architect, and Owner's and Architect's consultants.
c. Provide 8 hours of training on DPM at Architect's office for Owner and Architect.

B. Provide Project required submittals and documentation to Owner and Architect in electronic, searchable pdf utilizing DPM.
1. Upload, transmit, log and store Project submittals and documentation on DPM in separate directories.
2. Notify Owner, Architect and other concerned parties via email using DPM capabilities when submittals and documentation has been uploaded.
3. Maintain submittals and documentation on DPM. Do not delete or modify documentation at any time. Name new documents by type of document and date of issuance so each has a separate unique title. Do not archive documentation until end of Project after transferring copy to Owner and Architect.
4. Transmit documents used for construction contract administration only through DPM. Do not use email or hard copies. If hard copies are required for meetings or at site, provide pdf of document on DPM.
a. Emailed and hard copies of documents intended to use DPM service will not be reviewed.
1) When hard copies are required, an electronic pdf file shall be posted to DPM in addition to hard copy being transmitted.

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1

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5. At Project Closeout, Architect will determine when to terminate DPM services in conjunction with Contractor and Owner.
6. Prior to terminating DPM, provide Owner and Architect with complete copy of files on DPM, in locked format to prevent further changes, on portable drive.
7. Acceptable DPM Services: One of the following Internet-based Project software packages under their current published licensing agreements:
   a. Autodesk; Buzzsaw or Constructware.
   b. Meridian Systems; Prolog.
   c. Procore Technologies, Inc.
   d. If not listed, one submittal for approval by Owner and architect.
8. Contractor can propose their own standard service provided it meets the requirements herein for the DPM service and is acceptable to Architect and Owner.

C. Digital Project Documentation: Documents transmitted to Architect and Owner shall be in pdf files that are fully searchable. Scanned pdf documents are not acceptable.

1.5 DOCUMENTATION FROM ARCHITECT

A. The Contract Documents in pdf format will be provided to Contractor for the Project. Modifications will be provided in pdf format electronically when issued.
   1. Architect makes no representations as to the accuracy or completeness of pdf files as they relate to the Contract Drawings. Notify Architect of any errors or deficiencies.
   2. Maintain archived unmarked "locked" pdf of Contract Documents on DPM.
   3. When modifications are issued, add modifications and other issued documentation to maintain complete sets of Contract Documents.
   4. Contract Documents in pdf format are not to be used to determine dimensions, construction or existing conditions, or any other purpose then to provide an electronic document record of the Contract Documents.
      a. Do not use pdf files to determine dimensions by scaling. Where dimensioning information is required but not apparent, notify Architect and request additional information.

B. Markup of Contract Document Documentation:
   1. Maintain copy of Contract Documents at Project site complete with all modifications and request for information attached. Slip sheet documents so that all versions of issued documents are maintained with latest version on top.
   2. Utilize separate electronic pdf reference copy of Contract Documents on DPM with original content locked for reference but allowing mark-up electronically at site.

C. Architect will provide digital drawing files for Contractor's use in preparing Shop Drawings and Coordination Drawings.
   1. Prior to Architect transferring files, Contractor shall execute and return to Architect an Electronic File Transmittal Agreement (EFTA), on form available from Architect, signed and dated by responsible person representing Contractor.
   2. Architect will transfer files by method to be determined by Architect.
   3. Prior to Contractor transferring files to others, Contractor shall require entity to which Architect's digital drawing files are conveyed to abide by the terms and conditions of the EFTA, and only to use these files for this Project.
      a. Contractor shall not furnish copies of Architect's digital drawing files to any party that is not directly providing services for this Project.

D. Limitations of Usage of Architect's Files:
   1. Using Architect's digital drawing files does not relieved Contractor of the duty to fully comply with the Contract Documents, including and without limitation:
      a. Coordination of the Work with the Contract Documents, field conditions, and other work required by the Contract Documents.
      b. Preparation, coordination, checking, and detailing of shop drawings and/or other submittals, including measurements, dimensions and quantities of the Work.
   2. When modifying Architect's digital drawings for project-related services, Contractor and/or third party using Architect's digital drawing files shall add its company name, address, telephone number, and contact information to the title block of each sheet, and all references to Architect shall be removed from the digital drawing.
      a. Contractor shall be responsible for removing information not normally provided on Shop Drawings, including Architect's title block and any references to the Contract Documents from Architect's digital drawing files.
         1) Shop Drawings and other type submittals submitted with information associated with other trades or with references to Contract Documents will not be reviewed and will be immediately returned.
      b. Contractor shall make changes to Architect's digital drawing files as necessary to coordinate with the Work, existing conditions, changes in the Contract Documents and as necessary to accurately depict the Work.
   3. Architect makes no representations as to the accuracy or completeness of digital drawing files as they relate to the Contract Drawings.
      a. Contractor shall be solely responsible for verifying the accuracy of all results created with the use of Architect's digital drawing files.
   4. In the event of ambiguity, discrepancy or conflict between information on electronic media and that in Contract Documents, the Contract Documents shall govern.
      a. Contractor is responsible for determining if any conflict exists.
      b. Promptly notify Architect of any discrepancy in digital drawing files.

E. Digital Drawing Files Available from Architect:
   1. Digital drawing files of floor plans and reflected ceiling plans will be provided as dwg files in AutoCAD version to be determined by Architect.
   2. At Contractor's written request, electronic copies of Project Building Information Model (BIM) Digital Data Files will be provided by Architect in Revit version to be determined by Architect.
   3. Architect's digital drawing files will be provided by Architect once during the Project and will not be updated or maintained. Digital drawing files with modifications will not be issued.
   4. At Contractor's written request, digital drawing files for engineering systems will be provided to Contractor for use in connection with this Project, per conditions indicated in Engineering specification sections, including signing required release form by Contractor and other entities provided the files. Engineering digital drawing files will be made available in software to be determined by engineer.

1.6 PROJECT COORDINATION

A. Coordinate construction operations included in the various sections of the Specifications to provide for proper installation, connection, and operation of the Work where portions depend on each other and to provide an efficient and orderly installation of each part of the Work.
   1. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
   2. Coordinate installation of different components to ensure maximum performance and accessibility for required maintenance, service, testing and repair.
   3. Make adequate provisions to accommodate items scheduled for later installation.

B. Prepare memoranda for distribution to parties involved, outlining special procedures required for coordination, including required notices, reports, and list of attendees at meetings.
   1. Prepare similar memoranda for Owner and separate contractors if coordination of their Work is required.

C. Administrative Procedures: Coordinate scheduling and timing of required administrative procedures with other construction activities to avoid conflicts and to ensure orderly progress of the Work. Such administrative activities include, but are not limited to, the following:
   1. Preparation of Contractor's construction schedule.
   2. Preparation of schedule of values.
   3. Installation and removal of temporary facilities and controls.
   4. Delivery and processing of submittals.
   5. Progress meetings.
   6. Preinstallation conferences.
   7. Startup and adjustment of systems.
   8. Project closeout activities.

D. Conservation: Coordinate construction activities to ensure that operations are carried out with consideration given to conservation of energy, water, and materials. Coordinate use of temporary utilities to minimize waste.
   1. Salvage materials and equipment involved in performance of, but not actually incorporated into, the Work. See other Sections for disposition of salvaged materials that are designated as Owner's property.

1.7. COORDINATION OF THE WORK

A. Layout of the Work:
   1. Layout partitions for Architect's review and confirmation at the Project Site. Taking care to include furred walls, additional layers of gypsum board and materials with thickness and support, including wood paneling, stone paneling and stretched fabric wall systems.
   2. Mark locations of devices, including switches, outlets and data devices.
   3. Mark panelized areas to indicate jointing and equal panel sizes to coordinate between the device placement and panel construction.
   4. Mark overhead items including lights and diffusers, access panels and ductwork. Where multiple systems intersect or overlap, provide coordination drawings.
   5. Architect will review and address any issues with dimensions.

B. Coordination drawings:
   1. Contractor shall prepare coordination drawings where careful coordination is needed for installation of Work fabricated by separate entities, or where limited space availability necessitates maximum utilization of space for efficient installation of different components.
      a. Where more than one trade is involved, provide Coordination Drawings that are drawn as a single file with each trade item or assembly on a separate layer.
      b. Provide coordination drawings per requirements in individual Sections and per requirements in Section 01 33 00 - Submittal Procedures.
      c. Refer to Mechanical, Electrical and Plumbing contract documents for specific coordination drawing requirements for mechanical and electrical installations.
         1) Provide coordination drawings for Work in mechanical and electrical rooms and spaces where two or more entities provide the Work and separate shop drawings are insufficient to show coordination.
   2. Content: Project-specific information, drawn accurately to a scale large enough to indicate and resolve conflicts. Do not base coordination drawings on standard printed data. Include the following information, as applicable:
      a. Use Drawings as basis for preparation of coordination drawings. Prepare sections, elevations, and details as needed to describe relationship of various systems and components.
      b. Indicate functional and spatial relationships of components of architectural, structural, civil, mechanical, and electrical systems.
      c. Indicate space requirements for routine maintenance and for anticipated replacement of components during the life of the installation.
      d. Show location and size of access doors required for access to concealed dampers, valves, and other controls.
      e. Indicate required installation sequences.
      f. Indicate dimensions shown on Drawings. Specifically note dimensions that appear to be in conflict with submitted equipment and minimum clearance requirements. Provide alternate sketches to Architect indicating proposed resolution of such conflicts. Minor dimension changes and difficult installations will not be considered changes to the Contract.
   3. Separate layers shall be prepared for the following areas of work.
      a. Ductwork, diffuser locations, mechanical piping, mechanical equipment, plumbing and automatic temperature control.
      b. Sprinkler System.
      c. Electrical, lighting layouts, speaker layout, sound masking system, emergency lighting and exit signs.
      d. Reflected ceiling plans.
   4. Utilize graphic symbols as indicated on Contract Drawings.
   5. Prepare final Coordination Drawings using uniform drawing size, no larger than original Contract Document drawing size.
   6. Key and cross-reference Coordination Drawings to the Contract Drawings.
   7. Detail complex areas of building systems at larger scales than that used for the typical floor plans to provide a clear representation of the work being described.
   8. Submit Coordination Drawings on a composite floor-by-floor or area-by-area basis and include representations of the work of all trades for the particular floor or area being submitted.
   9. Coordination Drawings shall bear the signed approval stamp of each trade and subcontractor to indicate that the final composite drawings accurately represent their work in coordination with other trades.
   10. Processing Time: Refer to Section 01 33 00 - Submittal Procedures.
      a. Relocations of Work installed or modified prior to review of Coordination Drawings, shall be made without additional expense to Owner.
   11. Organize coordination drawings as follows:
      a. Floor Plans and Reflected Ceiling Plans: Show architectural and structural elements, and mechanical, plumbing, fire-protection, fire-alarm, and electrical Work. Show locations of visible ceiling-mounted devices relative to acoustical ceiling grid. Supplement plan drawings with section drawings where required to adequately represent the Work.
      b. Plenum Space: Indicate subframing for support of ceiling and wall systems, mechanical and electrical equipment, and related Work. Locate components within ceiling plenum to accommodate layout of light fixtures indicated on Drawings. Indicate areas of conflict between light fixtures and other components.
      c. Mechanical Rooms: Provide coordination drawings for mechanical rooms showing plans and elevations of mechanical, plumbing, fire-protection, fire-alarm, and electrical equipment.
      d. Structural Penetrations: Indicate penetrations and openings required for all disciplines.
         1) Show openings and sleeve locations required in slabs, walls, beams and other structural elements, including openings necessary but not shown on structural drawings, and deviations in the location of holes shown on structural drawings.
         2) Specifically note or indicate relocated openings and new openings.
      e. Mechanical and Plumbing Work: Show the following:
         1. Sizes and bottom elevations of rectangular ductwork.
         2) Sizes and centerline elevations of round ductwork, piping and conduit runs.
         3) Acoustical lining in ductwork, flange dimensions, reinforcement and insulation for ductwork, as well as flange dimensions and insulation for all pipes and ducts.
         4) Sizes and bottom elevations of ductwork and piping support systems.
         5) Identify low, medium and high-pressure ductwork
         6) Dimensions of major components, such as dampers, valves, diffusers, access doors, cleanouts and electrical distribution equipment.
         7) Orientation of equipment requiring electrical connections and indicate, where required, location of architectural access panels as may be required by code or to facilitate maintenance.
         8) Fire-rated enclosures around ductwork.
         9) Show double lines for ductwork and pipes 6 inches and larger. Ductwork shall be drawn with allowance for sound lining, insulation, connection flanges and reinforcing. Show single lines for electrical work, conduit runs and lines below sizes noted above. Draw busways to scale.
      f. Electrical Work: Show the following:
         1) Vertical and horizontal conduit runs, 1-1/4 inches in diameter and larger.
         2) Light fixture, exit light, emergency battery pack, smoke detector, and other fire- alarm locations.
         3) Panel board, switch board, switchgear, transformer, busway, generator, and motor control center locations.
         4) Location of pull boxes and junction boxes, dimensioned from column center lines.
         5) Dimension the location of all major components from column centerlines and indicate, where required, code required clearances by cross-hatching.
         6) Location of access panels to comply with code, or facilitate maintenance.
      g. Fire-Protection System: Locations of standpipes, mains piping, branch lines, pipe drops, and sprinkler heads.
      h. Architect will review coordination drawings to confirm that the Work is being coordinated, but not for details of the coordination, which are Contractor's responsibility. If Architect determines that coordination drawings are not being prepared in sufficient scope or detail, or are otherwise deficient, Architect will so inform Contractor, who shall make changes as directed and resubmit.

C. Coordination Drawings Submittal:
   1. Provide Coordination Drawings in searchable pdf format at a scale of not less than 1/4"= 1'-0".
   2. Represent each trade by a unique layer and color. Files shall contain a color key.
   3. Submit Coordination Drawings via DPM to Architect per submittal requirements in Section 01 33 00 - Submittal Procedures.
   4. Contractor's Review:
      a. Review Coordination Drawings and check for compliance with the Contract Documents. Note corrections and field dimensions.
         1) Highlight and encircle deviations from the Contract Documents. Note reason for deviation adjacent to each item.
      b. Mark Coordination Drawing submittal with Contractor's approval stamp before submitting to Architect.
         1) Architect will not review submittals that do not bear Contractor's approval stamp and will return them without action.
   5. Architect's Action:
      a. Architect will review Coordination Drawing submittal as an Action Submittal per Section 01 33 00 - Submittal Procedures.
      b. Submittals not required by the Contract Documents will not be reviewed and may be discarded.

D. Record Drawings:
   1. Maintain at project site an orderly file of Coordination Drawings available for reference during regular working hours to Owner, Architect and their representatives.
   2. Keep Coordination Drawings up-to-date with revisions which reflect the actual construction. Owner reserves the right to check that Coordination Drawings have been updated at every Progress Meeting.
   3. Submit Coordination Drawings to Architect for Owner at the completion of all work, corrected by Contractor, if so required, and returned to Architect prior to final payment to Contractor.

1.8 REQUESTS FOR INFORMATION (RFIS)

A. During bidding process or progress of the Work, Contractor may submit a request for interpretation of the Contract Documents, for clarification of a portion of the Contract Documents, to secure additional information regarding the Work due to site or unforeseen conditions, or to address discrepancies.
   1. Submit RFIs in a prompt manner to avoid delays in the Work.

B. Requests for Information (RFI) shall meet the following requirements:
   1. RFIs shall be originated by Contractor.
      a. RFI's from subcontractors or material suppliers shall be submitted through, reviewed by, and signed by Contractor prior to submittal to Architect.
         1) Architect will return RFIs submitted to Architect by other entities controlled by Contractor with no response.
   2. The number of RFIs shall be kept to a minimum by Contractor.
      a. Contractor shall carefully study Contract Documents to assure that requested information is not available therein.
         1) RFI's which request information available in Contract Documents will be deemed either improper or frivolous, and may be returned unanswered when the information is clear in the Contract Documents.
   3. RFIs shall be fully documented by Contractor including references to the Contract Documents with digital photos of plans and site conditions.
   4. RFIs shall clearly state reason for clarification or request including discrepancies and site conditions.
   5. RFIs issued to request clarification of layout shall include the full layout of the Work and Contractor suggested solution using drawings to scale to be submitted with RFI.
      a. RFI's that fail to include a suggested solution will be returned unanswered with a requirement that Contractor submit a complete request.
   6. RFIs shall not be used for purposes as follows:
      a. To request approval of submittals.
      b. To request approval of substitutions.
      c. To request changes which entail additional cost or credit.
      d. To request different methods of performing work than those drawn and specified.

C. Immediately on discovery of the need for additional information or interpretation of the Contract Documents, Contractor shall prepare and submit an RFI per the following:
   1. Content of RFI: Include a detailed, legible description of item needing information or interpretation and the following:
      a. Project name.
      b. Project number.
      c. Date.
      d. Name of Contractor.
      e. Name of Architect.
      f. RFI number, numbered sequentially.
      g. RFI subject.
      h. Specification Section number and title and related paragraphs, as appropriate.
      i. Drawing number and detail references, as appropriate.
      j. Field dimensions and conditions, as appropriate.
      k. Contractor's suggested resolution. If Contractor's suggested resolution impacts Contract Time or Contract Sum, Contractor shall state impact in the RFI.
      l. Contractor's signature.
      m. Attachments: Include sketches, notations, measurements, photos, Product Data, Shop Drawings, Coordination Drawings, and other information necessary to fully describe items needing clarification or interpretation.
         1) Include dimensions, thicknesses, structural grid references, and details of affected materials, assemblies, and attachments on sketches.
         2) Include digital photographs of conditions.
   2. Use software-generated form on DPM with substantially the same content indicated above. Submit RFI as searchable pdf file including attachments.

D. Architect's Action: Architect will review each RFI, determine action required, and respond. Allow 7 working days for Architect's response for each RFI. RFIs received by Architect after 2:00 p.m. will be considered as received the following working day.
   1. The following Contractor-generated RFIs will be returned without action:
      a. Requests for approval of submittals.
      b. Requests for approval of substitutions.
      c. Requests for approval of Contractor's means and methods.
      d. Requests for coordination information already indicated in the Contract Documents.
      e. Requests for adjustments in Contract Time or Contract Sum.
      f. Requests for interpretation of Architect's actions on submittals.
      g. Incomplete RFIs or inaccurately prepared RFIs.
   2. Architect's action may include a request for additional information, in which case Architect's time for response will date from time of receipt of additional information.
   3. Architect's response to RFI may result in a change to Contract Time or Contract Sum, and may be eligible for Contractor to submit a PCO.
      a. If Contractor believes RFI response warrants change in Contract Time or Contract Sum, notify Architect in writing within 10 days of receipt of RFI response.

E. RFI Log: Prepare and maintain a RFI log on DPM. Submit log with agenda for progress meetings. Update and submit at progress meetings. Log to include the following:
   1. Project name.
   2. Name and address of Contractor.
   3. Name and address of Architect.
   4. RFI number including RFIs that were returned without action or withdrawn.
   5. RFI description.
   6. Date the RFI was submitted.
   7. Date Architect's response was received.

F. On receipt of Architect's response, immediately post response on DPM, update RFI log and notify affected parties. Notify Architect within 5 days if Contractor disagrees with response.

1.9 PROJECT CONFERENCES AND MEETINGS

A. Schedule and conduct conferences and meetings at Project site unless otherwise indicated.
   1. Attendees: Inform participants and others involved, and individuals whose presence is required, of date and time of each meeting. Notify Owner and Architect of scheduled meeting dates and times.
   2. Agenda: Prepare meeting agenda. Distribute agenda to invited attendees.
   3. Minutes: Record significant discussions and agreements achieved. Within 3 days of meeting, post proposed meeting minutes to DPM and notify concerned parties, including Owner and Architect.
      a. Minute Action Items:
         1) Number each item in minutes by discernable number.
         2) Note date of meeting when first discussed.
         3) Annotate the party responsible for resolving the item.
         4) Update item at each meeting with progress. Change responsible parties when item passes to new party to resolve.
         5) Maintain minute items on official minutes for minimum one meeting after item is resolved and parties agree to strike item in meeting.
      b. Notification: Inform participants including Owner and Architect 3 days prior to meetings that are not regularly scheduled.

B. Other Meetings: In addition to meetings previously listed, Architect and Owner reserves the right to call additional meetings on topics including demonstration and training, or on any subject Architect or Owner deems necessary to discuss.
H. Project Closeout Conference: Schedule and conduct a project closeout conference, at a time convenient to Owner and Architect, but no later than 90 days prior to scheduled date of Substantial Completion to review requirements and responsibilities related to Project closeout.
   1. Attendees: Authorized representatives of Owner, Architect, and their consultants; Contractor and its superintendent; major subcontractors; suppliers; and other concerned parties. Participants at meeting shall be familiar with Project and authorized to conclude matters relating to the Work.
   2. Agenda: Discuss items of significance that could affect or delay Project closeout, including the following:
      a. Preparation of record documents.
      b. Procedures required prior to inspection for Substantial Completion and for final inspection for acceptance.
      c. Submittal of written warranties.
      d. Requirements for preparing operations and maintenance data.
      e. Requirements for delivery of material samples, attic stock, and spare parts.
      f. Requirements for demonstration and training.
      g. Preparation of Contractor's punch list.
      h. Procedures for processing Applications for Payment at Substantial Completion and for final payment.
      i. Submittal procedures.
      j. Owner's partial occupancy requirements.
      k. Installation of Owner's furniture, fixtures, and equipment.
      l. Responsibility for removing temporary facilities and controls.
   3. Minutes: Entity conducting meeting will record and distribute meeting minutes.

1.10 PROJECT TRACKING

A. Maintain Project Log for the following:
   1. Requests for Information.
   2. Submittals.
   3. Inspections.
   4. Change Orders.

B. Include the following in each as a minimum: Date of Issuance, Date of Return and Status.
C. Attach Logs to Progress Meeting Minutes.

1.11 PROJECT REPORTS

A. Submit to Owner, Architect and Project Manager weekly written progress reports, including the following:
   1. Percentage of work completed by phase and trade.
   2. Statement as to expected completion and occupancy date.
   3. Changes introduced into the work.
   4. General remarks on items that could affect project.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 31 00

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes requirements for the submittal schedule and administrative and procedural requirements for submitting Shop Drawings, Product Data, Samples, and other submittals.

B. Action Submittals: Indicated as such in individual Specification Sections, including written and graphic information and samples that require Architect's responsive action.

C. Informational Submittals: Indicated as such in individual Specification Sections, including written and graphic information that do not require Architect's responsive action, but which may be rejected for not complying with requirements.

D. Coordination Drawings: Drawings prepared per Section 01 31 00 - Project Management and Coordination showing relationship and integration of different construction requiring coordination of fabrication or installation to fit in space provided or function as intended.

E. Field Samples: Full-size physical examples erected on-site to illustrate construction, or finish materials, and to establish standard by which the Work will be judged.

F. Range Samples: Set of multiple samples of materials whether natural or man-made exhibiting the variations in color, finish and other characteristics apparent in the material.

G. Digital Project Management (DPM) per Section 01 31 00 - Project Management and Coordination.

A. MSDS: Material Safety Data Sheets.

1.3 ACTION SUBMITTALS

A. Submittal Schedule: Submit Submittal Schedule with Contractor's Construction Schedule per Section 01 32 00 - Construction Project Documentation as active spreadsheet in Microsoft Excel and as searchable pdf file.
   1. Format: Include the following information in tabular format.
      a. Specification Section number and title.
      b. Submittal Name and Number.
      c. Submittal category: Action, Informational, Closeout, LEED, etc.
      d. Submittal Type: Product Data, Shop Drawing, Sample, Product Certification, etc.
      e. Name of entity responsible including subcontractor, supplier, manufacturer, etc.
      f. Description of the Work covered.
      g. Proposed date for first submittal.
      h. Days for Architect's review.
      i. Proposed date for Architect's approval.
   2. List proposed submittals required in each specification section of the Contract Documents and as necessary to verify compliance with Project requirements such as Range Samples. Include information required under format, for each submittal.
      a. Coordinate submittals so that submittals from each specification section are sent at same time.
         1. When approvals for some submittals are required prior to submitting other submittals, such as Samples for Initial Selection, indicate submittals to be sent later and highlight in Submittal Schedule.
   3. Make submittals of all items required in any specification section at the same time.
   4. Make submittals of related work items in logical groupings to facilitate inter- relation of associated items; i.e. doors, frames, and hardware submittals made at same time.
   5. Indicate proposed dates coordinated with Contractor's Construction Schedule.
      a. Coordinate sequencing of submittals with requirements of the Work and submittals from other specification sections.
      b. Include time required for review (as detailed herein), allowing sufficient time for ordering, manufacturing, fabrication, and delivery when establishing dates.
      c. Indicate dates and days of review for all recipients for each submittal, with sufficient days for sequential review.
      d. Allow time for resubmittals including addressing Architect's comments and for handling and reviewing submittals required by those corrections.
      e. Coordinate Submittal Schedule with list of subcontracts, Schedule of Values, and Contractor's Construction Schedule.
      f. Highlight items that differ from Contract Documents including differences in days allowed for review or packaging of submittals.
      g. Revise Submittal Schedule per Architect's comments until Submittal Schedule is acceptable to Architect and Contractor. Architect will return Submittal Schedule as accepted by Architect, to be considered final Submittal Schedule.
         1) Review proposed revisions to Submittal Schedule at Progress Meetings.
         Revisions shall be acceptable to Architect and Contractor.
            (a) Revisions may result in additional time required for review.
            (b) Updated Submittal Logs shall include acknowledgement of resubmissions and any impact on Construction Schedule.
         2) Architect's review time will not be finalized until Submittal Schedule has been accepted by Architect and Contractor.
      h. Upon acceptance of Submittal Schedule by Architect, provide revised version in pdf format and utilize final Submittal Schedule as basis for Submittal Log.
   6. Submit Submittal Log representing Architect accepted Submittal Schedule prior to submitting submittals to Architect by DPM. Do not make any changes from final Submittal Schedule days and dates.
      a. Submittals sent to Architect prior to final Submittal Schedule and Submittal Log acceptance will be returned without action.
   7. Preliminary Submittal Schedule: Preliminary Submittal Schedule is acceptable when schedule is complex or long lead items need approval prior to full development of Construction Schedule, notify Architect. Submit Preliminary Submittal Schedule concurrently with start-up construction schedule to cover submittals required in first 60 days of construction. List those submittals required to maintain orderly progress of the Work and those required due to long lead time for manufacture or fabrication.
   8. Updated Submittal Logs: Submit with agenda for Progress Meetings to reflect changes in current status and timing for submittals with additional update at Progress Meeting.
      a. Highlight any revisions to Submittal Log when dates of submittal are delayed.
      b. Indicate resubmissions and pending dates of posting to DPM.
      c. Do not include changes not approved by Architect.

1.4 SUBMITTAL PROCEDURES

A. Utilize Architect's digital drawing files per requirements in Section 01 31 00 - Project Management and Coordination for preparing submittals.

B. Coordination: Coordinate preparation and processing of submittals with performance of construction activities.
   1. Coordinate each submittal with fabrication, purchasing, testing, delivery, other submittals, and related activities that require sequential activity.
   2. Submit all Action and Informational submittal items required for each Specification Section concurrently unless partial submittals for portions of the Work are indicated on approved submittal schedule.
      a. Exception: Where samples for initial selection and samples for verification are both required, submit samples for verification after initial selection has been returned by Architect.
   3. Submit action submittals and informational submittals required by the same Specification Section as separate packages under separate transmittals.
   4. Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination.
      a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

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07/25/24	BID SET
10/31/24	IFC SET

Revisions:

Project No.
24CMGX.0026.000

Contents:
ARCHITECTURAL SPECIFICATIONS

G011

C. Processing Time: Allow time for submittal review, including time for resubmittals, as follows.
Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals. Time for review shall commence on Architect's receipt of submittal. Submittals received after 3 p.m. will be considered as being delivered the following working day.
1. Initial Review: Allow (5) days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination. Delaying submittals to facilitate coordination between submittals shall not constitute a delay of the Work nor shall it be the basis for an extension of time.
2. If intermediate submittal is necessary, process it in same manner as initial submittal.
3. Resubmittal Review: Allow (3) days for review of each resubmittal.
4. Sequential Review: Where sequential review of submittals by Architect's consultants, Owner, or other parties is indicated or where noted in the review of the Submittal Schedule, allow 15 days for initial review of each submittal.
5. Concurrent Consultant Review: Where the Contract Documents indicate that submittals may be transmitted simultaneously to Architect and to Architect's consultants, allow (10) days for review of each submittal. Submittal will be returned to Architect before being returned to Contractor.
a. Direct Transmittal to Consultant: Where Contract Documents indicate that submittals may be transmitted directly to Architect's consultants, provide duplicate copy of transmittal to Architect. Submittal will be returned to Architect before being returned to Contractor.

D. Post Submittals to DPM per agreed upon, final Submittal Schedule. Notify Architect, Owner and concerned parties when submittals are posted to DPM.
1. Do not post submittals to DPM prior to date agreed upon in final Submittal Schedule.
2. Remove items not posted in accordance with final Submittal Schedule.
3. Hold incomplete submittals until all required items in technical sections can be posted at same time.

E. Prepare submittals required by specification to show compliance with Contract Documents.
1. Make submittals in the English language and in the English system of measurement.
2. When specifications require more than one item of submittal, submit required submittals at the same time.
3. Separate submittal into separate submittals to facilitate review and approval of submittals without requiring resubmittal of all items from a specification section.
4. Identify each submittal per identification requirements.
5. Make submittals of related work items in logical groupings to facilitate interrelation and coordination of associated items.
6. Use Architect's numbering and references when referring to materials and items such as doors, hardware and finishes.
7. Mark all items that differ from the Contract Documents.
8. Indicate items that require Architect's review.
9. Furnish copies of final submittals to authorities having jurisdiction as required.
10. Distribute final submittals as necessary for coordination of the Work.

F. Transmit submittals electronically where possible. Identify and incorporate information in each electronic submittal file as follows:
1. Assemble complete submittal package into a single indexed file with links enabling navigation to each item.
2. Provide means for insertion to permanently record Contractor's review and approval markings and action taken by Architect.
3. Provide PDF files that are fully searchable and to scale for all original documentation created for this Project, such as Shop Drawings.
4. Scanned Copies: Legible scanned PDF files of printed paper originals are acceptable for Product Data, if published PDF file is not available. Scanned submittals that are not legible will be rejected.
5. Sheet Orientation: Orient PDF sheets to a "Ready-to-Read" orientation with majority of text horizontal to the sheet with no additional adjustments or formatting required by the viewer.
6. File Security: Do not set any permissions on the file. Protected documents will not be accepted.
7. Metadata: Include the following information in the electronic submittal file metadata:
a. Title: Project title
b. Author: Contractor's name.
c. Subject: Submittal type (product data, shop drawing, report, etc.)
d. Keywords: Number and title of appropriate Specification Section; manufacturer name; product name/model number.
8. File Size: Limit file size of each submittal as follows. Break larger PDF files into multiple packages where necessary to meet delivery restrictions. Identify split packages as "1 of #" and "2 of #" in the subject line.
a. Email Delivery: 10 Megabytes.
b. FTP Delivery: 100 Megabytes.

G. Maintain Submittal Log on DPM in agreed upon format, with the following information included for each submittal as a minimum:
1. Submittal number using specification section number where item is specified.
2. Subcontractor, Supplier and Manufacturer names.
3. Category of submittal as defined in this Section.
4. Number of days for review.
5. Dates, including time:
a. Date for required submission to Architect from final Submittal Schedule.
b. Date of actual submission to Architect.
c. Date of return to Contractor.
6. Action on Architect's Stamp on returned submittal.
7. Highlight or otherwise indicate submittals requiring resubmission.

H. Submittal Documentation:
1. Provide a coversheet with the following on each submittal. Bind coversheet to electronic submittal.
a. Project name and Architect's Project Number.
b. Date of submission to Architect. Other dates regarding drawing completion date or transmission between entities can be included.
c. Name and address of Architect.
d. Name and address of Contractor.
e. Name and address of subcontractor, supplier, and manufacturer as applicable.
f. Name and address of entity that prepared submittal.
g. Submittal Number: Number with specification section number followed by decimal point and a sequential number (e.g., 061000.01). Add alphabetic suffix after another decimal point (e.g., 061000.01.A) for resubmittals.
h. Drawing number and detail references, as appropriate.
i. Location(s) where product is to be installed, as appropriate.
j. Other necessary identification.
k. Category of Submittal: Action or Informational.
l. Indicate on submittal, as appropriate, if submittal is Delegated Design or for LEED.
m. Provide space 6 inches by 8 inches on coversheet for Architect's Stamp.
2. Provide Contractor's Stamp on each submittal with signature of Contractor's responsible party approving submittal and date approved, with statement that submittal complies with requirements of the Contract Documents.
a. Format submittals so documents are 8-1/2 inch by 11 inch, but no larger than 30 inch by 42 inch.
b. Provide electronic submittals with a digital signature of Contractor's responsible party.
Digital signature shall be of type acceptable to Architect and OwnerOwner.
3. List, highlight, encircle, and identify deviations from Contract Documents on submittals, including minor variations and limitations, with reason for deviation.
4. Note options requiring selection by Architect.
5. Indicate compliance with Contract Documents, relationship to other work, and other information as specified, including:
a. Identification of product or materials
b. Field dimensions, clearly identified as such
c. Mark submittals for pertinent information to this Project.
1) Where printed materials describe more than one product or model, clearly identify which is submitted for review.
(a) Architect will return submittal REJECTED if submittal has multiple products without identification by Contractor to complete proper checking of submittal.
6. Comply with other requirements in specifications.
7. Provide revised submittals per specified requirements in this Section.

1.5 RESUBMISSION REQUIREMENTS

A. Resubmit submittals stamped REVISE AND RESUBMIT AS NOTED, or REJECTED.
1. Do not resubmit submittals that are not required by Architect to be resubmitted.
2. Make resubmittals in same form as previous submittal. Note date and bubble content changed from any previous submittal.

B. Resubmittal procedure shall follow the same procedures as the initial submittal.
1. Review time for resubmissions to be the same as planned for initial submissions.
2. Resubmission to contain same information as first submission except that submission numbers to be adjusted per identification requirements.

3. Highlight items that are changed from previous submission.
a. Architect's review is restricted to review of revisions to previous submittal.
b. Architect will return resubmissions REJECTED that include new or revised information or drawings that are not clearly marked.
c. If resubmittal must include new information or changes other than those requested by Architect, include reason and location of such changes.

PART 2 PRODUCTS

2.1 ACTION SUBMITTALS

A. General: Prepare and submit Action Submittals required by other specification sections.
1. Make any corrections required by Architect's comments.
2. Resubmit corrected Action Submittals until Action Submittals are stamped CONFORMS WITH DESIGN CONCEPT or CONFORMS WITH DESIGN CONCEPT AS NOTED. Final Architect approved submittals must bear one of these stamps.
a. Notify Architect in writing if comments cannot be met or if additional revisions other than those requested are required. Resubmit these modified submittals even if resubmittal is not required by Architect's Stamp.

B. Action Submittals include, the following as well as other noted submittals in other specification sections:
1. Comparable Product Request.
2. Product Data.
3. Shop Drawings.
4. Samples.

C. Comparable Product Request: Comply with Section 01 60 00 - Product Requirements. Provide Comparable product requests with submittal detailing compliance with specification requirements, showing how product is comparable to Basis of Design product or is "equal" to the stated product when specified as "approved equal."

D. Product Data:
1. Provide manufacturer's printed information indicating compliance with requirements, including recognized trade association and testing agency standards, tolerances in construction or materials, dimensions and clearances of operation and maintenance. Include data sheets, catalogue cut sheets, assembly documentation, and other data as required to show compliance.
a. Submit Product Data indicating tolerances, options and construction information affecting performance or appearance in the final installation and information from standards when standards are cited in specification section.
1. Clearly identify where submitted item is not compliant or cannot meet tolerances, including joint sizes. Note deviation from compliance in Product Data and include same information on Shop Drawings.
b. If submittal must be specially prepared because standard published data is not suitable for use, submit as Shop Drawing, not as Product Data.
c. The following are not acceptable Product Data and will be returned REJECTED:
1. Citing catalog numbers without providing catalogue cut sheets.
2) Unedited or partially edited standard manufacturer's 3 part specification.

2. For equipment, include the following, as applicable:
a. Wiring diagrams showing factory-installed wiring.
b. Printed performance curves.
c. Operational range diagrams.
d. Clearances required to other construction.

3. Mark submittal to indicate products and options as applicable. Clearly identify selections meeting Contract Document requirements by highlighting items.
a. Cross out information which is not applicable to the Project.
b. Supplement standard information to provide information applicable to the Work.
c. Show dimensions and clearances required.
d. Show performance characteristics and capacities.

E. Shop Drawings: Submit Project-specific drawings, diagrams, schedules, and other data specially prepared for the work.
1. Fully illustrate requirements of Contract Documents, include the following:
a. Identification of products and thicknesses.
b. Assembly of components, including fabrication and installation requirements.
c. Joint locations and sizes, identifying joint variances expected in installed work.
d. Corner conditions and treatments.
e. Transitions between materials.
f. Direction of materials exhibiting graining or texture.
g. Supports and attachments.
h. Coordination with adjacent work, including field conditions and new work.
i. Coordination with Work supplied by other trades for inclusion in the work in the Shop Drawing, such as, hardware at doors, frames and architectural woodwork.
j. Dimensions established for the work and adjacent construction.
k. Dimensions established by field measurement or that require field verification.
l. Coordination as required for proper and complete installation of the Work.
2. Provide plans, elevations and details at sufficient scale to show materials, dimensions, thicknesses, assembly, attachments, adjoining work, and other pertinent information.
a. Minimum Scale: 1/4"=1'-0" for plans and elevations; 1-1/2"=1'-0" for details, unless otherwise required by specification section. Provide plans, elevations and details at larger scale when required by specification section or necessary to show relationships and assembly.
b. Provide Shop Drawings that are legible and drawn accurately to scale. Freehand drawings are not acceptable.
c. Graphics shall be original, drawn for this Project and not a reproduction of the Contract Documents or standard printed data.
1. Use Architect's digital drawing files only for background scope of new and existing construction modified as necessary to represent the Work.
a. Identify details by reference to sheet and detail number on Contract Drawings.
e. Use product and finish identifications indicated in the Contract Documents.
3. Coordinate with submittals of other work for proper relationships, installation, component and assembly dimensions and characteristics.
4. Indicate material tolerances allowed by standards or manufacturer.
5. Provide the following as Shop Drawings when required by specification sections.
a. Setting diagrams.
b. Schedules.
c. Patterns.
d. Templates.
e. Seaming diagrams.
f. Wiring diagrams.
g. Controls.
h. Signage.
6. Provide Coordinated Shop Drawings that include work of more than one trade, showing adjacent Work in a complete manner, for the following:
a. Doors, frames, and hardware.
b. Samples of interior finish materials.
c. Restoration work including integration with new work.
d. Sprinkler, mechanical, plumbing, and piping.
e. Lighting and HVAC.
f. Decorative metal, architectural woodwork and metal fabrications.
g. Architectural woodwork doors and door hardware.
h. Decorative metal railings, stairs, and finish components of stairs.
7. Indicate deviations from Contract Documents or where final appearance may vary in dimension or relationship.

F. Samples: Physical samples which illustrate materials, finishes, and workmanship, and establish visual standards by which the Work shall be judged. Samples include partial sections of manufactured or fabricated components, cuts or containers of materials, color range sets, and materials showing color, texture, and pattern. Samples will be reviewed for color and appearance only. Compliance with all other requirements shall be the exclusive responsibility of Contractor.
1. Approval of samples will not preclude rejection of completed Work, if completed Work deviates from sample or does not otherwise comply with Contract requirements.
2. Samples shall show anticipated range of color and/or texture. Architect may require additional submissions if the range or consistency is not satisfactory.
a. Architect's determination of Samples and whether installed Work matches Samples in appearance is final.
1) Where a perceivable range is accepted by Architect, materials installed that are abutting or within 6 inches of each other in the final construction shall not vary by more than one-half the accepted range.
2) Final Architect approved Samples will be compared with actual material and finish delivered and installed in the Work.
3. Identification: Unidentified samples will be returned to Contractor without review. Attach label on back side of samples with the following:
a. Submittal Number.
b. Number and title of applicable specification section and paragraph number.
c. Project designation for material/finish from Contract Documents.
d. Generic description of Sample.
e. Product name and name of manufacturer.
f. Sample source.
g. Contact information for manufacturer and manufacturer's representative.
h. Indicate if product is custom and composition/control number.
i. Provide separate coversheet for Samples for Initial Selection with the required identification information.
4. Submit digital photos of front and back of samples with electronic submittal.
5. Submit Range Samples showing differences that occur in natural or man-made materials, even if not specifically required by specification section, to indicate color differences, or characteristics representative of materials to be used in Work.
6. Sequence sample submissions when specification requires unfinished samples or veneers to be approved prior to submitting finish sample.
7. Submit samples of materials which are generally furnished in containers bearing manufacturer's descriptive labels and printed application instructions.
8. Date of submittal of sample is when delivered to Architect, and when posted to DPM.
9. Transmit Samples that contain multiple, related components such as accessories together in one submittal package.
10. Disposition: Maintain approved Samples at site, available for comparisons throughout the course of the Work, to determine final acceptability of construction and finish. Submit Samples to Owner as part of Project Record Documents.
11. Samples for Initial Selection: Where specifically required in other specification sections or where selection is required by Architect, submit manufacturer's full range of available colors and finishes in the form of color charts, chain sets, or small samples showing the full range of colors, textures, and patterns available. When requested, submit Samples for Initial Selection on actual substrates.
a. Number of Samples: Submit 1 full set of available choices where color, pattern, texture, or similar characteristics are required to be selected from manufacturer's product line. Architect will retain submittal. When Contractor desires a Sample for their records, submit 2 full sets.
12. Samples for Verification: Submit minimum of 5 samples of actual material, prepared from same material to be used for the Work. Architect reserves the right to require submission of any materials whether or not specifically indicated in specifications.
a. Submit Samples physically identical with material or product proposed for use:
1) Show full range of color and texture variations expected.
2) Submit from actual production run or natural material to be used for Project, with all applied treatments, cured and finished. Generic samples are not acceptable.
a) When materials will be from multiple production runs or of natural materials, submit Range Sample showing differences expected.
3) Apply paint, coating or other applied finish to actual substrate and not a paper sample. When same finish will be in different gloss levels, provide samples for each gloss level. When finish and gloss will be on different substrates, provide samples for each substrate in each gloss level.
b. Submit samples that are 8"x10", unless otherwise specified:
1) Full size for equipment or device less than 8"x10".
2) 10" in length for linear devices or materials.
3) 1 joint for non-solid materials.
4) 4"x4" for color selection samples.
c. Architect will retain 2 Samples, return 1 to Owner and 2 to Contractor. Samples to be retained at site and shall not be incorporated into the Work. Maintain 1 Sample as Project Record.
13. Range Samples: Submit 5 sets of minimum 5 samples 8"x10" minimum, but not less than required to show size and full range of characteristics expected in actual material to be used for Project. Identify characteristics and their size, quantities and extent expected in the material on back of Range Sample or on separate sheet with submittal identification. Submit electronically photos of front and back of Range Samples. Submit photos of characteristics when extensive.
a. Where size of characteristic varies from those in sample, provide additional samples and photographic documentation showing variability of characteristics, including sizes, quantities, and scope.
b. Provide narrative with Range Sample certifying statements regarding expected color and characteristics expected in material to be used for Project.
c. Range Samples shall show characteristics evident in material.
1) Characteristics not evident in samples are deemed unacceptable.
2) Lack of a Range Sample or lack of clear identification of size, quantity and scope of characteristics in Range Sample for a material does not imply any approval of characteristics not clearly identified and approved.
3) Materials that exhibit characteristics not in final Architect approved Range Samples are not acceptable and will be rejected for replacement at no additional cost to Owner.
14. Fabrication Sample: Submit full-size, fully fabricated Samples identical with the material and arrangement proposed, with edges, corners, and reveals as required in Contract Documents, demonstrating assembly details, workmanship, fabrication techniques, connections, operation, and other similar characteristics. Include stepped finishes and examples of shop and field work where required in specification.
a. Submit a single Fabrication Sample unless otherwise required by specification.
Architect will retain Fabrication Sample.
b. Size Fabrication Sample as indicated in specification, allowing for portability to Project site.
15. Field Samples: Provide where required by specification. Use first installations or mock-ups on site to illustrate finishes, textures and the standard by which the Contract Work will be judged. Provide field samples in sizes prescribed or as required by Architect. Comply with requirements in Section 01 40 00 - Quality Requirements.

2.2 INFORMATIONAL SUBMITTALS

A. General: Prepare and submit Informational Submittals required by other specification sections.
Informational Submittals are submitted for information only. Architect will review and return with or without comments. Architect will return as REJECTED or REVISE AND RESUBMIT if Informational Submittal is not in compliance with Contract Documents.
1. Make any corrections required by Architect's comments.
2. Resubmit corrected Informational Submittal until Informational Submittal is stamped FOR INFORMATION ONLY - NO COMMENTS or FOR INFORMATION ONLY – COMMENTS AS NOTED.
a. Notify Architect in writing to revisions other than the corrections requested even when resubmittal is not required by Architect's Stamp.

B. Informational Submittals include, the following as well as other noted submittals in other specification sections:
1. Coordination drawings or other coordination information.
2. Administrative Submittals from Division 01 Sections.
3. Qualification data.
4. Certifications.
5. Statements.
6. Test reports.
7. Manufacturer's Instructions.
8. Closeout Submittals.
9. Sustainable Design Submittals.
10. Delegated Design Submittals.

C. Coordination Drawing Submittals: Comply with requirements in Section 01 31 00 - Project Management and Coordination.
1. Submit Coordination Drawings in PDF format. If required by Architect, submit Coordination Drawings as active drawing file.
a. Prepare Coordination Drawings of involved trades in a scale of not less than 1/4 inch = 1 foot or larger, as required by Architect.
b. Show sequences and relationships of separate components.
c. Work installed prior to review of Coordination Drawings is at Contractorr's risk.
Subsequent relocations shall be made at no additional cost to Owner.

D. Administrative Submittals: Submittals as required by Division 01 Sections. Comply with requirements in other specification sections. Administrative submittals are considered informational submittals and will be reviewed as such by Architect. Architect will not stamp and return administrative submittals unless Architect has specific comments on the submittals, including requirements for additional information or revisions.

E. Qualification Data: Submit information that demonstrates capabilities and experience of entity, including lists of completed projects with project names and addresses, contact information of architects and owners, and other information specified. Comply with requirements for qualifications in specification and Section 01 40 00 - Quality Requirements.

F. Certifications: Submit notarized Certificate on entity's letterhead certifying compliance with requirements in the Contract Documents, signed and dated by individual authorized to sign documents on behalf of the entity responsible for preparing certification. Provide Certificate types as required from specification. Date must be after date of award of Project.
1. Certifications, General:
a. Provide on each certificate Project name and location, name and address of Contractor, and reference to specification section. List specific requirements that Certificate is intended to address.
b. When a laboratory test reports is submitted with Certificates, include name and address of qualified inspection and testing agency and dates of tests.
c. Contractor shall review Certificates of Compliance before submission to Architect, to ensure that the affidavit is properly worded, dated, and signed.
d. Certification does not relieve Contractor from furnishing satisfactory material. Owner reserves the right to further test installed materials and require removal of material is found not to meet the specific requirements.
2. Installer Certificates: Affidavit by Installer that Installer complies with requirements in the Contract Documents and, where required, is authorized by product manufacturer to install specified product for this specific Project. Include evidence of installation experience where Qualifications are specified in specification section.
3. Manufacturer Certificates: Affidavit by manufacturer that manufacturer complies with requirements in the Contract Documents. Include evidence of manufacturing experience where Qualifications are specified in specification section, and authorization of Installer to install specified product for this specific Project when required by specification section.
4. Product Certificates: Affidavit on manufacturer's letterhead certifying that product complies with requirements in the Contract Documents.
5. Material Certificates: Affidavit on supplier's letterhead certifying that material complies with requirements in the Contract Documents.
6. Welding Certificates: Written certification that welding procedures and personnel comply with requirements in the Contract Documents. Include record of Welding Procedure Specification and Procedure Qualification Record on AWS forms, and names of firms and personnel certified.
7. Statement of Manufacturer's Review: Submit fully executed Statements of Manufacturer's Review on the form bound herein.

D. Test Reports: Comply with requirements in Section 01 40 00 - Quality Requirements and specification sections. Include a statement on an attached coversheet that states compliance with Contract Documents or if compliance is not met.
1. Include test procedures and results carried out by required qualified entity to verify that materials and equipment used in the work comply with the Contract Documents.
a. Testing reports are required to be performed and reported on specifically for Project, unless otherwise indicated. Non-Project specific testing and inspection are indicated in specification, and set limitations on age and other requirements.
b. Only test reports made by qualified agencies operating in the United States, Canada, Japan or United Kingdom for testing not done specifically for this Project.
c. Submit reports written by a qualified entity, on qualified entity's standard form or letterhead, indicating and interpreting test results for compliance with requirements in the Contract Documents.
d. Qualified agency shall be per Section 01 40 00 - Quality Requirements.
2. Material Test Reports: Showing compliance with ASTM or other requirements in the Contract Documents.
3. Product Test Reports: Reports indicating that current product produced by manufacturer complies with requirements in the Contract Documents. Base reports on evaluation of tests performed by manufacturer and witnessed by a qualified testing agency, or on comprehensive tests performed by a qualified testing agency.
4. Research Reports: Report, from a model code organization acceptable to authorities having jurisdiction, that product complies with code in effect for Project. Include:
a. Name of evaluation organization.
b. Date of evaluation.
c. Time period when report is in effect.
d. Product and manufacturers' names.
e. Description of product.
f. Test procedures and results.
g. Limitations of use.
5. Preconstruction Test Reports: Reports indicating and interpreting results of tests performed before installation of product, for compliance with performance requirements in the Contract Documents.
6. Compatibility Test Reports: Reports indicating and interpreting results of compatibility tests performed before installation of product. Include written recommendations for primers and substrate preparation needed for adhesion.
7. Field Test Reports: Reports indicating and interpreting results of field tests performed either during installation of product or after product are installed in its final location, for compliance with requirements in the Contract Documents.
8. Manufacturer's Field Reports: Reports by manufacturer's authorized representative on manufacturer's letterhead indicating testing, inspections and observations of installation and procedures. Include the following, as applicable:
a. Name, address, and telephone number of manufacturer's authorized representative making report.
b. Statement on condition of substrates and their acceptability for installation of product.
c. Statement that products at Project site comply with requirements.
d. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
e. Results of operational and other tests and a statement of whether observed performance complies with requirements.
f. Statement whether conditions, products, and installation will affect warranty.
g. Other required items indicated in specification sections.

E. Manufacturer's Instructions: Submit written or published information that documents manufacturer's recommendations, guidelines, and procedures for installing or operating a product or equipment. Include name of product and name, address, and telephone number of manufacturer. Include the following, as applicable:
1. Preparation of substrates.
2. Required substrate tolerances.
3. Sequence of installation or erection.
4. Required installation tolerances.
5. Required adjustments.
6. Recommendations for cleaning and protection.

F. Closeout Submittals: Prepare and submit Closeout Submittals required by other specification sections. Comply with requirements in other specification sections.

G. Prepare and submit Sustainable Design Submittals per requirements in other specification sections.

H. Delegated Design Submittals: Comply with requirements in Section 01 40 00 - Quality Requirements - Delegated Design Requirements and specification sections. Submit Delegated Design Submittals including Shop Drawings, Design Data, Certifications and Calculations for permanent or temporary construction structural components as required by specification sections.
1. Prepare Delegated Design Submittals with written and graphic information, as required to show compliance with Delegated Design requirements.
2. Delegated Design Submittals shall clearly state:
a. Project.
b. Professional engineer responsible for the design of the system or component.
c. Specification section.
d. Drawing references.
e. Design data, including performance and design criteria, and list of applicable codes and regulations.
f. List of any assumptions.
g. Date completed.
h. Other pertinent information which will allow a complete review.
i. Name and version of software, if any, used for calculations.
j. Page numbers and page totals on each sheet as Page _ of _.
3. Provide calculations including load diagrams if applicable.
4. Submit scanned pdf and 3 paper copies, signed and sealed by the responsible professional engineer, for each product and system, with statement that design complies with performance and design criteria in the Contract Documents.
5. Architect and Engineer will only review calculations, performance and design data which are for permanent parts of the Work.
6. Architect and Engineer will only review for compliance with stipulated design criteria.
a. Architect's and Engineer's review and/or any comments do not constitute any liability for the actual design when delegated by the Contract Documents.
b. Delegated Design Professional Engineer remains responsible for actual design.

PART 3 EXECUTION

3.1 SUBMISSION REQUIREMENTS

A. Submit submittals to Architect for review and approval prior to commencing work requiring submittal. Make revisions and resubmit as required by comments on submittal. Use only final Architect approved submittals stating "proceed without further input from Architect" including required revisions for fabrication and installation of Work. Retain copies at site.
1. Architect will return submittals that are non-compliant as defined herein.
2. No portion of the Work shall commence until all related submittals are reviewed and approved by Architect. Work prior to Architect review is done at Contractor's risk.
3. Work shall conform to approved submittals. Removal of work deviating from approved submittals and its replacement shall be performed at no additional cost to Owner.
4. Submittals shall be complete for each portion of the work.
a. Architect will hold submittals dependent on other submittals until they are available and coordinated and sufficient information is available to permit proper evaluation.

B. Architect will not review submittals that are non-compliant and will return as REJECTED. The following are considered non-compliant submittals:
1. Submittals without all required information, including Contractor's Stamp, Contractor's review comments and clear identification of deviations from the Contract Documents.
2. Submittal with numerous errors, or that appear checked superficially by Contractor.
3. Scanned pdf or image files in lieu of searchable pdf, unless specifically required.
4. Submittal from source other than Contractor.
5. Submittal not required by Contract Documents.
6. Delegated Design submittals that are not signed and sealed.
a. Architect will review unsigned copies as a draft but will not return Delegated Design Submittals without requiring resubmission that are signed and sealed.
7. Incomplete submittals without all required items from same specification section.
a. Partial submittals prepared for a portion of the Work will be reviewed only when partial submittals were accepted by Architect in final Submittal Schedule.
8. Submittals with MSDS: Architect will not review submittal containing MSDS.
a. Architect will return submittal with MSDS as REJECTED.
b. Contractor shall remove MSDS from submittal and resubmit to Architect.
c. Retain MSDS and include in Operations and Maintenance Manuals.
9. Submittals with substitutions not previously approved per Section 01 25 00 - Substitution Procedures.
a. Substitution items will be returned to Contractor requesting submission as substitution.

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Issue Record:

02/14/24	PERMIT SET
07/25/24	BID SET
10/31/24	IFC SET

Revisions:

Project No.
24CMGX.0026.000

Contents:
ARCHITECTURAL SPECIFICATIONS

G012

10. Submittals with disclaimers, ownership statements, or extraneous information.
11. Submittals using reproduction of Contract Documents or that were not created specifically for this Project.
12. Drawings that are not to scale, illegible, non-Project specific, or hand-drawn.
13. Product Data without identification of specific products for Project.
14. Resubmitted submittals without revisions clearly indicated.

3.2 CONTRACTOR'S RESPONSIBILITIES

A. Coordinate preparation and processing of submittals with construction activities, providing submittals sufficiently in advance of the Work to avoid delay. Coordinate submittals with the Contract Documents including:
1. Fabrication, purchasing, testing, delivery, other submittals and related activities.
2. The Work including other work where indicated, verifying fit and applicability with related trades and furnishing items for installation in work of another trade.

B. Submit required submittals per final Submittal Schedule.
1. Submit submittals as separate items to allow approval of a submittal without requiring resubmission for all submittals in a specification section.
2. Coordinate submission of submittals for related parts of the Work to allow concurrent review, coordination and color selection.
a. Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.

C. Make submittals in accordance with final Submittal Schedule and Construction Schedule allowing sufficient time for Architect's review, including time for resubmittals.
1. No extension of Contract Time will be authorized for failure to transmit submittals to allow required processing and review.
a. Contractor shall be responsible for any additional time required for review when submissions vary from final Submittal Schedule in dates or submittal items.
b. Additional time required for reviewing submittals shall in no way relieve Contractor from performing the Work on schedule.

D. Checking and Approving:
1. Contractor shall review submittals to confirm compliance with the Contract Documents; to determine and verify materials, field measurements, and field construction criteria, or will do so; and to check and coordinate information within submittals and with previous and concurrent submittals of related work with requirements of the Work. When submittal is a resubmittal, Contractor shall review revisions to verify compliance with previous comments and that revisions have been identified. Contractor shall note their comments required for revision and identify dimensions that have been or will be field verified.
a. Contractor shall distribute submittals to other parties prior to reviewing and submitting to Architect for input regarding coordination and applicability of components and assemblies.
1) Provide Certifications to Architect as required in specification sections regarding coordination and acceptability of other and adjacent work.
2. Provide with each submittal either on the submittal or on Contractor's coversheet a list of any deviations from the Contract Documents and reason for such deviation.
3. Affix Contractor's Stamp with signature of responsible party for Contractor and date of Contractor's review and approval to each submittal.
a. Contractor's Stamp shall include name of reviewer, date of Contractor's approval, and statement certifying that submittal has been reviewed, checked, and approved for compliance with the Contract Documents.
4. Upon return of submittal to Contractor, review Architect's comments and make corrections or changes indicated. Resubmit when required by Architect's Stamp.
a. Highlight revisions. Annotate drawing revision number and date in title block.
1) Make only revisions required by Architect's review.
2) If additional revisions are made, specifically highlight, noting reason for change.
5. When Contractor considers comments to be a change to the Contract Documents, notify Architect immediately in writing.
a. Architect will provide basis for comments citing Contract Documents or issue a contract modification per Section 01 26 00 - Contract Modification Procedures.
b. Failure to notify Architect implies acceptance of comments as applicable to Contract Documents.

E. Distribute final Architect approved submittals to concerned parties as necessary for performance of construction activities.

F. Maintain submittals as Project Record Documents and transmit to Owner at Project Closeout per requirements in Section 01 26 00 - Contract Modification Procedures.

3.3 ARCHITECT'S RESPONSIBILITIES

A. Architect's review of submittals is conducted for the limited purpose of checking for conformance with information and design intent in the Contract Documents and is not a complete check.
1. Architect's review is not for the purpose of confirming or approving:
a. Deviations from the Contract Documents, including materials, quantities, location, quality, dimension, or orientation.
b. Substitutions.
c. Means, methods, sequences, or techniques of construction.
d. Safety of Contractor's work, workplan, procedures, workers or of the site.
e. Any clarification of information in the Contract Documents.
f. Changes in Contract Cost or Contract Time.
g. Changes not made according to Architect's comments.
1) Items revised on resubmittal shall be highlighted to be considered reviewed by Architect.
h. Dimensions and quantities.
i. Instructions for installation or performance of equipment or systems.
j. An assembly of which an item is a component.
2. Architect's review of samples is only for visual characteristics.
3. Architect's approval of submittals shall not relieve Contractor of responsibility for:
a. Compliance with the Contract Documents unless specifically pointed out to the Architect and Owner per requirements in the General Conditions. Architect's comments on submittals cannot change, nor do they permit any departure from the Contract Documents.
b. Submittal errors or omissions that are not clearly identified.
c. Adequate connections, erection techniques, bracing, or deficiencies in strength.
d. Satisfactory performance of work and coordination with the work of all trades.
e. Proper fitting of the work as performed.
f. Confirming and correlating quantities and dimensions.
g. Selecting fabrication processes and techniques of construction.
h. Coordination of the Work including translating comments to parts and pieces on Shop Drawings, field dimensions and existing conditions.
i. Performing the work in a safe and satisfactory manner.
j. Compliance with the construction schedule.
4. Architect will return submittals with reasonable promptness while allowing sufficient time in Architect's professional judgment to permit adequate review.

B. Action Submittals: Architect will review and indicate revisions required, stamp with Architect's Stamp with mark to indicate further action, and return to Contractor.
1. Items on stamp are as follows:
a. NO EXCEPTIONS TAKEN: Proceed without further input from Architect.
b. PROVIDE AS NOTED: Proceed without further input from Architect provided that comments are incorporated in the Work. If comments can't be complied with, make revisions and resubmit to Architect.
c. REVISE AND RESUBMIT: Submittal does not comply with Contract Documents' design intent. Additional review by Architect required.
1) Do not use, or allow others to use, on Project.
2) Revise per comments and highlight revisions. Resubmit without delay.
d. REJECTED: Submittal does not comply with Contract Documents' design intent. Additional review by Architect required.
1) Do not use, or allow others to use, on Project.
2) Revise to comply with Contract Documents'. Resubmit without delay.
e. NO ACTION: Submittal not reviewed by Architect.

C. Informational Submittals: Architect will review and indicate revisions required, stamp with Architect's Stamp marked to indicate any further action, and return to Contractor.
1. Items on stamp are as follows: FOR INFORMATION.
2. When comments are noted on submittal, address comments and incorporate into the Work.
3. Resubmit Informational Submittal when comment requires resubmission.

END OF SECTION 01 33 00

SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for quality assurance, quality control and testing and inspection services to be performed.
1. Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
a. Specific quality-assurance and -control requirements for individual construction activities are specified in the Sections that specify those activities. Requirements in those Sections may also cover production of standard products.
b. Specified tests, inspections, and related actions do not limit Contractor's other quality- assurance and -control procedures that facilitate compliance with the Contract Document requirements.
c. Requirements for Contractor to provide quality-assurance and -control services required by Architect, Owner, or authorities having jurisdiction are not limited by provisions of this Section.
d. Specific test and inspection requirements are not specified in this Section.

1.3 DEFINITIONS

A. Quality-Assurance Services: Activities, actions, and procedures performed before and during execution of the Work to guard against defects and deficiencies and substantiate that proposed construction will comply with requirements.
B. Quality-Control Services: Tests, inspections, procedures, and related actions during and after execution of the Work to evaluate that actual products incorporated into the Work and completed construction comply with requirements. Services do not include contract enforcement activities performed by Architect.
C. Preconstruction Testing: Tests and inspections performed specifically for Project before products and materials are incorporated into the Work, to verify performance or compliance with specified criteria.
D. Product Testing: Tests and inspections that are performed by an NRTL, an NVLAP, or a testing agency qualified to conduct product testing and acceptable to authorities having jurisdiction, to establish product performance and compliance with specified requirements.
E. Source Quality-Control Testing: Tests and inspections that are performed at the source, e.g., plant, mill, factory, or shop.
F. Field Quality-Control Testing: Tests and inspections that are performed on-site for installation of the Work and for completed Work.
G. Testing Agency: An entity engaged to perform specific tests, inspections, or both. Testing laboratory shall mean the same as testing agency.
H. Installer/Applicator/Erector: Contractor or another entity engaged by Contractor as an employee, Subcontractor, or Sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.
1. Use of trade-specific terminology in referring to a trade or entity does not require that certain construction activities be performed by accredited or unionized individuals, or that requirements specified apply exclusively to specific trade(s).
I. Experienced: When used with an entity or individual, "experienced" means having successfully completed a minimum of 5 previous projects similar in nature, size, and extent to this Project; being familiar with special requirements indicated; and having complied with requirements of authorities having jurisdiction.

1.4 CONFLICTING REQUIREMENTS

A. Referenced Standards: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer conflicting requirements that are different, but apparently equal, to Architect for a decision before proceeding.

B. Minimum Quality Levels: The quality level indicated or specified shall be the minimum level to be provided or performed. The actual installation may comply exactly with the minimum quality specified, or it may exceed the minimum within reasonable limits. To comply with these requirements, indicated numeric values are minimum or maximum, as appropriate, for the context of requirements. Refer uncertainties to Architect for a decision before proceeding.

C. Comply completely with manufacturer's instructions. Should manufacturer's instructions conflict with Contract Documents, request clarification from Architect.

1.5 DELEGATED DESIGN

A. Performance and Design Criteria: Where professional design services or certifications by a design professional are specifically required of Contractor by the Contract Documents, provide products and systems complying with specific performance and design criteria indicated. If criteria indicated are not sufficient to perform services or certification required, submit a written request for additional information to Architect.

1.6 INFORMATIONAL SUBMITTALS

A. Contractor's Quality-Control Plan: For quality-assurance and quality-control activities and responsibilities.

B. Qualification Data: For Contractor's quality-control personnel.

C. Contractor's Statement of Responsibility: When required by authorities having jurisdiction, submit copy of written statement of responsibility sent to authorities having jurisdiction before starting work on systems indicated and where required by AHJ.

D. Testing Agency Qualifications: For testing agencies specified in "Quality Assurance" Article to demonstrate their capabilities and experience. Include proof of qualifications in the form of a recent report on the inspection of the testing agency by a recognized authority.

E. Schedule of Tests and Inspections: Prepare in tabular form and include the following:
1. Specification Section number and title.
2. Entity responsible for performing tests and inspections.
3. Description of test and inspection.
4. Identification of applicable standards.
5. Identification of test and inspection methods.
6. Number of tests and inspections required.
7. Time schedule or time span for tests and inspections.
8. Requirements for obtaining samples.
9. Unique characteristics of each quality-control service.

F. Reports: Prepare and submit certified written reports as required herein.

G. Quality Control Testing and Inspection Agencies shall submit testing and inspection reports, including Agencies' analysis of results and recommendations, immediately following completion of the test or inspection.
1. Each report shall include complete detailed information pertaining to the test or inspection, including information required in each related technical specification section.
2. Reports shall bear the name of qualified individual performing the inspection or test.
3. Distribution: Submit copies of reports directly to the following:
a. Architect:.
b. Structural Engineer.
c. Owner.
d. Contractor.
e. Inspectors.

H. Delegated-Design Submittal: Submit Shop Drawings, Calculations, and other required submittals per specification section. In addition, submit a statement, signed and sealed by responsible design professional, for each product and system specifically assigned to Contractor to be designed or certified by a design professional, indicating that products and systems are in compliance with performance and design criteria indicated. Include list of Codes, loads, and other factors used in performing these services.

1.7 REPORTS AND DOCUMENTS

A. Test and Inspection Reports: Prepare and submit certified written reports specified in other Sections. Include the following:
1. Date of issue.
2. Project title and number.
3. Name, address, and telephone number of testing agency.
4. Dates and locations of samples and tests or inspections.
5. Names of individuals making tests and inspections.
6. Description of the Work and test and inspection method.
7. Identification of product and Specification Section.
8. Complete test or inspection data.
9. Test and inspection results and an interpretation of test results.
10. Record of temperature and weather conditions at time of sample taking and testing and inspecting.
11. Comments or professional opinion on whether tested or inspected Work complies with the Contract Document requirements.
12. Name and signature of laboratory inspector.
13. Recommendations on retesting and reinspecting.

B. Manufacturer's Technical Representative's Field Reports: Prepare written information documenting manufacturer's technical representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of technical representative making report.
2. Statement on condition of substrates and their acceptability for installation of product.
3. Statement that products at Project site comply with requirements.
4. Summary of installation procedures being followed, whether they comply with requirements and, if not, what corrective action was taken.
5. Results of operational and other tests and a statement of whether observed performance complies with requirements.
6. Statement whether conditions, products, and installation will affect warranty.
7. Other required items indicated in individual Specification Sections.

C. Factory-Authorized Service Representative's Reports: Prepare written information documenting manufacturer's factory-authorized service representative's tests and inspections specified in other Sections. Include the following:
1. Name, address, and telephone number of factory-authorized service representative making report.
2. Statement that equipment complies with requirements.
3. Results of operational and other tests and a statement of whether observed performance complies with requirements.
4. Statement whether conditions, products, and installation will affect warranty.
5. Other required items indicated in individual Specification Sections.

D. Permits, Licenses, and Certificates: For Owner's records, submit copies of permits, licenses, certifications, inspection reports, releases, jurisdictional settlements, notices, receipts for fee payments, judgments, correspondence, records, and similar documents, established for compliance with standards and regulations bearing on performance of the Work.

1.8 CONTRACTOR'S QUALITY-CONTROL PLAN

A. Quality-Control Plan, General: Submit quality-control plan within 10 days of Notice to Proceed, and not less than 5 days prior to preconstruction conference. Submit in format acceptable to Architect. Identify personnel, procedures, controls, instructions, tests, records, and forms to be used to carry out Contractor's quality-assurance and quality-control responsibilities. Coordinate with Contractor's construction schedule.

B. Submittal Procedure: Describe procedures for ensuring compliance with requirements through review and management of submittal process. Indicate qualifications of personnel responsible for submittal review.

C. Testing and Inspection: In quality-control plan, include a comprehensive schedule of Work requiring testing or inspection, including the following:
1. Contractor-performed tests and inspections including subcontractor-performed tests and inspections. Include required tests and inspections and Contractor-elected tests and inspections.
2. Special inspections required by authorities having jurisdiction and indicated on the "Statement of Special Inspections."
3. Owner-performed tests and inspections indicated in the Contract Documents.

D. Continuous Inspection of Workmanship: Describe process for continuous inspection during construction to identify and correct deficiencies in workmanship in addition to testing and inspection specified. Indicate types of corrective actions to be required to bring work into compliance with standards of workmanship established by Contract requirements and approved mockups and first installations.

E. Monitoring and Documentation: Maintain testing and inspection reports including log of approved and rejected results. Include work Architect has indicated as nonconforming or defective. Indicate corrective actions taken to bring nonconforming work into compliance with requirements. Comply with requirements of authorities having jurisdiction.

1.9 QUALITY ASSURANCE

A. General: Qualifications paragraphs in this article establish the minimum qualification levels required; individual Specification Sections specify additional requirements.

B. Manufacturer Qualifications: Firm experienced in manufacturing products or systems similar to those indicated for this Project and with a record of successful in-service performance, as well as sufficient production capacity to produce required units.

C. Fabricator Qualifications: Firm experienced in producing products similar to those indicated for this Project and with a minimum of three years record of successful in-service performance, as well as sufficient production capacity to produce required units. Additional years of experience as indicated in technical sections.

D. Factory-Authorized Service Representative Qualifications: Authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

E. Installer Qualifications: Firm or individual experienced in installing, erecting, or assembling work similar in material, design, and extent to that indicated for this Project, whose work has resulted in construction with a minimum of three years record of successful in-service performance. Additional years of experience as indicated in technical sections.

F. Professional Engineer Qualifications: Professional engineer who is legally qualified to practice in the State and who is experienced in providing engineering services of the kind indicated. Engineering services are defined as those performed for installations of the system, assembly, or product that are similar in material, design, and extent to those indicated for this Project.

G. Specialists: Certain Specification Sections require that specific construction activities shall be performed by entities who are recognized experts in those operations. Specialists shall satisfy qualification requirements indicated and shall be engaged for the activities indicated.
1. Requirements of authorities having jurisdiction shall supersede requirements for specialists.

H. Testing Agency Qualifications: An NRTL, an NVLAP, or an independent agency with the experience and capability to conduct testing and inspecting indicated, as documented according to ASTM E329; and with additional qualifications specified in individual Sections; and, where required by authorities having jurisdiction, that is acceptable to authorities.
1. NRTL: A nationally recognized testing laboratory according to 29 CFR 1910.7.
2. NVLAP: A testing agency accredited according to NIST's National Voluntary Laboratory Accreditation Program.

I. Manufacturer's Technical Representative Qualifications: Authorized representative of manufacturer who is trained and approved by manufacturer to observe and inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

J. Factory-Authorized Service Representative Qualifications: Authorized representative of manufacturer who is trained and approved by manufacturer to inspect installation of manufacturer's products that are similar in material, design, and extent to those indicated for this Project.

1.10 QUALITY CONTROL

A. Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
1. Owner will furnish Contractor with names, addresses, and telephone numbers of testing agencies engaged and a description of types of testing and inspection they are engaged to perform.
2. Costs for retesting and reinspecting construction that replaces or is necessitated by work that failed to comply with the Contract Documents will be charged to Contractor, and the Contract Sum will be adjusted by Change Order.

B. Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities, whether specified or not, to verify and document that the Work complies with requirements.
1. Unless otherwise indicated, provide quality-control services specified and those required by authorities having jurisdiction. Perform quality-control services required of Contractor by authorities having jurisdiction, whether specified or not, even if no permit is required for that work.
2. Notify testing agencies at least 24 hours in advance of time when Work that requires testing or inspecting will be performed.
3. Where quality-control services are indicated as Contractor's responsibility, submit a certified written report, in duplicate, of each quality-control service.
4. Testing and inspecting requested by Contractor and not required by the Contract Documents are Contractor's responsibility.
5. Submit additional copies of each written report directly to authorities having jurisdiction, when they so direct.

C. Manufacturer's Field Services: Where indicated, engage a factory-authorized service representative to inspect field-assembled components and equipment installation, including service connections. Report results in writing as specified in Section 01 33 00 - Submittal Procedures.

D. Manufacturer's Technical Services: Where indicated, engage a manufacturer's technical representative to observe and inspect the Work. Manufacturer's technical representative's services include participation in preinstallation conferences, examination of substrates and conditions, verification of materials, observation of Installer activities, inspection of completed portions of the Work, and submittal of written reports.

E. Retesting/Reinspecting: Regardless of whether original tests or inspections were Contractor's responsibility, provide quality-control services, including retesting and reinspecting, for construction that was revised or replaced Work that failed to comply with the Contract Documents. Architect retains the right to require the use of a different testing agency for retesting and reinspecting.

F. Testing Agency Responsibilities: Cooperate with Architect and Contractor in performance of duties. Provide qualified personnel to perform required tests and inspections.
1. Notify Architect and Contractor promptly of irregularities or deficiencies observed in the Work during performance of its services.
2. Determine the location from which test samples will be taken and in which in-situ tests are conducted.
3. Conduct and interpret tests and inspections and state in each report whether tested and inspected work complies with or deviates from requirements.
4. Submit a certified written report, in duplicate, of each test, inspection, and similar quality- control service through Contractor.
5. Do not release, revoke, alter, or increase the Contract Document requirements or approve or accept any portion of the Work.
6. Do not perform any duties of Contractor.
7. Attend Project progress meetings as requested by Architect.

G. Associated Services: Cooperate with agencies performing required tests, inspections, and similar quality-control services, and provide reasonable auxiliary services as requested. Notify agency sufficiently in advance of operations to permit assignment of personnel. Provide the following:
1. Access to the Work.
2. Incidental labor and facilities necessary to facilitate tests and inspections.
3. Adequate quantities of representative samples of materials that require testing and inspecting. Assist agency in obtaining samples.
4. Facilities for storage and field curing of test samples.
5. Delivery of samples to testing agencies.
6. Preliminary design mix proposed for use for material mixes that require control by testing agency.
7. Security and protection for samples and testing and inspecting equipment at Project site.

H. Coordination: Coordinate sequence of activities to accommodate required quality-assurance and -control services with a minimum of delay and to avoid necessity of removing and replacing construction to accommodate testing and inspecting.
1. Schedule times for tests, inspections, obtaining samples, and similar activities.

I. Schedule of Tests and Inspections: Prepare a schedule of tests, inspections, and similar quality-control services required by the Contract Documents as a component of Contractor's quality-control plan. Coordinate and submit concurrently with Contractor's construction schedule. Update as the Work progresses.
1. Distribution: Distribute schedule to Owner, Architect, testing agencies, and each party involved in performance of portions of the Work where tests and inspections are required.

1.11 TESTING AND INSPECTION

A. Owner reserves the right to engage independent Testing and Inspection Agencies to verify the adequacy of Contractor's quality control program. The scope and extent of the Quality Control Testing and Inspection is as specified in the technical specification sections.

B. Quality Control Testing and Inspection services are intended to verify compliance of work performed by Contractor with specified requirements. Quality Control Testing and Inspection services do not relieve Contractor of the responsibility for compliance with, or general fulfillment of, the requirements of the Contract Documents. Specified Quality Control Testing and Inspection are not intended to limit or supplant Contractor's own quality control program.

C. Quality Control Testing and Inspection Agencies engaged by Contractor shall be acceptable to Owner and Architect.

D. Quality Control Testing and Inspection Agencies engaged by Contractor shall be fully independent of Contractor and shall perform all functions and responsibilities as if under contract with Owner.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 TEST AND INSPECTION LOG
A. Test and Inspection Log: Prepare a record of tests and inspections. Include the following:
1. Date test or inspection was conducted.
2. Description of the Work tested or inspected.
3. Date test or inspection results were transmitted to Architect.
4. Identification of testing agency or special inspector conducting test or inspection.

B. Maintain log at Project site. Post changes and revisions as they occur. Provide access to test and inspection log for Architect's reference during normal working hours.

3.2 DEFICIENT WORK

A. General: If any materials or equipment selected for testing fails to meet the requirements of the Contract Documents, such materials or equipment may be subject to removal and replacement.
At the discretion of Owner, the installed defective materials and equipment may be permitted to remain in place subject to a proper adjustment of the Contract Sum.

B. If tests or inspections reveal failure of materials to comply with the requirements of the Contract Documents, the costs of additional tests by Owner, and compensation for Owner's and Architect's additional services, made necessary by such failure, shall be charged to Contractor by Change Order.

3.3 REPAIR AND PROTECTION

A. General: On completion of testing, inspecting, sample taking, and similar services, repair damaged construction and restore substrates and finishes.
1. Provide materials and comply with installation requirements specified in other Specification Sections or matching existing substrates and finishes. Restore patched areas and extend restoration into adjoining areas with durable seams that are as invisible as possible. Comply with the Contract Document requirements for cutting and patching in Section 01 73 00 - Execution.

B. Protect construction exposed by or for quality-control service activities.

C. Repair and protection are Contractor's responsibility, regardless of the assignment of responsibility for quality-control services.

END OF SECTION 01 40 00

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
1. Provide temporary facilities and controls required for construction activities except, if any, for facilities and controls indicated as existing or provided by Owner or others. Provide plan in advance for review and approval by Owner.
B. Related Requirements:
1. Section 01 10 00 Summary for work restrictions and limitations on utility interruptions.
2. Divisions 2 through 32 Sections for environmental (heat, ventilation, and humidity) requirements for products in those Sections.

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Contents:
ARCHITECTURAL SPECIFICATIONS

G013

1.3 DEFINITIONS

A. Permanent Enclosure: As determined by Architect, permanent or temporary roofing is complete, insulated, and weathertight; exterior walls are insulated and weathertight; and all openings are closed with permanent construction or substantial temporary closures.

1.4 USE CHARGES

A. General: Installation and removal of and use charges for temporary facilities shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, Owner, Architect, Owner's consultants, Architect's consultants, testing agencies, and authorities having jurisdiction.
1. Provide for limited use by occupants of Project as necessary for egress and access.
Provide temporary protection as necessary for safe use by occupants of Project.

B. Unless otherwise specified, Contractor shall pay utility service use charges, whether metered or otherwise, for temporary utilities used by all entities engaged in construction activities at the Project site.

C. Water and Sewer Service from Existing System: Water from Owner's existing water system is available for use. Provide connections and extensions of services as required for construction operations.

D. Electric Power Service from Existing System: Electric power from Owner's existing system is available for use. Provide connections and extensions of services as required for construction operations.

1.5 INFORMATIONAL SUBMITTALS

A. Reports: Submit reports of tests, inspections, and similar procedures for temporary utilities.

B. Implementation and Termination Schedule: Within 15 days after the date established for submittal of Contractor's Construction Schedule, submit a schedule indicating implementation and termination of each temporary facility and utility. Once approved, the Implementation and Termination Schedule shall be coordinated with and reflected in Contractor's Construction Schedule.

C. Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.

D. Project Identification Sign: Submit shop drawings for approval showing plan elevation, details and finishes for Project Identification Sign.

E. Temporary Way-Finding Signage: Submit shop drawings for approval showing plan locations, elevations of signage, details and finishes

F. Erosion- and Sedimentation-Control Plan: Show compliance with requirements of EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.

G. Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.

H. Moisture-Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage.
1. Describe delivery, handling, and storage provisions for materials subject to water absorption or water damage.
2. Indicate procedures for discarding water-damaged materials, protocols for mitigating water intrusion into completed Work, and replacing water-damaged Work.
3. Indicate sequencing of work that requires water, such as sprayed fire-resistive materials, plastering, and terrazzo grinding, and describe plans for dealing with water from these operations. Show procedures for verifying that wet construction has dried sufficiently to permit installation of finish materials.

I. Dust- and HVAC-Control Plan: Submit coordination drawing and narrative that indicates the dust- and HVAC-control measures proposed for use, proposed locations, and proposed time frame for their operation. Identify further options if proposed measures are later determined to be inadequate. Include the following:
1. Locations of dust-control partitions at each phase of work.
2. HVAC system isolation schematic drawing.
3. Location of proposed air-filtration system discharge.
4. Waste handling procedures.
5. Other dust-control measures.

1.6 QUALITY ASSURANCE

A. Standards and Regulations: Temporary facilities shall comply with Contract Documents, industry standards and with applicable laws and regulations of authorities having jurisdiction, including but not limited to the following:
1. Building code requirements.
2. Health and Safety regulations.
3. Utility company regulations.
4. Police, fire department and rescue squad rules.
5. Environmental protection regulations.
6. NFPA 241 "Standards for Safeguarding Construction, Alterations and Demolition Operations".
7. ANSI-A10 Series standards for "Safety Requirements for Construction and Demolition".
8. NECA Electrical Design Library "Temporary Electrical Facilities", NFPA 70, and NEMA, NECA and UL standards and regulations for temporary electric service.

B. Tests and Inspections: Arrange for 3rd party inspectors per Section 01 10 00 Summary to test and inspect each temporary utility before use. Obtain required certifications and permits.

C. Accessible Temporary Egress: Comply with applicable provisions in the U.S. Architectural & Transportation Barriers Compliance Board's ADA Accessibility Guidelines and ICC/ANSI A117.1.

1.7 PROJECT CONDITIONS

A. Temporary Use of Permanent Facilities: Engage Installer of each permanent service to assume responsibility for operation, maintenance, and protection of each permanent service during its use as a construction facility before Owner's acceptance, regardless of previously assigned responsibilities.

B. Install, operate, maintain and protect temporary facilities and controls.
1. Keep temporary services and facilities clean and neat in appearance.
2. Operate temporary services in a safe and efficient manner.
3. Relocate temporary services and facilities as needed as Work progresses.
4. Do not overload temporary services and facilities or permit them to interfere with progress.
5. Provide necessary fire prevention measures.
6. Do not allow hazardous, dangerous or unsanitary conditions, or public nuisances to develop or persist on-site.

C. At earliest feasible time, when acceptable to Owner, change over from temporary services to use of permanent services and remove temporary facilities when no longer needed.

D. Temporary Use of Permanent Facilities: Contractor shall assume responsibility for the operation, maintenance and protection of each permanent service during its use as a construction facility prior to Owner's acceptance.
1. Contractor shall obtain prior written Owner's approval before using any permanent facility, system or service not specified on the Contract Documents. Owner's approval of Contractor request for use of permanent facilities, system or services shall be totally at Owner's discretion.

2. Contractor shall be responsible for operation, maintenance, protection and restoration of each permanent facility, system or service during its use as a construction facility before Substantial Completion, regardless of Owner's approval of use. If used by Contractor, Contractor shall return permanent facility, system and services to "like new" condition prior to turnover to Owner at Substantial Completion; this includes but is not limited to cleaning, replacement of filters, replacement of burnt out lamps and replacement of worn parts. Warranties for all permanent facilities, systems and services shall start at Substantial Completion regardless of any prior use by Contractor.

E. Construction Zone Separations: Contractor shall provide all construction zone separations in accordance with Construction Documents and as necessary for construction work to proceed pursuant to the limitations of the Contract Documents, including those limitations related to noise and dust disruption levels established elsewhere in the Specifications.

PART 2 PRODUCTS

2.1 MATERIALS

A. Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 8 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts.

B. Portable Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 8 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails. Provide concrete or galvanized-steel bases for supporting posts.

C. Polyethylene Sheet: Reinforced, fire-resistive sheet, 10-mil minimum thickness, with flame- spread rating of 15 or less per ASTM E 84 and passing NFPA 701 Test Method 2.

D. Dust-Control Adhesive-Surface Walk-off Mats: Provide mats minimum 36 by 60 inches.

E. Insulation: Unfaced mineral-fiber blanket, manufactured from glass, slag wool, or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively.

F. Tarpaulins: Waterproof, fire-resistant UL labeled with flame spread rating of 15 or less. For temporary enclosures, provide translucent, nylon-reinforced, laminated polyethylene or polyvinyl chloride, fire-retardant tarpaulins.

G. Water: Potable and approved by local health authorities.

H. Wood: Lumber complying with DOC PS 20 and applicable grading rules of an inspection agency certified by ALSC's Board of Review for specific use. Provide preservative treated lumber where partially or fully in contact with the earth, concrete or masonry.

I. Sign, Directory and Other Graphic Panel Materials:
1. Panels: Exterior type Grade B-B high density concrete-form-overlay plywood.
2. Paint: Exterior primer and exterior grade alkyd gloss enamel top coat.

J. Safety Barrier and Covered Walkway Materials:
1. Panels: Minimum 5/8 inch thick exterior plywood.
2. Paint: Exterior primer and exterior grade acrylic-latex emulsion top coat.

2.2 TEMPORARY FACILITIES

A. Field Offices, General: Owner will provide interior area of the building to be used as temporary field office to accommodate needs of Owner, Architect, and construction personnel office activities and to accommodate Project meetings specified in other Division 01 Sections. Keep office clean and orderly. Furnish and equip offices as follows:
1. Furniture required for Project-site documents including file cabinets, tables, racks, and bookcases.
2. Conference room of sufficient size to accommodate meetings of 10 individuals. Provide electrical power service and 120-V ac duplex receptacles, with no fewer than one receptacle on each wall. Furnish room with conference table, chairs, and 4-foot-square tack and marker boards.
3. Drinking water.
4. Coffee machine and supplies.
5. Heating and cooling equipment necessary to maintain a uniform indoor temperature of 68 to 72 deg F.
6. Lighting fixtures capable of maintaining average illumination of 20 fc at desk height.

B. Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
1. Store combustible materials apart from building.
2. Provide sheds sized to storage requirements for products of individual Sections, allowing for access and orderly maintenance and inspection of products.

C. Storage and Staging Areas: Contractor shall be responsible for coordination, protection and safekeeping of products stored on site under this Contract including soil cut and fill. Refer to Contract Documents for any defined staging areas.
1. Move stored products that interfere with construction of the Work, or operations of Owner or separate contractors.
2. Obtain and pay for use of additional storage or staging areas as needed for the Work.
3. Provide storage areas sized to storage requirements for products of individual Sections, allowing for access and orderly maintenance and inspection of products.

D. Site space may not be sufficient for all temporary facilities. If site space is insufficient, Contractor shall be required to provide additional space off-site.

2.3 EQUIPMENT

A. Provide undamaged equipment in serviceable conditions and suitable for use intended.

B. Electric Outlets: Properly configured NEMA-polarized outlets to prevent insertion of 110 to 120 Volt plugs into higher voltage outlets. Provide receptacle outlets equipped with ground fault circuit interrupters, reset button and pilot light for connection of power tools and equipment.

C. Electric Power Cords: Grounded extension cords.
1. Provide hard-service cords where exposed to abrasion or traffic.
2. Provide waterproof connectors to connect separate lengths of electric cords where single lengths will not reach areas of construction activity.
3. Do not exceed safe length-voltage ratio.

D. Lamps and Light Fixtures: General service incandescent lamps of wattage required for adequate illumination.
1. Provide guard cages or tempered glass enclosures where exposed to breakage.
2. Provide exterior fixtures where exposed to moisture.

E. Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.

F. HVAC Equipment: Unless Owner authorizes use of permanent HVAC system, provide vented, self-contained, liquid-propane-gas or fuel-oil heaters with individual space thermostatic control. Temporary heating units that have been tested and labeled by UL, FM or another recognized trade association related to the type of fuel consumed.
1. Use of gasoline-burning space heaters, open-flame heaters, or salamander-type heating units is prohibited.
2. Heating Units: Listed and labeled for type of fuel being consumed, by a qualified testing agency acceptable to authorities having jurisdiction, and marked for intended location and application.
3. Permanent HVAC System: If Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with MERV of 8 at each return-air grille in system and remove at end of construction and clean HVAC system as required in Section 017700 "Closeout Procedures".

G. Air-Filtration Units: Primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.

PART 3 EXECUTION

3.1 INSTALLATION, GENERAL

A. Use qualified personnel for installation of temporary facilities.

B. Locate facilities where they will serve Project adequately and result in minimum interference with performance of the Work. Relocate and modify facilities as required by progress of the Work.

C. Provide each facility ready for use when needed to avoid delay. Do not remove until facilities are no longer needed or are replaced by authorized use of completed permanent facilities.

D. Maintain, relocate and modify facilities as required during the construction period.

3.2 TEMPORARY UTILITY INSTALLATION

A. General: Install temporary service or connect to existing service.
1. Arrange with utility company, Owner, and existing users for time when service can be interrupted, if necessary, to make connections for temporary services.
2. Provide adequate capacity at each stage of construction.
3. Obtain easements to bring in temporary utilities to the site where Owner easements are not available for that purpose.

B. Sewers and Drainage: Provide temporary utilities to remove effluent lawfully.
1. Connect temporary sewers to municipal system as directed by authorities having jurisdiction.
2. Provide adequate capacity at each stage of construction.

C. Water Service: Connect to Owner's existing water service facilities. Clean and maintain water service facilities in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

D. Sanitary Facilities: Provide temporary toilets, wash facilities, and drinking water for use of construction personnel. Comply with requirements of authorities having jurisdiction for type, number, location, operation, and maintenance of fixtures and facilities.
1. Toilets: Use of designated Owner's existing toilet facilities will be permitted, as long as facilities are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore these facilities to condition existing before initial use.

E. Heating and Cooling: Provide temporary heating and cooling required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of low temperatures or high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed.

F. Isolation of Work Areas in Occupied Facilities: Prevent dust, fumes, and odors from entering occupied areas.
1. Prior to commencing work, isolate the HVAC system in area where work is to be performed according to coordination drawings.
a. Disconnect supply and return ductwork in work area from HVAC systems servicing occupied areas.
b. Maintain negative air pressure within work area using HEPA-equipped air-filtration units, starting with commencement of temporary partition construction, and continuing until removal of temporary partitions is complete.
2. Maintain dust partitions during the Work. Use vacuum collection attachments on dust- producing equipment. Isolate limited work within occupied areas using portable dust- containment devices.
3. Perform daily construction cleanup and final cleanup using approved, HEPA-filter- equipped vacuum equipment.

G. Ventilation and Humidity Control: Provide temporary ventilation required by construction activities for curing or drying of completed installations or for protecting installed construction from adverse effects of high humidity. Select equipment that will not have a harmful effect on completed installations or elements being installed. Coordinate ventilation requirements to produce ambient condition required and minimize energy consumption.
1. Provide dehumidification systems when required to reduce substrate moisture levels to level required to allow installation or application of finishes.

H. Electric Power Service: Connect to Owner's existing electric power service. Maintain equipment in a condition acceptable to Owner. Provide additional electric power service and distribution system of sufficient size, capacity, and power characteristics required for construction operations. Provide weatherproof grounded electric power service and distribution system of sufficient size, capacity and power characteristics for construction needs. Include meters, transformers, overload-protected disconnects, automatic ground-fault interrupters and main distribution switch gear
1. Connect temporary service to Owner's existing power source, as directed by Owner.

I. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations, observations, inspections, and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
2. Install lighting for Project identification sign.

J. Telephone Service: Provide temporary telephone service in common-use facilities for use by all construction personnel. Install one telephone line(s) for each field office.
1. Provide additional telephone lines for the following:
a. Provide a dedicated telephone line for each facsimile machine in each field office.
2. At each telephone, post a list of important telephone numbers.
a. Police and fire departments.
b. Ambulance service.
c. Contractor's home office.
d. Contractor's emergency after-hours telephone number.
e. Architect's office.
f. Engineers' offices.
g. Owner's office.
h. Principal subcontractors' field and home offices.
3. Provide superintendent with cellular telephone or portable two-way radio for use when away from field office.

3.3 SUPPORT FACILITIES INSTALLATION

A. General: Comply with the following:
1. Provide construction for temporary offices, shops, and sheds located within construction area or within 30 feet of building lines that is noncombustible according to ASTM E 136. Comply with NFPA 241.
2. Maintain support facilities until Architect schedules Substantial Completion inspection.
Remove before Substantial Completion. Personnel remaining after Substantial Completion will be permitted to use permanent facilities, under conditions acceptable to Owner.

B. Temporary Roads and Paved Areas: Construct and maintain temporary roads and paved areas adequate for construction operations as acceptable to Owner. Locate temporary roads and paved areas within construction limits indicated on Drawings.
1. Provide dust-control treatment that is nonpolluting and nontracking. Reapply treatment as required to minimize dust.

C. Traffic Controls: Comply with requirements of authorities having jurisdiction.
1. Protect existing site improvements to remain including curbs, pavement, and utilities.
2. Maintain access for fire-fighting equipment and access to fire hydrants.

D. Parking: Use only designated areas of Owner's existing parking areas for construction personnel.
E. Dewatering Facilities and Drains: Comply with requirements of authorities having jurisdiction.
Maintain Project site, excavations, and construction free of water.
1. Dispose of rainwater in a lawful manner that will not result in flooding Project or adjoining properties or endanger permanent Work or temporary facilities.
2. Remove snow and ice as required to minimize accumulations.

F. Project Signs: Provide Project signs as indicated. Unauthorized signs are not permitted.
1. Identification Signs: Provide Project identification signs as acceptable to Owner and Architect with graphics and entities in locations acceptable to Owner. Engage an experienced sign painter to apply graphics. No other signage is acceptable without written acceptance of Owner and Architect.
2. Temporary Signs: Provide other signs as indicated and as required to inform public and individuals seeking entrance to Project.
a. Provide temporary, directional signs for construction personnel and visitors.
3. Maintain and touchup signs so they are legible at all times.
4. Do not permit installation of unauthorized signs.

G. Waste Disposal Facilities: Provide waste-collection containers in sizes adequate to handle waste from construction operations. Comply with requirements of authorities having jurisdiction. Comply with progress cleaning requirements in Section 01 73 00 "Execution."

H. Lifts and Hoists: Provide facilities necessary for hoisting materials and personnel.
1. Truck cranes and similar devices used for hoisting materials are considered "tools and equipment" and not temporary facilities.

I. Existing Elevator Use: Use of Owner's existing elevators will be permitted per Building Rules and Regulations and as acceptable to Owner, provided elevators are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore elevators to condition existing before initial use, including replacing worn cables, guide shoes, and similar items of limited life.
1. Do not load elevators beyond their rated weight capacity.
2. Provide protective coverings, barriers, devices, signs, or other procedures to protect elevator car and entrance doors and frame. If, despite such protection, elevators become damaged, engage elevator Installer to restore damaged work so no evidence remains of correction work. Return items that cannot be refinished in field to the shop, make required repairs and refinish entire unit, or provide new units as required.

J. Existing Stair Usage: Use of Owner's existing stairs will be permitted per Building Rules and Regulations and as acceptable to Owner, provided stairs are cleaned and maintained in a condition acceptable to Owner. At Substantial Completion, restore stairs to condition existing before initial use.
1. Provide protective coverings, barriers, devices, signs, or other procedures to protect stairs and to maintain means of egress. If stairs become damaged, restore damaged areas so no evidence remains of correction work.

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

A. Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.

B. Environmental Protection: Provide protection, operate temporary facilities, and conduct construction as required to comply with environmental regulations and that minimize possible air, waterway, and subsoil contamination or pollution or other undesirable effects.
1. Comply with work restrictions specified in Section 01 10 00 "Summary."

C. Temporary Erosion and Sedimentation Control: Provide measures to prevent soil erosion and discharge of soil-bearing water runoff and airborne dust to undisturbed areas and to adjacent properties and walkways, according to requirements of 2003 EPA Construction General Permit or authorities having jurisdiction, whichever is more stringent.
1. Verify that flows of water redirected from construction areas or generated by construction activity do not enter or cross tree- or plant- protection zones.
2. Inspect, repair, and maintain erosion- and sedimentation-control measures during construction until permanent vegetation has been established.
3. Clean, repair, and restore adjoining properties and roads affected by erosion and sedimentation from Project site during the course of Project.
4. Remove erosion and sedimentation controls and restore and stabilize areas disturbed during removal.

D. Stormwater Control: Comply with requirements of authorities having jurisdiction. Provide barriers in and around excavations and subgrade construction to prevent flooding by runoff of stormwater from heavy rains.

E. Pest Control: Engage pest-control service to recommend practices to minimize attraction and harboring of rodents, roaches, and other pests and to perform extermination and control procedures at regular intervals so Project will be free of pests and their residues at Substantial Completion. Perform control operations lawfully, using environmentally safe materials.

F. Site Enclosure Fence: Before construction operations begin, furnish and install site enclosure fence in a manner that will prevent people and animals from easily entering site except by entrance gates.
1. Extent of Fence: As required to enclose entire Project site or portion determined sufficient to accommodate construction operations.
2. Maintain security by limiting number of keys and restricting distribution to authorized personnel. Furnish one set of keys to Owner.

G. Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.

H. Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.

I. Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.

J. Covered Walkway: Erect protective, covered walkway for passage of individuals through or adjacent to Project site. Coordinate with entrance gates, other facilities, and obstructions. Comply with regulations of authorities having jurisdiction.
1. Construct covered walkways using scaffold or shoring framing.
2. Provide overhead decking, protective enclosure walls, handrails, barricades, warning signs, exit signs, lights, safe and well-drained walkways, and similar provisions for protection and safe passage.
3. Paint and maintain appearance of walkway for duration of the Work.

K. Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress or completed, from exposure, inclement weather, other construction operations and similar conditions.
1. Where heat is needed and the building enclosure is not complete, provide temporary enclosures where there is no other provision for containment of heat. Coordinate enclosure with ventilating and material drying or curing requirements to avoid dangerous conditions or unacceptable effects.
2. Close openings of 25 sq. ft. or greater with plywood or similar materials.
3. Close openings through floor or roof decks and other horizontal surfaces with load-bearing wood-framed construction.
4. Where enclosure exceeds 100 sq. ft. in area, use UL labeled fire retardant-treated wood and plywood for framing and sheathing.

L. Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner and tenants from fumes and noise.
1. Construct dustproof partitions with gypsum wallboard with joints taped on occupied side, and fire-retardant-treated plywood on construction operations side.
2. Construct dustproof partitions with two layers of 6-mil polyethylene sheet on each side.
Cover floor with two layers of 6-mil polyethylene sheet, extending sheets 18 inches up the sidewalls. Overlap and tape full length of joints. Cover floor with fire-retardant-treated plywood.
a. Construct vestibule and airlock at each entrance through temporary partition with not less than 48 inches between doors. Maintain water-dampened foot mats in vestibule.
3. Where fire-resistance-rated temporary partitions are indicated or are required by authorities having jurisdiction, construct partitions according to the rated assemblies.
4. Insulate partitions to control noise transmission to occupied areas.
5. Seal joints and perimeter. Equip partitions with gasketed dustproof doors and security locks where openings are required.
6. Protect air-handling equipment.
7. Provide walk-off mats at each entrance through temporary partition.

A. M. Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.
1. Prohibit smoking in construction areas.
2. Supervise welding operations, combustion-type temporary heating units, and similar sources of fire ignition according to requirements of authorities having jurisdiction.
3. Develop and supervise an overall fire-prevention and -protection program for personnel at Project site. Review needs with local fire department and establish procedures to be followed. Instruct personnel in methods and procedures. Post warnings and information.
4. Provide temporary standpipes and hoses for fire protection. Hang hoses with a warning sign stating that hoses are for fire-protection purposes only and are not to be removed. Match hose size with outlet size and equip with suitable nozzles.
5. Comply with International Building Code, NFPA 10 "Standard for Portable Fire Extinguishers" and NFPA 241 "Standard for Safeguarding Construction, Alterations, and Demolition Operations". Requirements include, but are not limited to, the following: Vehicle access to within 100 feet of pertinent or temporary fire department connection; lighted, temporary, or permanent stair(s) as required when a height of 50 feet or 4 stories is reached. Approved water supply required as soon as combustibles arrive on site. One standpipe required during construction, emergency telephone facilities provided in an approved location. Street address of construction site and emergency telephone number of fire department shall be posted adjacent to the telephone.
6. Locate fire extinguishers where convenient and effective for their intended purpose, but not less than one extinguisher at or near each access route exit or entrance, including stairwells on each floor.
7. In addition to locations listed above, provide portable fire extinguishers at the following locations; at each stairway on all floor levels where combustible materials accumulate; in every storage and construction shed. Provide additional portable extinguishers where special hazards exist including but not limited to, storage and use of flammable and combustible liquids, hot work and roofing operations.
8. Store combustible materials in containers in fire-safe locations.
9. Maintain unobstructed access to fire extinguishers, fire hydrants, temporary fire protection facilities and access routes. Prohibit smoking in hazardous fire exposure areas.
10. Provide supervision of welding operations, combustion-type temporary heating units and other sources of fire ignition.

3.2 MOISTURE AND MOLD CONTROL

A. Contractor's Moisture-Protection Plan: Avoid trapping water in finished work. Document visible signs of mold that may appear during construction.

B. Exposed Construction Phase: Before installation of weather barriers, when materials are subject to wetting and exposure and to airborne mold spores, protect as follows:
1. Protect porous materials from water damage.
2. Protect stored and installed material from flowing or standing water.
3. Keep porous and organic materials from coming into prolonged contact with concrete.
4. Remove standing water from decks.
5. Keep deck openings covered or dammed.

C. Partially Enclosed Construction Phase: After installation of weather barriers but before full enclosure and conditioning of building, when installed materials are still subject to infiltration of moisture and ambient mold spores, protect as follows:
1. Do not load or install drywall or other porous materials or components, or items with high organic content, into partially enclosed building.
2. Keep interior spaces reasonably clean and protected from water damage.
3. Periodically collect and remove waste containing cellulose or other organic matter.
4. Discard or replace water-damaged material.
5. Do not install material that is wet.
6. Discard, replace, or clean stored or installed material that begins to grow mold.
7. Perform work in a sequence that allows any wet materials adequate time to dry before enclosing the material in drywall or other interior finishes.

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D. Controlled Construction Phase of Construction: After completing and sealing of the building enclosure but prior to the full operation of permanent HVAC systems, maintain as follows:
1. Control moisture and humidity inside building by maintaining effective dry-in conditions.
2. Use permanent HVAC system to control humidity.
3. Comply with manufacturer's written instructions for temperature, relative humidity, and exposure to water limits.
   a. Hygroscopic materials that may support mold growth, including wood and gypsum- based products, that become wet during the course of construction and remain wet for 48 hours are considered defective.
   b. Measure moisture content of materials that have been exposed to moisture during construction operations or after installation. Record readings beginning at time of exposure and continuing daily for 48 hours. Identify materials containing moisture levels higher than allowed. Report findings in writing to Architect.
   c. Remove materials that cannot be completely restored to their manufactured moisture level within 48 hours.

3.6 OPERATION, TERMINATION, AND REMOVAL

A. Supervision: Enforce strict discipline in use of temporary facilities. To minimize waste and abuse, limit availability of temporary facilities to essential and intended uses.

B. Maintenance: Maintain facilities in good operating condition until removal. Maintain operation of temporary enclosures, heating, cooling, humidity control, ventilation, and similar facilities on a 24-hour basis where required to achieve indicated results and to avoid possibility of damage.

C. Temporary Facility Changeover: Do not change over from using temporary security and protection facilities to permanent facilities until Substantial Completion.

D. Termination and Removal: Remove each temporary facility when need for its service has ended, when it has been replaced by authorized use of a permanent facility, or no later than Substantial Completion. Complete or, if necessary, restore permanent construction that may have been delayed because of interference with temporary facility. Repair damaged Work, clean exposed surfaces, and replace construction that cannot be satisfactorily repaired.
1. Materials and facilities that constitute temporary facilities are property of Contractor. Owner reserves right to take possession of Project identification signs.
2. Remove temporary roads and paved areas not intended for or acceptable for integration into permanent construction. Where area is intended for landscape development, remove soil and aggregate fill that do not comply with requirements for fill or subsoil. Remove materials contaminated with road oil, asphalt and other petrochemical compounds, and other substances that might impair growth of plant materials or lawns. Repair or replace street paving, curbs, and sidewalks at temporary entrances, as required by authorities having jurisdiction.
3. At Substantial Completion, repair, renovate, and clean permanent facilities used during construction period. Comply with final cleaning requirements specified in Section 01 77 00 "Closeout Procedures."

END OF SECTION 01 50 00

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for selection of products for use in Project; product delivery, storage, and handling; manufacturers' standard warranties on products; special warranties; and comparable products.

B. Related Requirements:
1. Section 01 25 00 - Substitution Procedures for requests for substitutions.
2. Section 01 33 00 - Submittal Procedures for definition of Range Samples.

1.3 DEFINITIONS

A. Definitions used in this Article are not intended to change the meaning of other terms used in the Contract Documents, such as "specialties," "systems," "structure," "finishes," "accessories," and similar terms. Such terms are self-explanatory and have well recognized meanings in the construction industry.

B. Products: Items obtained for incorporating into the Work, whether purchased for Project or taken from previously purchased stock. The term "product" includes the terms "material," "equipment," "system," and terms of similar intent. Comply with specifications and referenced standards as minimum requirements.
1. Named Products: Items identified by manufacturer's product name, including make or model number or other designation shown or listed in manufacturer's published product literature that is current as of date of the Contract Documents.
2. Materials: Products that are substantially shaped, cut, worked, mixed, finished, refined or otherwise fabricated, processed, or installed to form a part of the Work.
3. Equipment: A product with operational parts, whether motorized or manually operated, that requires service connections such as wiring or piping.
4. New Products: New Products are items that have not previously been incorporated into another project or facility. Products salvaged or recycled from other projects are not considered new products.
5. Basis-of-Design Product Specification: Specification in which a specific manufacturer's product is named and accompanied by the words "basis-of-design product," including make or model number or other designation, to establish the significant qualities related to type, function, dimension, in-service performance, physical properties, appearance, color, finish, and other characteristics for purposes of evaluating comparable products of additional manufacturers named in the specification.
6. Comparable Product: A product proposed by Contractor from a list of manufacturers listed in the individual product specification that allows for comparable products, or includes the terms "or approved equal" or "or equal" in lieu of "Basis of Design", proprietary or semi- proprietary product.
   a. Comply with procedure for submission of "comparable products" as required in this Section.
   b. Contractor shall provide information to demonstrate through submittal process, that product submitted have the indicated qualities related to type, function, dimension, in- service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product.
   c. In instances of dispute as to whether any product proposed by Contractor is an acceptable "comparable product", the judgment of Architect shall govern.
   d. The burden of proof rests solely with Contractor.
7. Match existing: Where indicated on drawings to "match existing," the Contractor is responsible to field verify the existing condition and present for the Architect's approval the existing product assembly and/or finish to match.
   a. If accepted, the installation will follow the assembly manufacturer's current recommendations and standards meeting all applicable codes and testing.
   b. The accepted assembly must also meet all building owner standards if they are more stringent than the manufacturers.
   c. All requirements and procedures in Division 01 sections will apply.
   d. If accepted assembly matches attic stock available from owner, Architect can choose to have attack stock installed in new work.
8. Substitution: A product proposed by Contractor which is different from that which is required by the Contract Documents and is not a listed product or by a listed manufacturer allowing for "comparable products" in an individual product specification.
   a. Comply with procedure for substitutions as defined in Section 01 25 00 "Substitution Procedures." Do not submit as "comparable product" or as part of submittal review process. Submit as substitution with required documentation.
   b. In instances of dispute as to whether any substitution proposed by Contractor is acceptable, the judgement of Architect shall govern.
   c. The burden of proof rests solely with Contractor.

1.4 ACTION SUBMITTALS

A. Product Submittals: Comply with requirements in Section 01 33 00 - Submittal Procedures and individual specification sections showing compliance with requirements.
1. Comparable Product Requests: Submit sufficient information for consideration of each comparable product, identifying product to be replaced, compliance with requirements and indicating qualities related to type, function, dimension, in-service performance, physical properties, appearance, and other characteristics that equal or exceed those of specified product. Include Specification Section number and title and Drawing numbers and titles.
   a. Include data to indicate compliance with the requirements specified in "Comparable Products" Article.
   b. Submit in conjunction with other submittals required in technical specification section. Do not submit substitutions as comparable products. Items that are a substitution will be returned "Rejected" for proper submission as substitution.
   c. Architect's Action: If necessary, Architect will request additional information or documentation for evaluation within one week of receipt of a comparable product request. Architect will notify Contractor of approval or rejection of proposed comparable product request within 15 days of receipt of request, or 7 days of receipt of additional information or documentation, whichever is later.
   1) Form of Approval: Per Section 01 33 00 - Submittal Procedures.
   2) Use product specified if Architect does not issue a decision on use of a comparable product request within time allocated.
2. Basis-of-Design Product Specification Submittal: Comply with requirements in Section 01 33 00 - Submittal Procedures. Show compliance with requirements.

1.5 QUALITY ASSURANCE

A. Source Limitations: To the fullest extent possible, provide products of the same kind from a single source.

B. Compatibility of Options: If Contractor is given an option of selecting between two or more products for use on Project, select product compatible with products previously selected, even if previously selected products were also options.

C. Whenever the Contract Documents require that a product complies with Federal Specifications, ASTM Designations, ANSI Specifications or other association standard, Contractor shall present an affidavit from the manufacturer certifying that the product complies therewith. Where requested or specified, submit supporting test data to substantiate compliance.

D. Nameplates and labels: Except for required labels and operating data, do not attach or imprint manufacturer's or producer's nameplates or trademarks on exposed surfaces of products that will be exposed to view in occupied spaces or on the exterior.
1. Labels: Locate required product labels and stamps on concealed surfaces or, where required for observation after installation, on accessible surfaces that are not conspicuous.
2. Equipment Nameplates: Provide a permanent nameplate on each item of service- connected or power-operated equipment. Locate on an easily accessible surface that is inconspicuous in occupied spaces. The nameplate shall contain the following information and other essential operating data:
   a. Name of product and manufacturer.
   b. Model and serial number.
   c. Capacity.
   d. Speed.
   e. Ratings.

E. Workmanship:
1. Comply with industry standards, except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
2. Perform work by persons qualified to produce workmanship of specified quality.
3. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.

F. Manufacturer's Instructions:
1. When work is specified to comply with manufacturer's instructions, submit copies as specified in Section 01 33 00 - Submittal Procedures, distribute copies to persons involved, and maintain one set in field office.
2. Perform work in accordance with details of instructions and specified requirements.

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle products using means and methods that will prevent damage, deterioration, and loss, including theft and vandalism. Comply with manufacturer's written instructions. More detailed requirements for transportation and handling are specified under the technical Sections.
1. Transport products by methods to avoid product damage. Provide appropriate equipment and qualified personnel to move products on-site without damage.
2. Schedule delivery to minimize long-term storage at Project site and to prevent overcrowding of construction spaces.
3. Coordinate delivery with installation time to ensure minimum holding time for items that are flammable, hazardous, easily damaged, or sensitive to deterioration, theft, and other losses.
4. Deliver products to Project site in an undamaged condition in manufacturer's original sealed container or other packaging system, complete with labels and instructions for handling, storing, unpacking, protecting, and installing.
5. Inspect products on delivery to determine compliance with the Contract Documents and to determine that products are undamaged and properly protected.
6. Store products to allow for inspection and measurement of quantity or counting of units as well as inspection or review for compliance with requirements of the Contract Documents.
7. Store materials in a manner that will not endanger Project structure.
8. Provide suitable temporary weathertight storage facilities as may be required for materials to protect them from damage in storage, maintaining environmental conditions, including temperature, ventilation, and humidity, conforming to manufacturer's requirements, warranty requirements, and as necessary to protect the stored material from damage. Do not use damaged material in the Work.
   a. Available storage space at the job site is limited. Any additional off-site space required is the responsibility of Contractor.
   b. Allocate storage areas and coordinate their use by the trades on Project. Maintain current layout of storage facilities. Secure and control access to storage to protect stored materials from theft, vandalism or other damage.

1.7 PRODUCT WARRANTIES

A. Warranties specified in other Sections shall be in addition to, and run concurrent with, other warranties required by the Contract Documents. Manufacturer's disclaimers and limitations on product warranties do not relieve Contractor of obligations under requirements of the Contract Documents.
1. Manufacturer's Warranty: Written warranty furnished by individual manufacturer for a particular product and specifically endorsed by manufacturer to Owner.
2. Special Warranty: Written warranty required by the Contract Documents to provide specific rights for Owner.

B. Special Warranties: Prepare a written document that contains appropriate terms and identification, ready for execution.
1. Manufacturer's Standard Form: Modified to include Project-specific information and properly executed.
2. Specified Form: When specified forms are included with the Specifications, prepare a written document using indicated form properly executed.
3. See other Sections for specific content requirements and particular requirements for submitting special warranties.

C. Provide full warranty period to Owner for any equipment used by contractor for temporary construction purposes.

D. Submittal Time: Comply with requirements in Section 01 77 00 - Closeout Procedures.

PART 2 PRODUCTS

2.1 PRODUCTS, GENERAL

A. Products: Provide products as specified in the different specification sections meeting descriptive and performance requirements indicated. Provide proprietary products indicated unless comparable products or "approved equals" are indicated. Provide substitutions only where allowed or meeting the requirements in Section 01 77 00 - Closeout Procedures.
1. Restricted List: Where Specifications include a list of names of both manufacturers and products, provide one of the products listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered, unless otherwise indicated.
2. Nonrestricted List: Where Specifications include a list of names of both available manufacturers and products, provide one of the products listed, or an unnamed product, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed product.
3. In case of conflict between differing specifications for a product, the most stringent specification (or the most stringent combination of specifications) shall apply. Contact Architect regarding interpretation of specifications as required
4. Materials specified on Contract Documents by reference to title, symbol, or number of a Commercial or Industry Standard, Federal Specification, ASTM designation, ANSI designation, Manufacturer's data, or other similar reference standard are identified hereby as the minimum requirement for the quality of materials required hereunder. References are to latest editions of same, except as indicated otherwise. If not in contradiction to the building code or regulations of other governmental agencies as may have jurisdiction, such reference documents shall be considered as an integral part of these specifications as if repeated word for word herein.

B. Manufacturers: Provide products by listed manufacturers meeting project requirements.
Consideration of other manufacturers where allowed by the specifications or meeting specific requirements for substitutions are dependent on meeting specified requirements including proven expertise, experience and similar project experience as listed under Quality Assurance in technical specification sections.
1. Restricted List: Where Specifications include a list of manufacturers' names, provide a product by one of the manufacturers listed that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered, unless otherwise indicated.
2. Non-restricted List: Where Specifications include a list of available manufacturers, provide a product by one of the manufacturers listed, or a product by an unnamed manufacturer, that complies with requirements. Comply with requirements in "Comparable Products" Article for consideration of an unnamed manufacturer's product.
3. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.

2.2 PRODUCT SELECTION PROCEDURES

A. General Product Requirements: Comply with specifications and referenced standards as minimum requirements. Provide products that comply with the Contract Documents, are undamaged and, unless otherwise indicated, are new at time of installation.
1. Provide products complete with accessories, trim, finish, fasteners, and other items needed for a complete installation and indicated use and effect.
2. Products required to be supplied in quantity within a Specification Section shall be of the same manufacture, shall be interchangeable, and shall be the same with regard to function, texture, pattern and color. To the greatest extent possible, provide products from a single source.
3. Standard Products: If available, and unless custom products or nonstandard options are specified, provide standard products of types that have been produced and used successfully in similar situations on other projects.
4. Owner reserves the right to limit selection to products with warranties not in conflict with requirements of the Contract Documents.

B. Product Selection Procedures: Product selection is governed by the Contract Documents and governing regulations, not by previous Project experience. Procedures governing product selection include the following:
1. Proprietary Specification Requirements: Where only a single product is named, provide the product indicated. Comparable products or substitutions for Contractor's convenience will not be considered, unless otherwise indicated.
2. Manufacturer/Source: Where Specifications name a single manufacturer or source, provide a product by the named manufacturer or source that complies with requirements. Comparable products or substitutions for Contractor's convenience will not be considered.
3. Basis-of-Design Product: Where Specifications name a product, or refer to a product indicated on Drawings, and include a list of manufacturers, provide the specified or indicated product or a comparable product by one of the other named manufacturers.
   a. Drawings and Specifications indicate sizes, profiles, dimensions, colors, finishes and other characteristics that are based on the product named.
   b. Comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed by one of the other named manufacturers.
4. Semi-Proprietary Specification Requirements: Where two or more products or manufacturers are named, provide one of the products specified. Comparable products or substitutions for Contractor's convenience will not be considered.
5. Where products or manufacturers are specified by name, accompanied by the term "or equal," or "or approved equal" comply with requirements in "Comparable Products" Article to obtain approval for use of an unnamed product.
6. Non-Proprietary Specifications: Where Specifications list products or manufacturers that are available and may be incorporated in the Work, but do not restrict Contractor to use of these products only, Contractor may propose any available product that complies with Contract requirements.
7. Descriptive Specification Requirements: Where Specifications describe a product or assembly, listing exact characteristics required, with or without use of a brand or trade name, provide a product or assembly that provides the characteristics and otherwise complies with Contract requirements.
8. Performance Specification Requirements: Where Specifications require compliance with performance requirements, provide products that comply with these requirements, and are recommended by the manufacturer for the application shown or specified. General overall performance of a product is implied where the product is specified for a specific application.
   a. Manufacturer's recommendations may be contained in published product literature, or by the manufacturer's certification of performance.
9. Compliance with Standards, Codes and Regulations: Where Specifications only require compliance with an imposed code, standard or regulation, provide a product that complies with the standards, codes or regulations specified.
   a. Provide an affidavit from the manufacturer certifying that the product complies with standards, codes, or regulations and submit supporting test data to substantiate compliance, if requested by Owner.
10. Product Options: Where Specifications indicate that sizes, profiles, and dimensional requirements on Drawings are based on a specific product or system, provide the specified product or system. Comply with provisions in Section 01 25 00 - Substitution Procedures for consideration of an unnamed product or system.

C. Visual Matching Specification: Where Specifications require "match Architect's sample", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches satisfactorily.
1. Where multiple items are to match same Architect's sample, finish and color shall be controlled by single entity so that finish is applied by the same finisher or finishing materials from the same production lot shall be used at multiple finishers. Final finish of each item or system shall match.
2. If no product available within specified category matches satisfactorily and complies with other specified requirements, comply with requirements in Section 01 25 00 - Substitution Procedures for selection of a matching product in another product category, or for noncompliance with specified requirements.

D. Visual Selection Specification:
1. Where Specifications include the phrase "as selected by Architect from manufacturer's full range" or similar phrase, submit product that complies with all specified requirements to Architect with finish samples from manufacturer's complete product line that includes both standard and premium items for Architect's selection of finish including color, gloss, pattern, density, and texture.
   a. Include manufacturer's name and pertinent data which will facilitate completion of color schedule until submittals and required samples have been submitted to and reviewed by Architect.
   b. Include items which may come in only one or a limited number of colors.
   c. Include items which are specified without any reference to color, but which come in a color, and require selection by Architect.
   d. In no case shall a color for materials, products or equipment for which colors are available be selected or submitted without first consulting Architect.
2. The sentence "Custom color selected by Architect.", "Match existing color." or "Match Architect's approved sample." shall mean that color, texture or pattern has been selected or that it will be selected by Architect and that Contractor shall provide color, texture or pattern conforming to that selection.
3. When, due to the nature of the material, the material is available in a range of colors, i.e., natural stone, brick, and tile, Contractor shall submit the full available range of colors for that material for Architect's review. When material is available with varying characteristics, Contractor shall submit a multiple set of samples depicting the applicable range proposed for this project. Materials not conforming to the approved color range will be rejected and Contractor shall remove nonconforming materials from the site and replace them with materials in the approved color range at Contractor's expense.

E. Custom: Where Specifications require "custom", provide a product that complies with requirements and matches Architect's sample. Architect's decision will be final on whether a proposed product matches. Custom items shall not be restricted by manufacturer's standard finishes or colors.

2.3 COMPARABLE PRODUCTS

A. General: Any proposed Comparable Product Request must maintain the quality standards established by the Contract Documents for the specified product without any detrimental effect to Owner. Comparable products shall be in compliance with Contract Document requirements. Deviation in compliance shall be expressly noted. Contractor shall be required to provide all documentation and information necessary to prove that the Comparable Product is "equal" to the listed product.

B. If Contractor submits a product other than the product specified as the "Basis of Design", and the submitted alternate manufacturer is named in the relevant specification Section, that submittal shall be processed in accordance with requirements in Section 01 33 00 - Submittal Procedures.
1. Contractor shall submit all required evidence to show alternate product's compliance with technical requirements and equivalency with the "Basis of Design" product. Contractor is responsible for providing documentation that proves that product of manufacturer meets the requirements of the Contract Documents.
2. If changes are required in the related work, Contractor shall note such in submittal.
3. Architect may directly approve or disapprove this product as reviewed in the submittal.
4. Finish and color or alternate manufacturer or product shall match Architect's control sample or scheduled "Basis of Design" product.
   a. Where finish or color does not match as determined by Architect, provide custom color and finish to match Basis of Design product scheduled.

C. Conditions for Consideration: Architect will consider Contractor's request for comparable product when the following conditions are satisfied. If the following conditions are not satisfied, Architect may return requests without action, except to record noncompliance with these requirements:
1. Evidence that the proposed product does not require revisions to the Contract Documents that it is consistent with the Contract Documents and will produce the indicated results, and that it is compatible with other portions of the Work.
   a. Detailed comparison of significant qualities of proposed product with those named in the Specifications. Include annotated copy of applicable Specification Section addressing each item in section in left hand margin stating whether proposed substitution complies with requirement or deviates. Specifically indicate deviations and impact on Work.
      1) Significant qualities may include attributes such as performance, weight, deflection, tolerances, size, durability, visual effect, warranties, and specific features and requirements indicated.
2. Evidence that proposed product provides specified warranty.
3. List of similar installations for completed projects with project names and addresses and names and addresses of architects and owners, if requested.
4. Samples showing full range of colors including submission for specific finish to match Architect's control sample or selected product.
   a. Where color or finish does not match Architect's control sample or selected product, provide custom color or finish.
   b. Submit range samples for materials available in a range of colors.
   c. Submit a multiple set of samples depicting the applicable range proposed for this project.
   d. Provide photographs of quarried materials showing proposed selection.
5. Material test reports from a qualified testing agency indicating and interpreting test results for compliance with requirements indicated.
6. Research/evaluation reports evidencing compliance with building code in effect for Project, from model code organization acceptable to authorities having jurisdiction.
7. Contractor's certification that proposed Comparable Product complies with requirements in Contract Documents, is compatible with related materials, appropriate for applications indicated, and has no impact on Construction Cost or Schedule.
8. Other information as necessary to assist evaluation.

D. Architect will review submittals for comparable products as part of the submittal process per Section 01 33 00 - Submittal Procedures. Architect will review information provided and whether the following conditions are satisfied.
1. Comparable Product does not require unacceptable revisions to Contract Documents.
2. Comparable Product is consistent with Contract Documents and will produce desired results.
3. Comparable Product is fully documented and properly submitted.
4. Comparable Product will not unnecessarily adversely affect Contractor's Construction Schedule.
5. Comparable Product has received necessary approvals of authorities having jurisdiction.
6. Comparable Product has been coordinated, and is compatible, with other portions of the Work.
7. Comparable Product provides specified warranty.
8. If Comparable Product involves more than one contractor, Comparable Product has been coordinated with other portions of the Work, is uniform and consistent, is compatible with other products, and is acceptable to all contractors involved.

E. Architect will return submittals with action noted. If necessary, Architect will request additional information or documentation for evaluation with returned submittal.

2.4 PROOF OF COMPLIANCE

A. Materials specified on the Contract Documents by reference to title, symbol, or number of a Commercial or Industry Standard, Federal Specification, ASTM designation, ANSI designation, Manufacturer's data, or other similar reference standard are identified hereby as the minimum requirement for the quality of materials required hereunder.
1. References are to the latest editions of same, except as indicated otherwise.
2. If not in contradiction to the building code or regulations of other governmental agencies as may have jurisdiction, such reference documents shall be considered as an integral part of these specifications as if repeated word for word herein.

B. Whenever the Contract Documents require that a product complies with Federal Specifications, ASTM Designations, ANSI Specifications or other association standard, Contractor shall present an affidavit from the manufacturer certifying that the product complies therewith. Where requested or specified, submit supporting test data to substantiate compliance.

PART 3 EXECUTION

3.1 INSTALLATION OF PRODUCTS

A. Products shall be applied, installed, connected, erected, used, adjusted, cleaned and conditioned in accordance with respective manufacturer's instructions and recommendations unless more stringent requirements are specified.
1. In case of any differences or conflicts between requirements of a manufacturer's written instructions and the technical sections of the specifications, the instructions of specifications having the more detailed and precise requirements which are specifically applicable to the Work in question, as determined by Architect shall govern.

B. Verify and coordinate clearances, dimensions and installation of adjoining construction, equipment, piping, ducts, conduits, or other mechanical or electrical items or apparatus.

C. Prior to fabrication, field measure actual existing conditions as applicable to ensure proper fit.

D. Inspect each item of material or equipment immediately prior to installation. Reject damaged and defective items.

E. Recheck measurements and dimensions of Work, as an integral step of starting each installation. Whenever stock manufactured products are specified, verify actual space requirements for setting or placing into allotted space.

F. Anchor each product securely in place with positive anchorage devices designed and sized to withstand expected loads. Anchors shall be accurately located and aligned with other Work.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, and racking.

H. Allow for expansion of materials and building movement.

I. Damaged products shall be not installed as part of the Work. At Owner's sole discretion, Owner may approve the use of repaired items in the Work. Contractor shall bear all costs related to replacing or repairing and refurbishing damaged products.

3.2 PROTECTION OF INSTALLED WORK

A. Clean, protect, adjust and perform maintenance on installed Work as necessary to ensure freedom from damage and deterioration at time of Substantial Completion. Remove protective devices when no longer needed.
1. Provide special protection where specified in individual Specification Sections.
2. Provide temporary and removable materials for protection of installed products. Control activity in immediate work area to minimize damage.
3. Protect finished Work from damage, defacements, stains, scratches, and wear.
4. Provide protective coverings at walls, projections, jambs, sills, and soffits of openings.
5. Protect finished floors, stairs, and other surfaces from traffic dirt, wear, damage, or movement of heavy objects, by protecting with durable sheet materials.

END OF SECTION 01 60 00

SECTION 01 73 00 - EXECUTION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes general administrative and procedural requirements governing execution of the Work including, but not limited to, the following:
1. Construction layout.
2. Installation of the Work.
3. Cutting and patching.
4. Progress cleaning.
5. Starting and adjusting.
6. Protection of installed construction.
7. Correction of the Work.

B. Related Requirements:
1. Section 01 10 00 - Summary for limits on use of Project site.
2. Section 01 33 00 - Submittal Procedures for submitting surveys.
3. Section 01 77 00 - Closeout Procedures for submitting final property survey with Project Record Documents, recording of Owner-accepted deviations from indicated lines and levels, and final cleaning.

1.3 DEFINITIONS

A. Cutting: Removal of in-place construction necessary to permit installation or performance of other work.
Patching: Fitting and repair work required to restore construction to original conditions after installation of other work.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For land surveyor/professional engineer.

B. Certificates: Submit certificate signed by land surveyor/professional engineer certifying that location and elevation of improvements comply with requirements.

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ARCHITECTURAL SPECIFICATIONS

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C. Cutting and Patching Plan: Submit plan describing procedures at least 10 days prior to the time cutting and patching will be performed. Include the following information:
1. Extent: Describe reason for and extent of each occurrence of cutting and patching.
2. Procedures: Specifically describe how cutting and patching will be performed.
3. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
4. Products: List products to be used for patching and firms or entities that will perform patching work.
5. Trades: Indicate the firms or entities that will perform the cutting and patching.
6. Dates: Indicate when cutting and patching will be performed.
7. Structural Elements: Where cutting and patching involve modifying structural elements, including precast concrete, submit details and engineering calculations, generated by a professional engineer licensed to practice in the jurisdiction where the project is located, indicating structural integrity of proposed modification.
8. Effect on weatherproof integrity of the Work.

9. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate length of time permanent services and systems will be disrupted. Indicate utilities that will need to be relocated.
a. Include description of provisions for temporary services and systems during interruption of permanent services and systems.
10. Cost proposal when applicable.
11. Architect's Approval: Obtain Architect's approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.
12. Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void or diminish required or existing warranties.

1.5 QUALITY ASSURANCE

A. Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
1. Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection
2. Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
a. Primary operational systems and equipment.
b. Fire separation assemblies.
c. Air or smoke barriers.
d. Fire-suppression systems.
e. Mechanical systems piping and ducts.
f. Control systems.
g. Communication systems.
h. Fire-detection and -alarm systems.
i. Conveying systems.
j. Electrical wiring systems.
k. Operating systems of special construction.
3. Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following:
a. Water, moisture, or vapor barriers.
b. Membranes and flashings.
c. Exterior curtain-wall construction.
d. Sprayed fire-resistive material.
e. Equipment supports.
f. Piping, ductwork, vessels, and equipment.
g. Noise- and vibration-control elements and systems.
4. Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch exposed construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.
5. Fire-Rated Assemblies: At penetrations of fire-rated assemblies, completely seal penetration with firestop in accordance with Division 7 Sections.

B. Cutting and Patching Conference: Before proceeding, meet at Project site with parties involved in cutting and patching, including mechanical and electrical trades. Review areas of potential interference and conflict. Coordinate procedures and resolve potential conflicts before proceeding.

C. Manufacturer's Installation Instructions: Obtain and maintain on-site manufacturer's written recommendations and instructions for installation of products and equipment.

PART 2 PRODUCTS

2.1 MATERIALS

A. General: Comply with requirements specified in other Sections.

B. In-Place Materials: Use materials for patching identical to in-place materials. For exposed surfaces, use materials that visually match in-place adjacent surfaces to the fullest extent possible.
1. If identical materials are unavailable or cannot be used, use materials that, when installed, will provide a match acceptable to Architect for the visual and functional performance of in-place materials.

PART 3 EXECUTION

3.1 EXAMINATION

A. Existing Conditions: The existence and location of underground and other utilities and construction indicated as existing are not guaranteed. Before beginning sitework, investigate and verify the existence and location of underground utilities, mechanical and electrical systems, and other construction affecting the Work.
1. Before construction, verify the location and invert elevation at points of connection of sanitary sewer, storm sewer, and water-service piping; underground electrical services, and other utilities.
2. Furnish location data for work related to Project that must be performed by public utilities serving Project site.

B. Examination and Acceptance of Conditions: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present where indicated, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.
1. Examine roughing-in for mechanical and electrical systems to verify actual locations of connections before equipment and fixture installation.
2. Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
3. Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

C. Written Report: Where a written report listing conditions detrimental to performance of the Work is required by other Sections, include the following:
1. Description of the Work.
2. List of detrimental conditions, including substrates.
3. List of unacceptable installation tolerances.
4. Recommended corrections.

D. Proceed with installation only after unsatisfactory conditions have been corrected. Proceeding with the Work indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

B. Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.

C. Require compliance with manufacturer's printed installation instructions, including each step in sequence. Do not omit preparatory steps or installation procedures unless specifically modified or exempted by Contract Documents

D. Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for information to Architect according to requirements in Section 01 31 00 - Project Management and Coordination.

3.3 FIELD ENGINEERING AND LAYOUT

A. Provide all field engineering services required to lay out the Work.

B. Reference Points: Locate existing permanent benchmarks, control points, and similar reference points before beginning the Work. Preserve and protect permanent benchmarks and control points during construction operations.
1. Do not change or relocate existing benchmarks or control points without prior written approval of Architect. Report lost or destroyed permanent benchmarks or control points promptly. Report the need to relocate permanent benchmarks or control points to Architect before proceeding.
2. Replace lost or destroyed permanent benchmarks and control points promptly. Base replacements on the original survey control points.
3. Record benchmark locations, with horizontal and vertical data, on Project Record Documents.
4. Where the actual location or elevation of layout points cannot be marked, provide temporary reference points sufficient to locate the Work.
5. Remove temporary reference points when no longer needed. Restore marked construction to its original condition.

C. Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings, in relation to the property survey and existing benchmarks. If discrepancies are discovered, notify Architect promptly.

D. General:
1. Establish/use benchmarks and control points to set lines and levels at each story of construction and elsewhere as needed to locate each element of Project.
2. Establish limits on use of Project site.
3. Establish dimensions within tolerances indicated. Do not scale Drawings to obtain required dimensions.
4. Inform installers of lines and levels to which they must comply.
5. Check the location, level and plumb, of every major element as the Work progresses.
6. Notify Architect when deviations from required lines and levels exceed allowable tolerances.
7. Protect and maintain all benchmarks, control points and reference points. If survey control points are damaged, moved, or destroyed, re-establish the control points.

E. Building Lines and Levels: Locate and lay out control lines and levels for structures, building foundations, column grids, and floor levels, including those required for mechanical and electrical work. Transfer survey markings and elevations for use with control lines and levels.

F. Record Log: Maintain a log of layout control work. Record deviations from required lines and levels. Include beginning and ending dates and times of surveys, weather conditions, name and duty of each survey party member, and types of instruments and tapes used. Make the log available for reference by Architect.

3.4 INSTALLATION

A. Refer to Section 01 60 00 - Product Requirements for product Installation requirements.

B. General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
1. Make vertical work plumb and make horizontal work level.
2. Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
3. Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
4. Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 inches in unoccupied spaces.

C. Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.

D. Install products at the time and under conditions that will ensure the best possible results.
Maintain conditions required for product performance until Substantial Completion.

E. Conduct construction operations so no part of the Work is subjected to damaging operations or loading in excess of that expected during normal conditions of occupancy.

F. Sequence the Work and allow adequate clearances to accommodate movement of construction items on site and placement in permanent locations.

G. Tools and Equipment: Do not use tools or equipment that produce harmful noise levels.

H. Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.

I. Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
1. Mounting Heights: Where mounting heights are not indicated, mount components at heights directed by Architect.
2. Allow for building movement, including thermal expansion and contraction.
3. Coordinate installation of anchorages. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

J. Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.

K. Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.

3.5 SELECTIVE DEMOLITION

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. 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.

3.6 CUTTING AND PATCHING

A. Examine surfaces to be cut and patched and conditions under which cutting and patching are to be performed.
1. Compatibility: Before patching, verify compatibility with and suitability of substrates, including compatibility with in-place finishes or primers.
2. Proceed with installation only after unsafe or unsatisfactory conditions have been corrected.

B. Cutting and Patching, General: Employ skilled workers to perform cutting and patching.
Proceed with cutting and patching at the earliest feasible time, and complete without delay.
1. Cut in-place construction to provide for installation of other components or performance of other construction, and subsequently patch as required to restore surfaces to their original condition.

C. Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.

D. Temporary Support: Provide temporary support of work to be cut.

E. Protection: Protect in-place construction during cutting and patching to prevent damage.

Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.

F. Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
1. In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
2. Finished Surfaces: Cut or drill from the exposed or finished side into concealed surfaces.
3. Concrete and Masonry: Cut using a cutting machine, such as an abrasive saw or a diamond-core drill. Do not damage or cut any steel reinforcing unless specifically allowed by the approved cutting and patching proposal.
4. Structure: Do not damage or cut any structural framing unless specifically allowed by the approved cutting and patching proposal
5. Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
6. Proceed with patching after construction operations requiring cutting are complete.

G. Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
1. Inspection: Where feasible, test and inspect patched areas after completion to demonstrate physical integrity of installation.
2. Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
a. Clean piping, conduit, and similar features before applying paint or other finishing materials.
b. Restore damaged pipe covering to its original condition.
3. Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
a. Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
1. Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
2. Exterior Building Enclosure: Maintain exterior enclosure in a weathertight condition and ensures thermal and moisture integrity of building enclosure.
3.

H. Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

I. Painting: Where patching occurs in previously painted surface, provide appropriate prime coat followed by first finish coat of paint. Provide final finish coat over entire area containing patch; for continuous surface extend to nearest vertical break or intersection, for an assembly refinish entire unit. Except where indicated otherwise, finish in sheen and color to match existing.

3.7 PROGRESS CLEANING

A. General: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully.
1. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.
2. Do not hold waste materials more than seven days during normal weather or three days if the temperature is expected to rise above 80 deg F.
3. Containerize hazardous and unsanitary waste materials separately from other waste.
Mark containers appropriately and dispose of legally, according to regulations.
a. Use containers intended for holding waste materials of type to be stored.
4. Coordinate progress cleaning for joint-use areas where Contractor and other contractors are working concurrently.

B. Site: Maintain Project site free of waste materials and debris.

C. Work Areas: Clean areas where work is in progress to the level of cleanliness necessary for proper execution of the Work.
1. Remove liquid spills promptly.
2. Where dust would impair proper execution of the Work, broom-clean or vacuum the entire work area, as appropriate.

D. Installed Work: Keep installed work clean. Clean installed surfaces according to written instructions of manufacturer or fabricator of product installed, using only cleaning materials specifically recommended. If specific cleaning materials are not recommended, use cleaning materials that are not hazardous to health or property and that will not damage exposed surfaces.

E. Concealed Spaces: Remove debris from concealed spaces before enclosing the space.

F. Exposed Surfaces in Finished Areas: Clean exposed surfaces and protect as necessary to ensure freedom from damage and deterioration at time of Substantial Completion.

G. Waste Disposal: Do not bury or burn waste materials on-site. Do not wash waste materials down sewers or into waterways. Comply with waste disposal requirements in Section 01 74 19 - Construction Waste Management and Disposal.

H. During handling and installation, clean and protect construction in progress and adjoining materials already in place. Apply protective covering where required to ensure protection from damage or deterioration at Substantial Completion.

I. Clean and provide maintenance on completed construction as frequently as necessary through the remainder of the construction period. Adjust and lubricate operable components to ensure operability without damaging effects.

J. Limiting Exposures: Supervise construction operations to assure that no part of the construction, completed or in progress, is subject to harmful, dangerous, damaging, or otherwise deleterious exposure during the construction period.

3.8 STARTING AND ADJUSTING

A. Start equipment and operating components to confirm proper operation. Remove malfunctioning units, replace with new units, and retest.
B. Adjust equipment for proper operation. Adjust operating components for proper operation without binding.

C. Test each piece of equipment to verify proper operation. Test and adjust controls and safeties.

Replace damaged and malfunctioning controls and equipment.

D. Manufacturer's Field Service: If a factory-authorized service representative is required to inspect field assembled components and equipment installation, comply with qualification requirements in Section 01 40 00 - Quality Requirements.

3.9 PROTECTION OF INSTALLED CONSTRUCTION

A. Refer to Section 01 60 00 - Product Requirements for product protection requirements.

B. Provide final protection and maintain conditions that ensure installed Work is without damage or deterioration at time of Substantial Completion.

C. Comply with manufacturer's written instructions for temperature and relative humidity.

3.10 CORRECTION OF THE WORK

A. Repair or remove and replace defective construction. Restore damaged substrates and finishes. Comply with requirements for "Cutting and Patching."
1. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment.
B. Restore permanent facilities used during construction to their specified condition.

C. Remove and replace damaged surfaces that are exposed to view if surfaces cannot be repaired without visible evidence of repair.

D. Repair components that do not operate properly. Remove and replace operating components that cannot be repaired.

E. Remove and replace chipped, scratched, and broken glass or reflective surfaces.

END OF SECTION 01 73 00

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for the following:
1. Salvaging nonhazardous waste.
2. Recycling nonhazardous waste.
3. Disposing of nonhazardous waste.

1.3 DEFINITIONS

A. Construction Waste: Building, structure, and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.

B. Demolition Waste: Building, structure, and site improvement materials resulting from demolition operations.

C. Disposal: Removal of demolition or construction waste and subsequent salvage, sale, recycling, or deposit in landfill, incinerator acceptable to authorities having jurisdiction, or designated spoil areas on Owner's property.

D. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.

F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 MATERIALS OWNERSHIP

A. Unless otherwise indicated, demolition and construction waste becomes property of Contractor.

1.5 ACTION SUBMITTALS

A. Waste Management Plan: Submit plan within 30 days of date established for the Notice to Proceed.

1.6 INFORMATIONAL SUBMITTALS

A. Waste Reduction Progress Reports: Concurrent with each Application for Payment, submit report. Use Forms approved by Architect. Include the following information:
1. Material category.
2. Generation point of waste.
3. Total quantity of waste in tons (tonnes).
4. Quantity of waste salvaged, both estimated and actual in tons (tonnes).
5. Quantity of waste recycled, both estimated and actual in tons (tonnes).
6. Total quantity of waste recovered (salvaged plus recycled) in tons (tonnes).
7. Total quantity of waste recovered (salvaged plus recycled) as a percentage of total waste.

B. Waste Reduction Calculations: Before request for Substantial Completion, submit calculated end-of-Project rates for salvage, recycling, and disposal as a percentage of total waste generated by the Work.

C. Records of Donations: Indicate receipt and acceptance of salvageable waste donated to individuals and organizations. Indicate whether organization is tax exempt.

D. Records of Sales: Indicate receipt and acceptance of salvageable waste sold to individuals and organizations. Indicate whether organization is tax exempt.

E. Recycling and Processing Facility Records: Indicate receipt and acceptance of recyclable waste by recycling and processing facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

F. Landfill and Incinerator Disposal Records: Indicate receipt and acceptance of waste by landfills and incinerator facilities licensed to accept them. Include manifests, weight tickets, receipts, and invoices.

G. Qualification Data: For waste management coordinator and refrigerant recovery technician.

H. Statement of Refrigerant Recovery: Signed by refrigerant recovery technician responsible for recovering refrigerant, stating that all refrigerant that was present was recovered and that recovery was performed according to EPA regulations. Include name and address of technician and date refrigerant was recovered.

I. Refrigerant Recovery: Comply with requirements in Section 02 41 19 - Selective Demolition for refrigerant recovery submittals.

1.7 QUALITY ASSURANCE

A. Waste Management Coordinator Qualifications: Experienced firm, or individual employed and assigned by General Contractor, with a record of successful waste management coordination of projects with similar requirements. Superintendent may serve as Waste Management Coordinator.

B. Regulatory Requirements: Comply with transportation and disposal regulations of authorities having jurisdiction.

C. Waste Management Conference(s): Conduct conference(s) at Project site to comply with requirements in Section 01 31 00 - Project Management and Coordination. Review methods and procedures related to waste management including, but not limited to, the following:
1. Review and discuss waste management plan including responsibilities of each contractor and waste management coordinator.
2. Review requirements for documenting quantities of each type of waste and its disposition.
3. Review and finalize procedures for materials separation and verify availability of containers and bins needed to avoid delays.
4. Review procedures for periodic waste collection and transportation to recycling and disposal facilities.
5. Review waste management requirements for each trade.

1.8 WASTE MANAGEMENT PLAN

A. General: Develop a waste management plan according to requirements in this Section. Plan shall consist of waste identification, waste reduction work plan, and cost/revenue analysis. Distinguish between demolition and construction waste. Indicate quantities by weight or volume, but use same units of measure throughout waste management plan.

B. Waste Identification: Indicate anticipated types and quantities of demolition and construction waste generated by the Work. Use Forms approved by Architect. Include estimated quantities and assumptions for estimates.

C. Waste Reduction Work Plan: List each type of waste and whether it will be salvaged, recycled, or disposed of in landfill or incinerator. Use Forms approved by Architect. Include points of waste generation, total quantity of each type of waste, quantity for each means of recovery, and handling and transportation procedures.
1. Salvaged Materials for Reuse: For materials that will be salvaged and reused in this Project, describe methods for preparing salvaged materials before incorporation into the Work.
2. Salvaged Materials for Sale: For materials that will be sold to individuals and organizations, include list of their names, addresses, and telephone numbers.
3. Salvaged Materials for Donation: For materials that will be donated to individuals and organizations, include list of their names, addresses, and telephone numbers.
4. Recycled Materials: Include list of local receivers and processors and type of recycled materials each will accept. Include names, addresses, and telephone numbers.
5. Disposed Materials: Indicate how and where materials will be disposed of. Include name, address, and telephone number of each landfill and incinerator facility.
6. Handling and Transportation Procedures: Include method that will be used for separating recyclable waste including sizes of containers, container labeling, and designated location where materials separation will be performed.

D. Cost/Revenue Analysis: Indicate total cost of waste disposal as if there were no waste management plan and net additional cost or net savings resulting from implementing waste management plan. Use Forms approved by Architect. Include the following:
1. Total quantity of waste.
2. Estimated cost of disposal (cost per unit). Include transportation and tipping fees and cost of collection containers and handling for each type of waste.
3. Total cost of disposal (with no waste management).
4. Revenue from salvaged materials.
5. Revenue from recycled materials.
6. Savings in transportation and tipping fees by donating materials.
7. Savings in transportation and tipping fees that are avoided.
8. Handling and transportation costs. Include cost of collection containers for each type of waste.
9. Net additional cost or net savings from waste management plan.

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Contents:
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G016

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General: Achieve end-of-Project rates for salvage/recycling of 50 percent by weight of total nonhazardous solid waste generated by the Work. Practice efficient waste management in the use of materials in the course of the Work. Use all reasonable means to divert construction and demolition waste from landfills and incinerators. Facilitate recycling and salvage of materials, including the following:
1. Demolition Waste:
   a. Asphalt paving.
   b. Concrete.
   c. Concrete reinforcing steel.
2. Construction Waste:
   a. Lumber.
   b. Wood sheet materials.
   c. Wood trim.
   d. Metals.
   e. Roofing.
   f. Insulation.
   g. Carpet and pad.
   h. Gypsum board.
   i. Piping.
   j. Electrical conduit.
   k. Packaging: Regardless of salvage/recycle goal indicated in "General" Paragraph above, salvage or recycle 100 percent of the following uncontaminated packaging materials:
      1. Paper.
      2) Cardboard.
      3) Boxes.
      4) Plastic sheet and film.
      5) Polystyrene packaging.
      6) Wood crates.
      7) Wood pallets.
      8) Plastic pails.
   l. Construction Office Waste: Regardless of salvage/recycle goal indicated in "General" Paragraph above, salvage or recycle 100 percent of the following construction office waste materials:
      1. Paper.
      2) Aluminum cans.
      3) Glass containers.

PART 3 EXECUTION

3.1 PLAN IMPLEMENTATION

A. General: Implement approved waste management plan. Provide handling, containers, storage, signage, transportation, and other items as required to implement waste management plan during the entire duration of the Contract.

B. Waste Management Coordinator: Engage a waste management coordinator to be responsible for implementing, monitoring, and reporting status of waste management work plan.

C. Training: Train workers, subcontractors, and suppliers on proper waste management procedures, as appropriate for the Work.
1. Distribute waste management plan to everyone concerned within three days of submittal return.
2. Distribute waste management plan to entities when they first begin work on-site. Review plan procedures and locations established for salvage, recycling, and disposal.

D. Site Access and Temporary Controls: Conduct waste management operations to ensure minimum interference with roads, streets, walks, walkways, and other adjacent occupied and used facilities.
1. Designate and label specific areas on Project site necessary for separating materials that are to be salvaged and recycled.

3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

A. General: Recycle paper and beverage containers used by on-site workers.

B. Recycling Incentives: Revenues, savings, rebates, tax credits, and other incentives received for recycling waste materials shall accrue to Owner.

C. Preparation of Waste: Prepare and maintain recyclable waste materials according to recycling or reuse facility requirements. Maintain materials free of dirt, adhesives, solvents, petroleum contamination, and other substances deleterious to the recycling process.

D. Procedures: Separate recyclable waste from other waste materials, trash, and debris. Separate recyclable waste by type at Project site to the maximum extent practical according to approved construction waste management plan.
1. Provide appropriately marked containers or bins for controlling recyclable waste until removed from Project site. Include list of acceptable and unacceptable materials at each container and bin.
   a. Inspect containers and bins for contamination and remove contaminated materials if found.
2. Stockpile processed materials on-site without intermixing with other materials. Place, grade, and shape stockpiles to drain surface water. Cover to prevent windblown dust.
3. Stockpile materials away from construction area. Do not store within drip line of remaining trees.
4. Store components off the ground and protect from the weather.
5. Remove recyclable waste from Owner's property and transport to recycling receiver or processor as often as required to prevent overfilling bins.

3.3 RECYCLING CONSTRUCTION WASTE

A. Packaging:
1. Cardboard and Boxes: Break down packaging into flat sheets. Bundle and store in a dry location.
2. Polystyrene Packaging: Separate and bag materials.
3. Pallets: As much as possible, require deliveries using pallets to remove pallets from Project site. For pallets that remain on-site, break down pallets into component wood pieces and comply with requirements for recycling wood.
4. Crates: Break down crates into component wood pieces and comply with requirements for recycling wood.

B. Wood Materials:
1. Clean Cut-Offs of Lumber: Grind or chip into small pieces.
2. Clean Sawdust: Bag sawdust that does not contain painted or treated wood.

C. Gypsum Board: Stack large clean pieces on wood pallets or in container and store in a dry location.
1. Clean Gypsum Board: Grind scraps of clean gypsum board using small mobile chipper or hammer mill. Screen out paper after grinding.

D. Paint: Seal containers and store by type.

3.4 DISPOSAL OF WASTE

A. General: Except for items or materials to be salvaged or recycled, remove waste materials from Project site and legally dispose of them in a landfill or incinerator acceptable to authorities having jurisdiction.
1. Except as otherwise specified, do not allow waste materials that are to be disposed of accumulate on-site.
2. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.

B. General: Except for items or materials to be salvaged or recycled, remove waste materials and legally dispose of at designated spoil areas on Owner's property.

C. Burning: Do not burn waste materials.

END OF SECTION 01 74 19

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes administrative and procedural requirements for contract closeout, including, but not limited to, the following:
1. Substantial Completion procedures.
2. Final completion procedures.
3. Warranties.
4. Final cleaning.
5. Repair of the Work.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of cleaning agent.

B. Contractor's List of Incomplete Items: Initial submittal at Substantial Completion.

C. Certified List of Incomplete Items: Final submittal at final completion.

1.4 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

C. Field Report: For pest control inspection.

1.5 MAINTENANCE MATERIAL SUBMITTALS

A. Schedule of Maintenance Material Items: For maintenance material submittal items specified in other Sections.

1.6 SUBSTANTIAL COMPLETION PROCEDURES

A. Contractor's List of Incomplete Items: Prepare and submit a list of items to be completed and corrected (Contractor's punch list), indicating the value of each item on the list and reasons why the Work is incomplete.

B. Submittals Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Certificates of Release: Obtain and submit releases from authorities having jurisdiction permitting Owner unrestricted use of the Work and access to services and utilities. Include occupancy permits, operating certificates, and similar releases.
2. Submit closeout submittals specified in other Division 01 Sections, including project record documents, operation and maintenance manuals, damage or settlement surveys, property surveys, and similar final record information.
3. Submit closeout submittals specified in individual Sections, including specific warranties, workmanship bonds, maintenance service agreements, final certifications, and similar documents.
4. Submit maintenance material submittals specified in individual Sections, including tools, spare parts, extra materials, and similar items, and deliver to location designated by Architect. Label with manufacturer's name and model number.
   a. Schedule of Maintenance Material Items: Prepare and submit schedule of maintenance material submittal items, including name and quantity of each item and name and number of related Specification Section. Obtain Architect's signature for receipt of submittals.
5. Submit testing, adjusting, and balancing records.
6. Submit changeover information related to Owner's occupancy, use, operation, and maintenance.

C. Procedures Prior to Substantial Completion: Complete the following a minimum of 10 days prior to requesting inspection for determining date of Substantial Completion. List items below that are incomplete at time of request.
1. Advise Owner of pending insurance changeover requirements.
2. Make final changeover of permanent locks and deliver keys to Owner. Advise Owner's personnel of changeover in security provisions.
3. Complete startup and testing of systems and equipment.
4. Perform preventive maintenance on equipment used prior to Substantial Completion.
5. Instruct Owner's personnel in operation, adjustment, and maintenance of products, equipment, and systems.
6. Advise Owner of changeover in utility services.
7. Participate with Owner in conducting inspection and walkthrough with local emergency responders.
8. Terminate and remove temporary facilities from Project site, along with mockups, construction tools, and similar elements.
9. Complete final cleaning requirements.
10. Touch up paint and otherwise repair and restore marred exposed finishes to eliminate visual defects.

D. Inspection: Submit a written request for inspection to determine Substantial Completion a minimum of 10 days prior to date the Work will be completed and ready for final inspection and tests. On receipt of request, Architect and Construction Manager will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare the Certificate of Substantial Completion after inspection or will notify Contractor of items, either on Contractor's list or additional items identified by Architect, that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.
2. Results of completed inspection will form the basis of requirements for final completion.

1.7 FINAL COMPLETION PROCEDURES

A. Submittals Prior to Final Completion: Before requesting final inspection for determining final completion, complete the following:
1. Submit a final Application for Payment according to Section 01 29 00 - Payment Procedures.
2. Certified List of Incomplete Items: Submit certified copy of Architect's Substantial Completion inspection list of items to be completed or corrected (punch list), endorsed and dated by Architect. Certified copy of the list shall state that each item has been completed or otherwise resolved for acceptance.
3. Certificate of Insurance: Submit evidence of final, continuing insurance coverage complying with insurance requirements.
4. Submit pest-control final inspection report.
5. Submit final completion photographic documentation.

B. Inspection: Submit a written request for final inspection to determine acceptance a minimum of 10 days prior to date the work will be completed and ready for final inspection and tests. On receipt of request, Architect and Construction Manager will either proceed with inspection or notify Contractor of unfulfilled requirements. Architect will prepare a final Certificate for Payment after inspection or will notify Contractor of construction that must be completed or corrected before certificate will be issued.
1. Request reinspection when the Work identified in previous inspections as incomplete is completed or corrected.

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

A. Organization of List: Include name and identification of each space and area affected by construction operations for incomplete items and items needing correction including, if necessary, areas disturbed by Contractor that are outside the limits of construction.
1. Organize list of spaces in sequential order, starting with exterior areas first.
2. Organize items applying to each space by major element, including categories for ceiling, individual walls, floors, equipment, and building systems.
3. Include the following information at the top of each page:
   a. Project name.
   b. Date.
   c. Name of Architect and Construction Manager.
   d. Name of Contractor.
   e. Page number.
4. Submit list of incomplete items in the following format:
   a. MS Excel electronic file. Architect, through Construction Manager, will return annotated file.
   b. PDF electronic file. Architect, through Construction Manager, will return annotated file.
   c. Web-based project software upload. Utilize software feature for creating and updating list of incomplete items (punch list).
   d. Three paper copies. Architect, through Construction Manager, will return two copies.

1.9 SUBMITTAL OF PROJECT WARRANTIES

A. Time of Submittal: Submit written warranties on request of Architect for designated portions of the Work where warranties are indicated to commence on dates other than date of Substantial Completion, or when delay in submittal of warranties might limit Owner's rights under warranty.

B. Partial Occupancy: Submit properly executed warranties within 15 days of completion of designated portions of the Work that are completed and occupied or used by Owner during construction period by separate agreement with Contractor.

C. Organize warranty documents into an orderly sequence based on the table of contents of Project Manual.

D. Warranty Electronic File: Provide warranties and bonds in PDF format. Assemble complete warranty and bond submittal package into a single electronic PDF file with bookmarks enabling navigation to each item. Provide bookmarked table of contents at beginning of document.
1. Submit on digital media acceptable to Architect.

E. Warranties in Paper Form:
1. Bind warranties and bonds in heavy-duty, three-ring, vinyl-covered, loose-leaf binders, thickness as necessary to accommodate contents, and sized to receive 8-1/2 by 11 inch paper.
2. Provide heavy paper dividers with plastic-covered tabs for each separate warranty. Mark tab to identify the product or installation. Provide a typed description of the product or installation, including the name of the product and the name, address, and telephone number of Installer.
3. Identify each binder on the front and spine with the typed or printed title "WARRANTIES," Project name, and name of Contractor.

F. Provide additional copies of each warranty to include in operation and maintenance manuals.

PART 2 PRODUCTS

2.1 MATERIALS

A. Cleaning Agents: Use cleaning materials and agents recommended by manufacturer or fabricator of the surface to be cleaned. Do not use cleaning agents that are potentially hazardous to health or property or that might damage finished surfaces.

PART 3 EXECUTION

3.1 FINAL CLEANING

A. General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.

B. Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
1. Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
   a. Clean Project site, yard, and grounds, in areas disturbed by construction activities, including landscape development areas, of rubbish, waste material, litter, and other foreign substances.
   b. Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
   c. Rake grounds that are not planted, mulched, or paved to a smooth, even-textured surface.
   d. Remove tools, construction equipment, machinery, and surplus material from Project site.
   e. Remove snow and ice to provide safe access to building.
   f. Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
   g. Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
   h. Sweep concrete floors broom clean in unoccupied spaces.
   i. Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
   j. Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
   k. Remove labels that are not permanent.
   l. Wipe surfaces of mechanical and electrical equipment, elevator equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
   m. Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
   n. Replace disposable air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
   o. Clean ducts, blowers, and coils if units were operated without filters during construction or that display contamination with particulate matter on inspection.
   p. Clean HVAC system in compliance with NADCA ACR. Provide written report on completion of cleaning.
   q. Clean luminaires, lamps, globes, and reflectors to function with full efficiency.
   r. Leave Project clean and ready for occupancy.

C. Construction Waste Disposal: Comply with waste disposal requirements in Section 01 74 19 - Construction Waste Management and Disposal.

3.2 REPAIR OF THE WORK

A. Complete repair and restoration operations before requesting inspection for determination of Substantial Completion.

B. Repair, or remove and replace, defective construction. Repairing includes replacing defective parts, refinishing damaged surfaces, touching up with matching materials, and properly adjusting operating equipment. Where damaged or worn items cannot be repaired or restored, provide replacements. Remove and replace operating components that cannot be repaired. Restore damaged construction and permanent facilities used during construction to specified condition.
1. Remove and replace chipped, scratched, and broken glass, reflective surfaces, and other damaged transparent materials.
2. Touch up and otherwise repair and restore marred or exposed finishes and surfaces.
   Replace finishes and surfaces that that already show evidence of repair or restoration.
   a. Do not paint over "UL" and other required labels and identification, including mechanical and electrical nameplates. Remove paint applied to required labels and identification.
3. Replace parts subject to operating conditions during construction that may impede operation or reduce longevity.
4. Replace burned-out bulbs, bulbs noticeably dimmed by hours of use, and defective and noisy starters in fluorescent and mercury vapor fixtures to comply with requirements for new fixtures.

END OF SECTION 01 77 00

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: AIFlooring TerraQuartz (color: salt & pepper) -or- AIFlooring 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.

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.

Consultant:
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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. Endicott, (402) 729-3315, www.endicott.com (Iron Spot Brick), or as approved by architect
   b. Belden Brick Company, (330) 451-2031, www.beldenbrick.com (White Brick), or as approved by architect
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: "Alaska White Veloour" or "Manganese Ironspot, Velour" as noted on Exterior Elevations
5. Provide special shapes where required.

C. Mortar Materials:
1. Portland cement: ASTM C150, Type I or III, natural color.
2. Masonry cement: ASTM C91, Type indicated, natural color.
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. SGS #60A "White" by Solomon Grind Services (White)
   b. SM #750 "Silverstone" by Spec Mix (Iron Spot)

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 corner and Tee units.
   a. Single Wythe masonry: Standard single 9 gage side and cross rods, #220 Ladder-Mesh.
3. Anchoring devices: Provide strap anchors, inserts, bolts and [illegible] size indicated.
   a. CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel [illegible]
   b. CMU to structural steel: H&B - VBT - Vee Byne-Tie (Anchor Rods). Tie) Used In Conjunction With H&B #359 Weld-on Ties
4. Masonry Veneer To Woof Framing: H&B - [illegible]-10MS 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 [illegible] (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. Do not 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. Sample area acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to weather for a period of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other [illegible] parts. Damaged materials and work replaced at Contractor's expense.
3. Dry clean exposed surfaces to remove [illegible] particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
4. Presoak exposed masonry surfaces to be [illegible] with water and flush off loose mortar and dirt.
5. Apply cleaning solutions and clean [illegible] in accordance with the cleaning material manufacturer's cleaning instructions.
6. Muriatic acid cleaning of [illegible] 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 stock, [illegible] grade A36.
   b. Corner connector angles shall be 2 1/2" x 2 1/2" [illegible] gate.
   c. Gate hinges shall be a self-closing, adjustable [illegible] hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
   d. Gate stop shall have a rubber cushioned top and be affixed to the active gate.
   e. All corners and joints shall be [illegible] and outside joints ground smooth.
   f. All welding spatter shall be removed before sand blasting.
3. Finish
   a. Patio railing shall be [illegible] 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

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

NOT USED
NOT USED
NOT USED

Consultant:
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G018

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:
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. 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:
Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer

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.
4. Touch-up shop finished materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".

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 unspliced 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 finish and integral color 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 deleterious amounts of impurities.

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 membrane, flashings 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 as undamaged 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.

SECTION 07512 - ROOFING SYSTEM REPAIR

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

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.

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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, (480) 528-6923, Jeff Kelly, jeff.kelly@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.3.1Installation

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 accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at the 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 crickets at edges as required to provide positive proper drainage.
b. Install and secure in parallel alignment 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.

NOT USED

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.

SECTION 076113 - SHEET METAL WALL PANELS

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. Steel joists: Section 05200 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-AZ50: 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 project 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 profile:
1. Shadow Rib: 3 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.

3.1 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.

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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 Silprul 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

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).

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."

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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 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 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
b. Oldcastle
(1.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
c. US Aluminum
(1.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
d. EFCO
(1.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
e. Wausau
(1.) 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 and Structural Drawings
b. Importance Factor: (1.00)
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000 and Structural Drawings

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 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.

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

2.2 In-Line Side Sliding Automatic Window and Air Curtain

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

• Quikserv Custom Automatic Side Sliding Window (Model: SS-4035-E-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 41-1/2"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 & moving panel, sidelights and transom
4. 'CHIPOTLE' package includes pre-wired ambient 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

NOT USED

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07/25/24	BID SET
10/31/24	IFC SET

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Contents:
ARCHITECTURAL SPECIFICATIONS

G021

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 sync operation with opening and closing of window.

B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp branch circuit, single phase 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 with AA300 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.

NOT USED

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: 0.25-0.39
      i. Shading Coefficient: 0.43-0.45
      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 Specification 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, Kerapoxy IEG 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, escess 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.

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.

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ARCHITECTURAL SPECIFICATIONS

G022

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.

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.

NOT USED

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07/25/24	BID SET
10/31/24	IFC SET

Revisions:

Project No.
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Contents:
ARCHITECTURAL SPECIFICATIONS

G023

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-pick-up 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 temperature is below 3 C.
- Do not apply when rain is forecast.
- Do not apply when temperature is near or below the dew point or rain is forecast within 1 hour.
- Do not thin more than 5% by volume 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.

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 V51-90 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, Vestibule 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 colors including Chipotle's custom "charcoal" color match to prototypical window mullion system.

2.1 Manufacturers:

A. Architectural Fabrication, Inc. – Manufacturer is located at 1212 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 a minimum 10 years experience, and only when approved by Arch PM and Chipotle DM.
1. Awnex, Contact: Katie Dion, P: 800-968-2930 x151, E: katie@awnexinc.com
2. Uni-Structures, Contact: Dan Hendricks, 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 5" high. 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 AAMA 2604 (FGIA AAMA 2604). Steel shall be commercially blasted, then coated with a zinc rich primer, and finally the steel coated with 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 plumb, level 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

NOT USED
NOT USED
NOT USED

Consultant:
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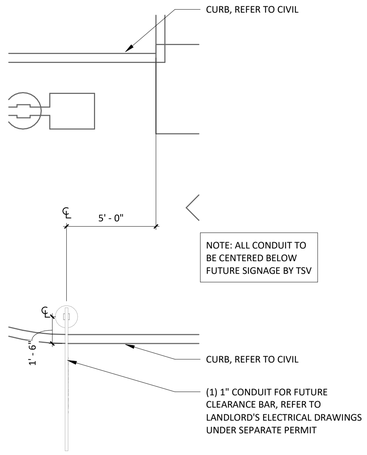
Project No.
24CMGX.0026.000

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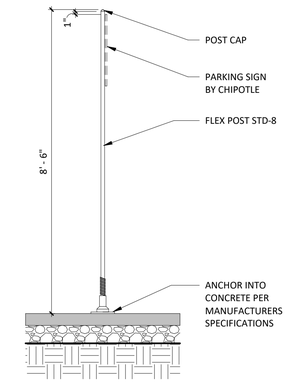
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GENERAL NOTES

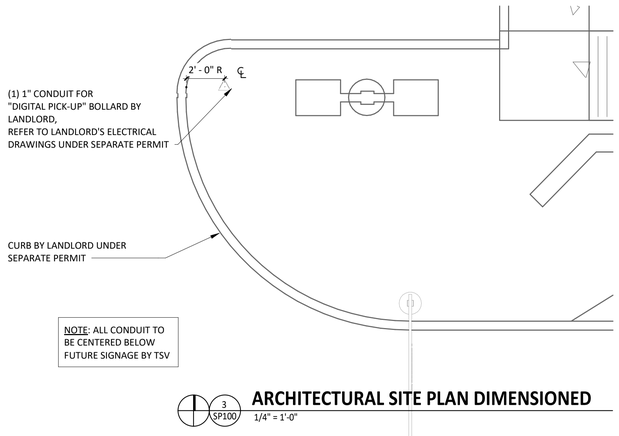
1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. IF THERE IS A DISCREPANCY CONTACT ARCHITECT IMMEDIATELY.
3. ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING AND DUMPSTER ENCLOSURE ARE BY LANDLORD UNDER A SEPARATE PERMIT U.N.O.
4. LOCATION OF EXTERIOR SIGNAGE ELEMENTS SHOWN FOR REFERENCE ONLY. DESIGN INTENT PLAN, SIGNAGE VENDOR TO COORDINATE WITH CHIPOTLE AND CHIPOTLE'S SIGNAGE VENDOR FOR FINAL LOCATION.



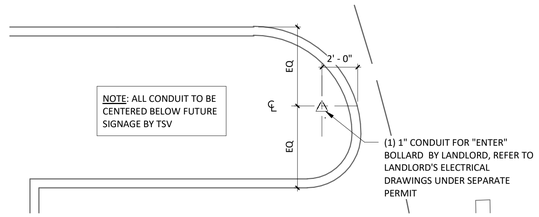
4 SP100 **ARCHITECTURAL SITE PLAN DIMENSIONED**
1/4" = 1'-0"



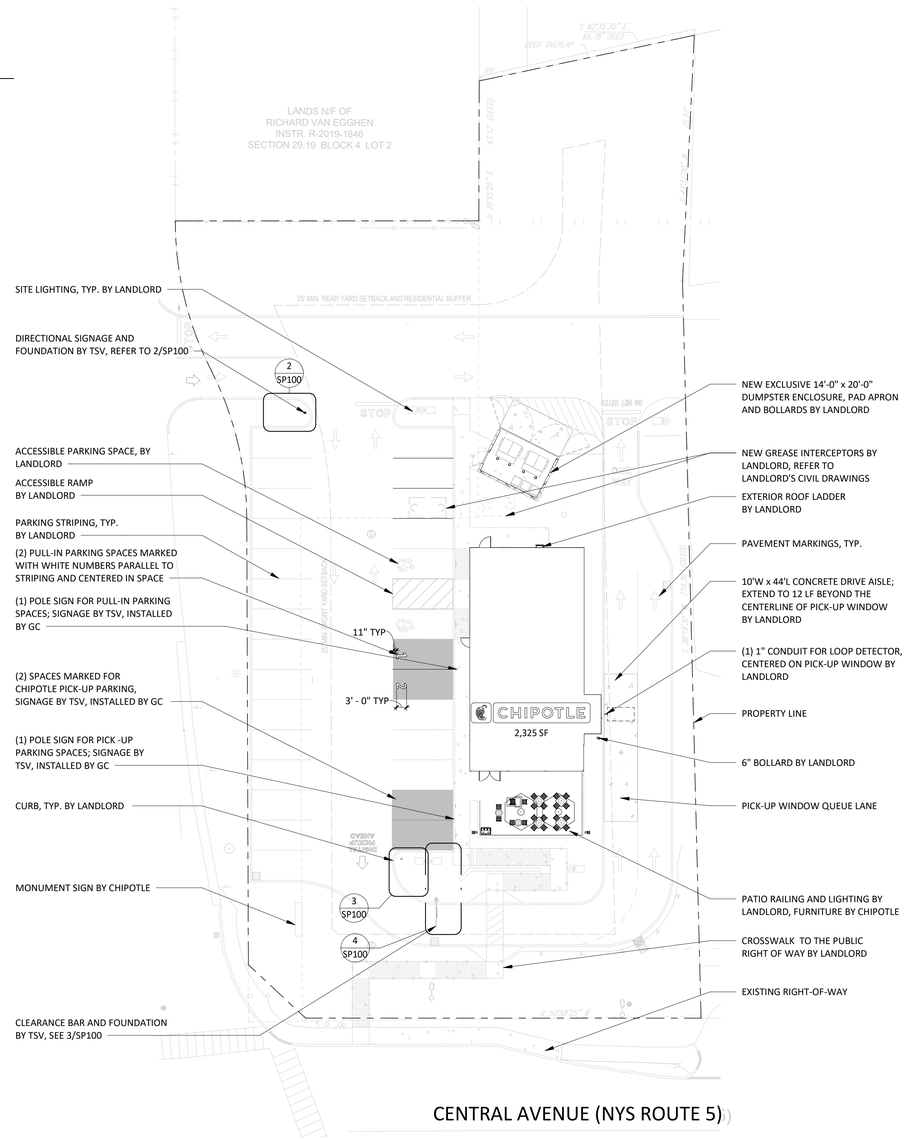
6 SP100 **TYP. SIGN POST DETAIL**
1/2" = 1'-0"



3 SP100 **ARCHITECTURAL SITE PLAN DIMENSIONED**
1/4" = 1'-0"



2 SP100 **ARCHITECTURAL SITE PLAN DIMENSIONED**
1/4" = 1'-0"



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

FOR REFEENCE ONLY, SEE LANDLORD SHELL AND CIVIL PERMIT SETS FOR ADDITIONAL INFORMATION.

FOR REFERENCE ONLY

(CORE AND SHELL UNDER SEPARATE PERMIT)

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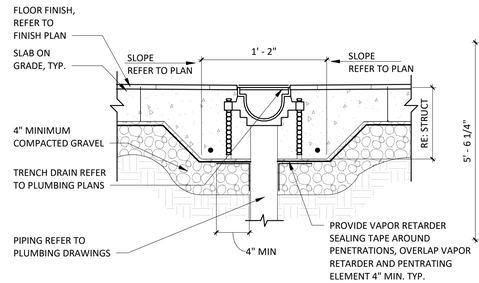
1	03/25/2024	ADDENDUM #1

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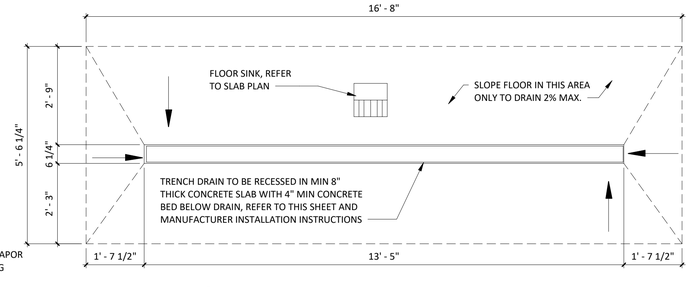
Project No.
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Contents:
ARCHITECTURAL SITE PLAN

SP100



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



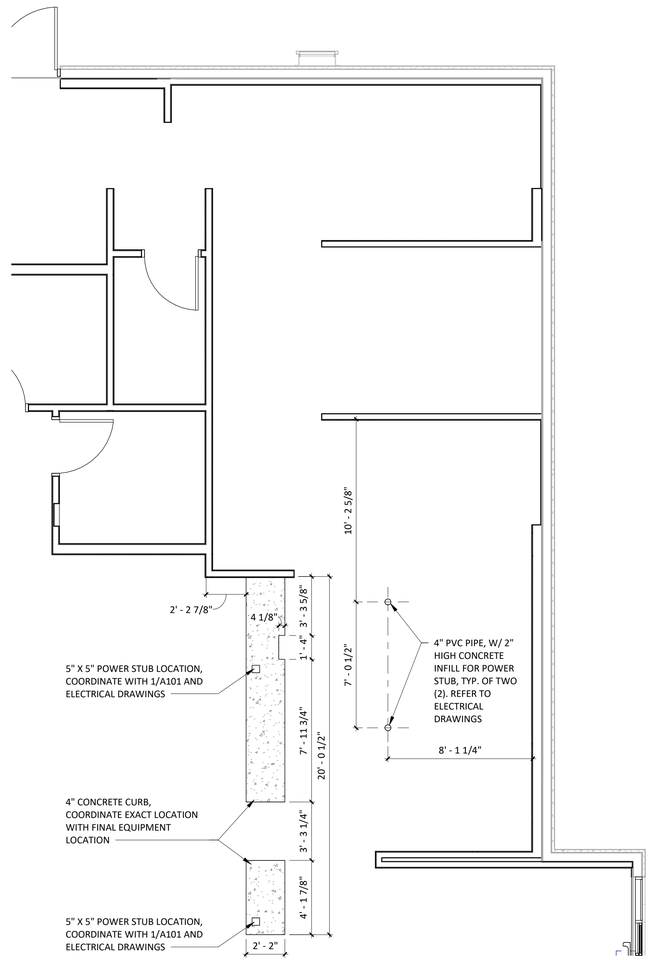
5 A101 **TRENCH DRAIN PLAN DETAIL**
1/2" = 1'-0"

PLUMBING LEGEND

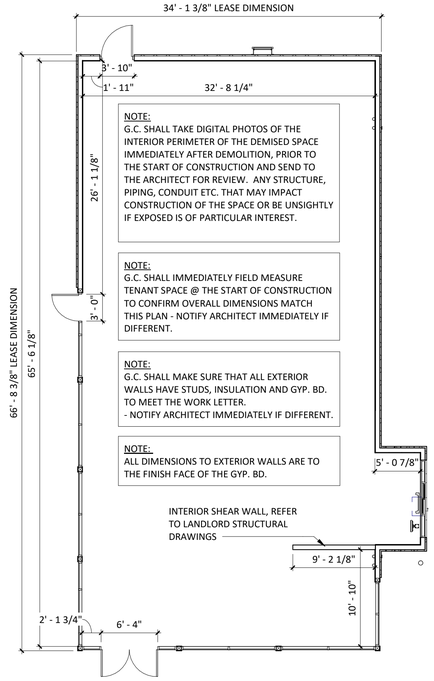
	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

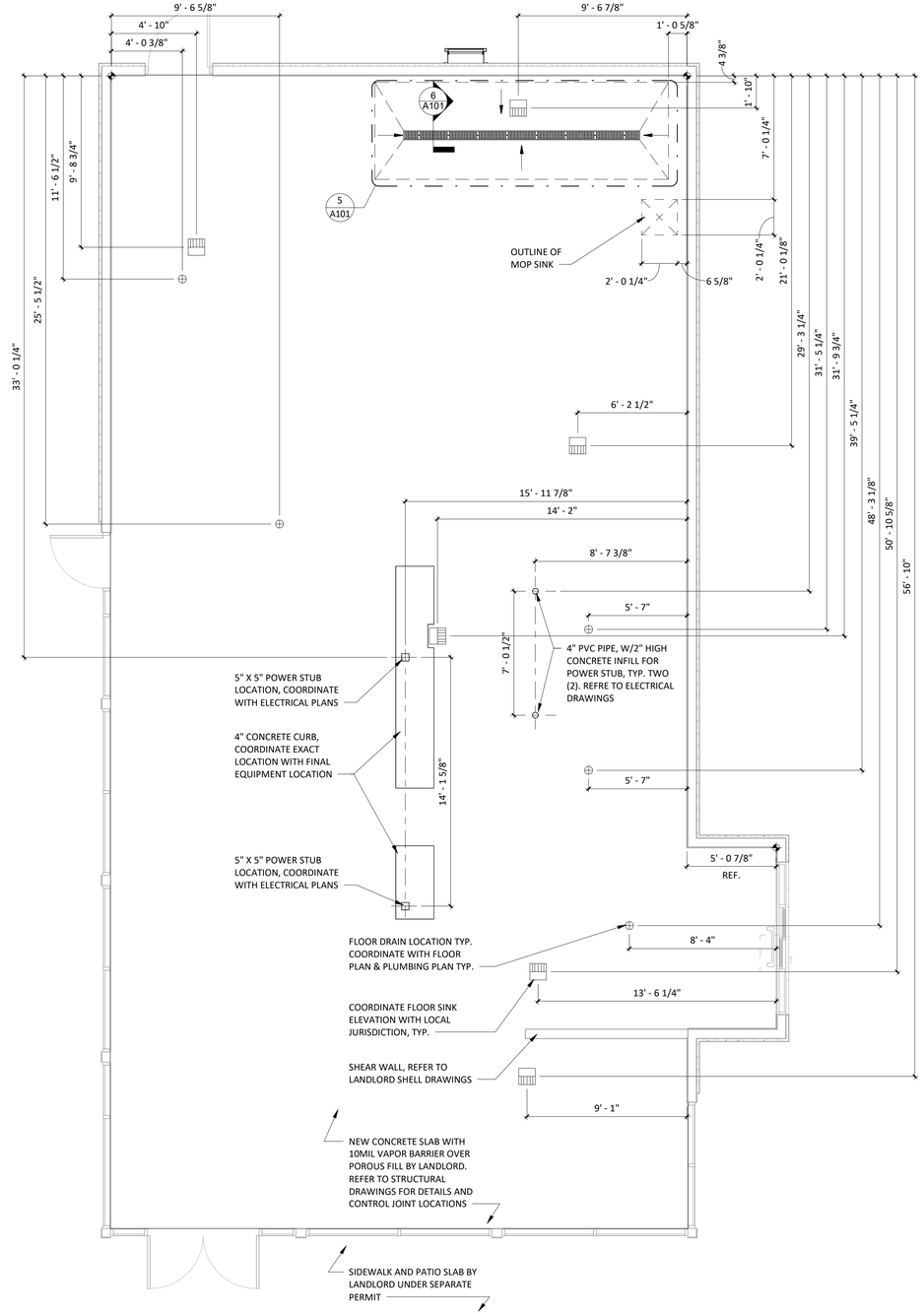
1.	VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.	ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3.	ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS 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.



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



2 A101 **DEMISED PREMISES PLAN**
1/8" = 1'-0"



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

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SLAB WORK PLAN

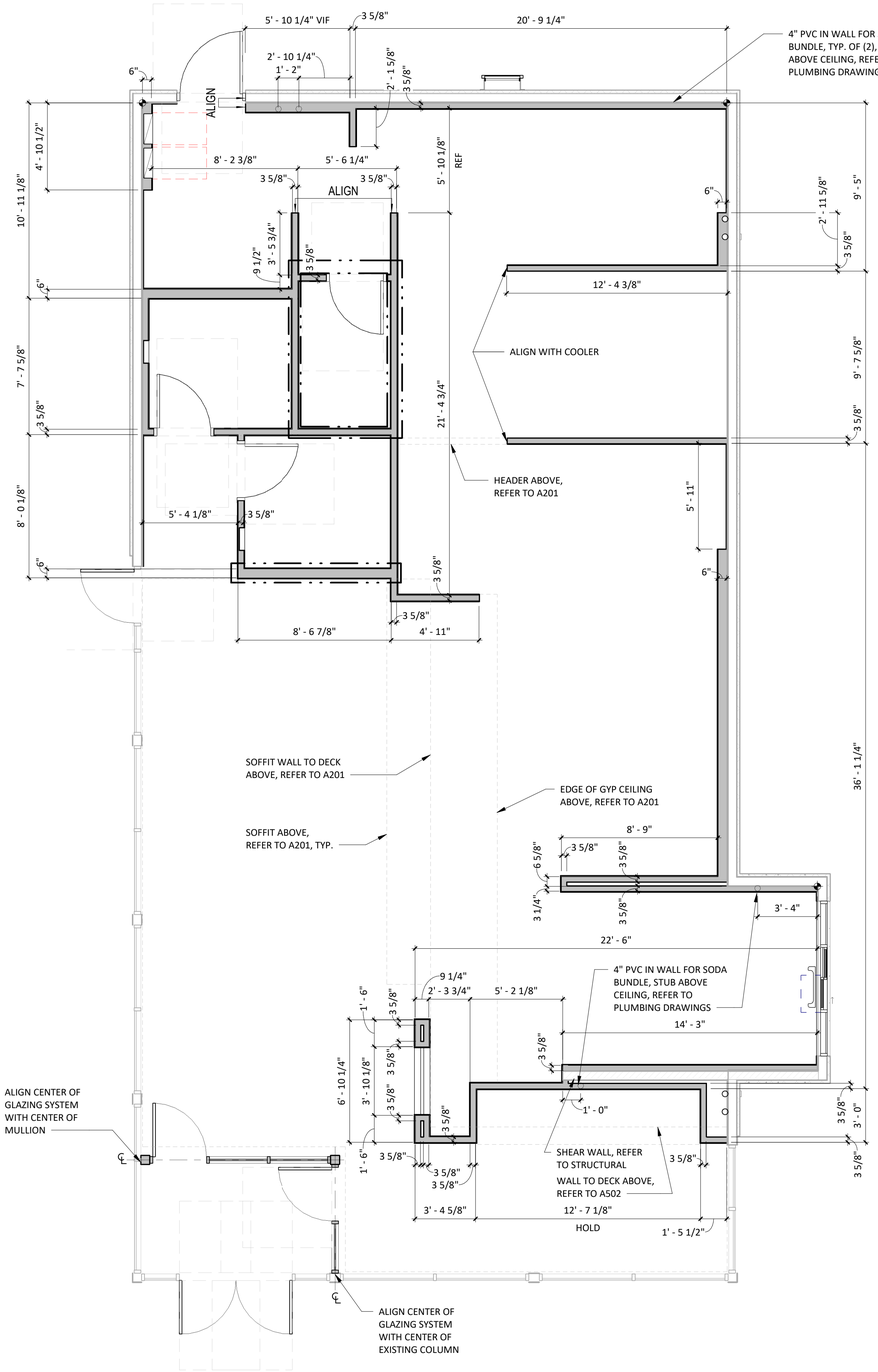
A101

WALL TYPE LEGEND

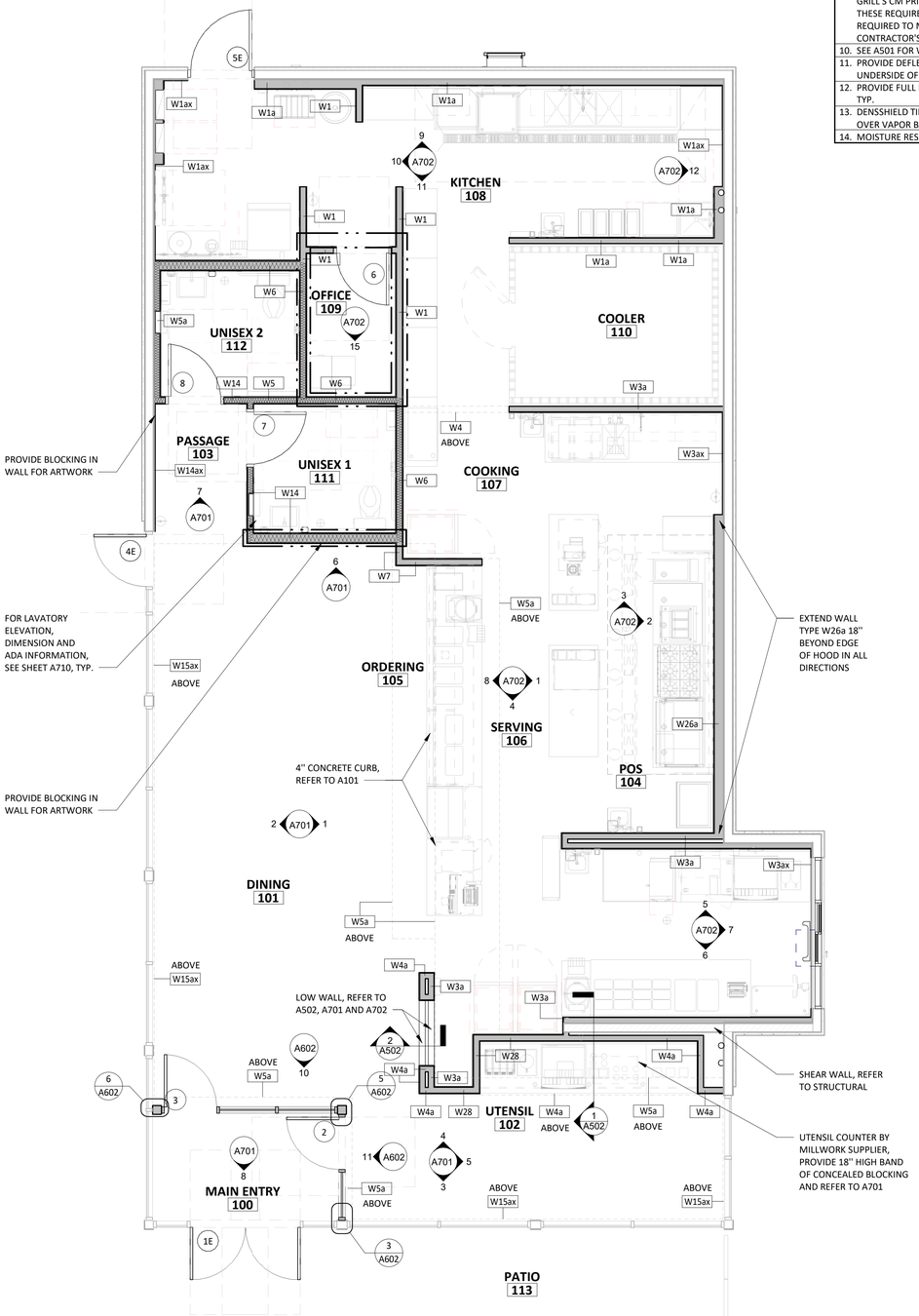
INTERIOR WALL CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	

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.



2 A110 **ARCHITECTURAL FLOOR PLAN - DIMENSIONS**
1/4" = 1'-0"



1 A110 **ARCHITECTURAL FLOOR PLAN**
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	NOT USED
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/A802. 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

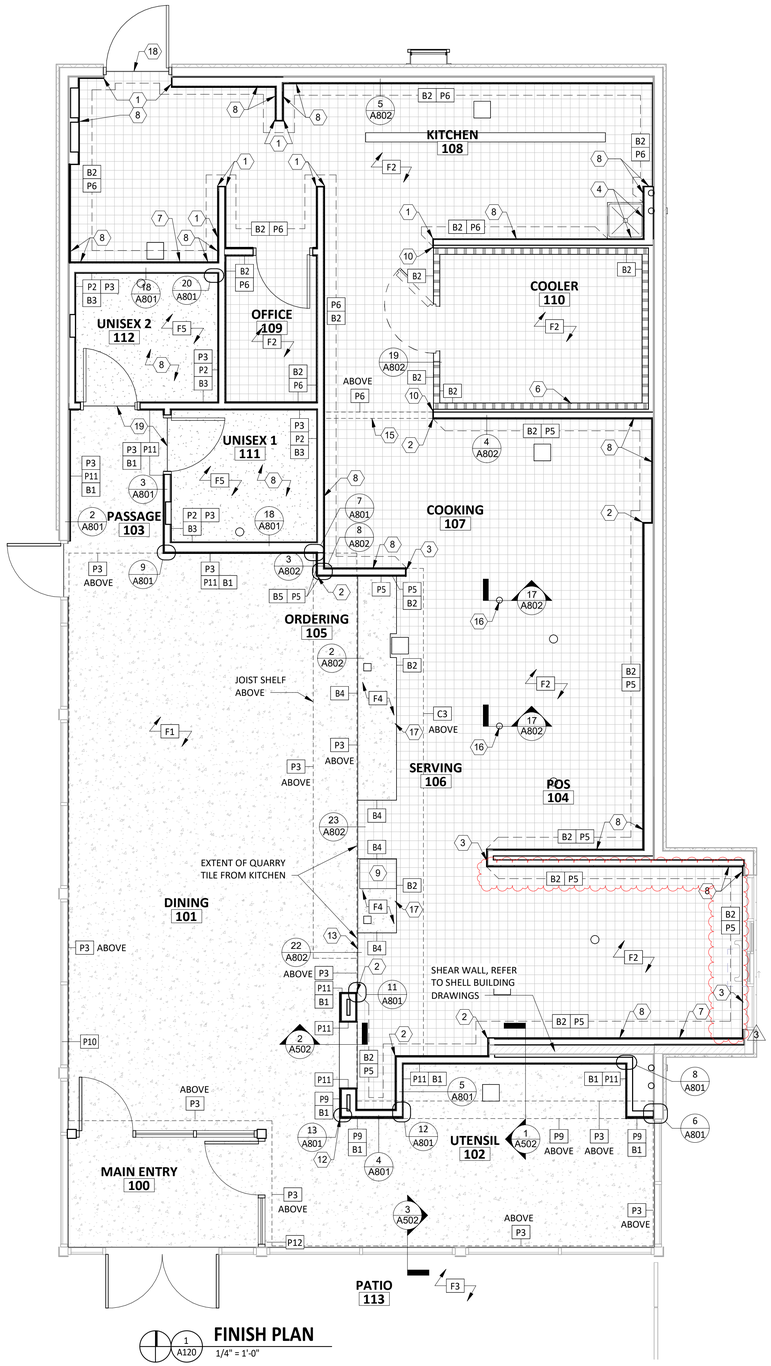
1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).

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	-	REFER TO PLAN FOR WALL FINISHES	C3	±10'-0"	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		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
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	F3	-		-	-	-



1 A120 **FINISH PLAN**
1/4" = 1'-0"

Consultant:
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2	07/30/2024	BULLETIN #1
3	10/31/2024	IFC REVISION

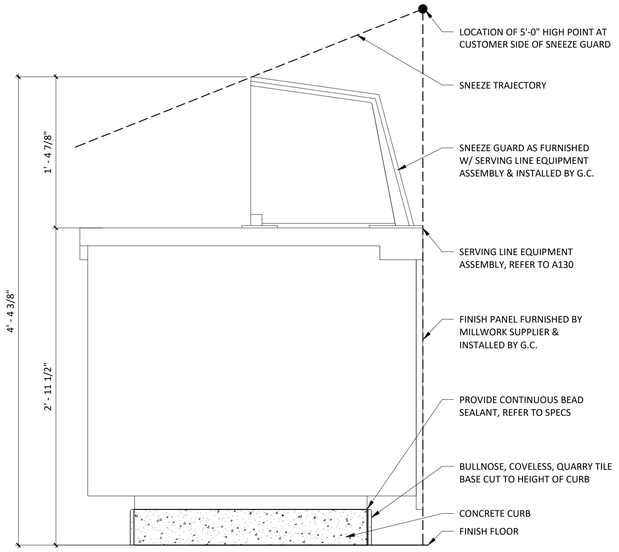
Project No.
24CMGX.0026.000

Contents:
FINISH PLAN

A120

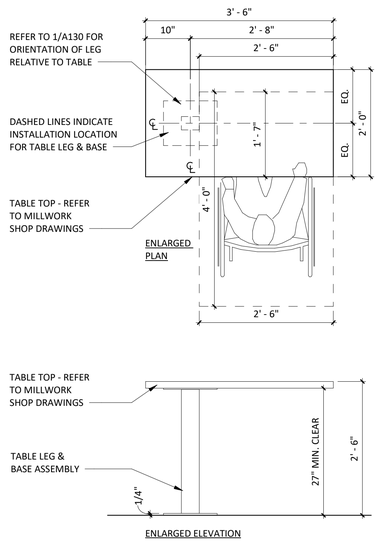
GENERAL NOTES

1.	REFER TO SHEETS A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2.	ALL DIMENSIONS ARE TO FACE OF FRAMING, EDGE OF EQUIPMENT OR CENTERLINE OF EQUIPMENT UNLESS NOTED OTHERWISE.
3.	ALL FURNITURE TO BE SQUARE/ PARALLEL TO TENANT SPACE/ WALLS AS SHOWN ON PLANS.



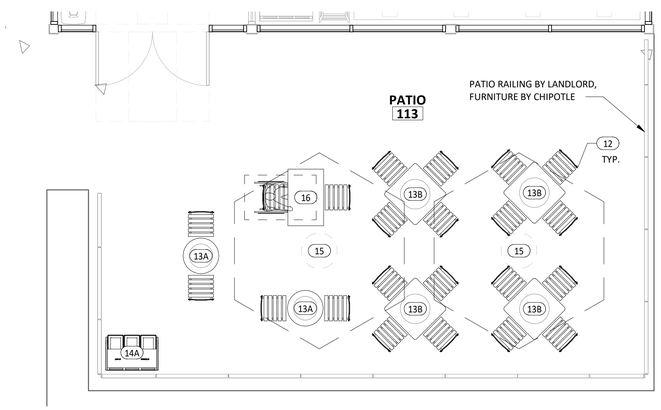
4 A130 DETAIL @ SERVE LINE SNEEZE GUARD

1 1/2" = 1'-0"



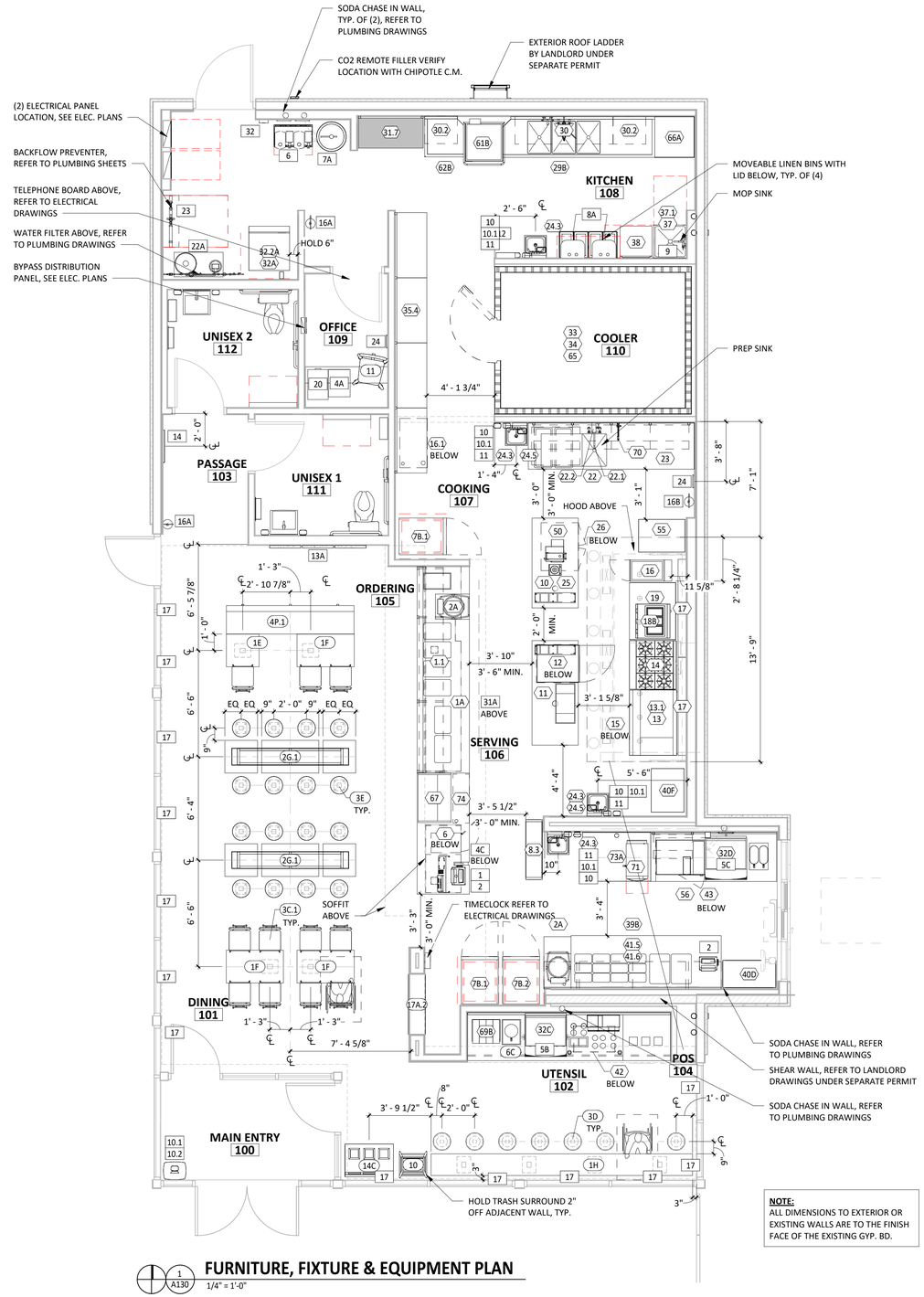
3 A130 DETAIL @ ACCESSIBLE TABLE

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 (Left)	BSI	Custom-L	1	TMS	TMS/GC					
1A	M4.0 - Front Serve Line - 12 Pan - RTD - POS Left	Duke	12 Pan Serve Line POS_241x38.5in (Left)	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	2	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	1	KES	KES	●				
8.3	M4.5 Chip Shelf	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	T	T	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Left	Delfield	77x34in Carving Station - LT	1	KES	KES	●				
12	Undercounter Refrigerator	Varies	Varies	1	KES	KES	●				
13	Grill 48in - Natural Gas - Divider Right	Woodstone	WS-PL-48-36-4-CT-Right	1	KES	KES	●	●			
13.1	Woodstone Grease Splash Guard	Nationwide Fab; Marlo Mfg	CHP-GCG-GSG	1	KES	KES					Verify If Required
14	Range 6 Burner - Natural Gas	Garland	U36-6S	1	KES	KES		●			
15	Woodstone Grill Stand 48x31in - Divider Right	Woodstone	000-PL-STAND-CASTER	1	KES	KES					
16	Fryer - Gas - Standard Efficiency	Varies	Varies	1	KES	KES	●	●			Mounted On Legs, G.C. To Pin Front Legs To Floor
16.1	Grease Caddy	Varies	Chipotle Grease Caddy - LF	1	KES	KES					
17	Cook Line Stand Off - 72x6	Nationwide Fab; Marlo Mfg	CHP-6WS-6	2	KES	KES					Mount Top of Flat Surface at 33" AFF, Install Screws at Each Stud Location, Provide Blocking To Mount To Wall
18B	Gas Rice Cooker	Woodstone	WS-RGC-60	1	KES	GC	●	●			Final Connection by GC. RE:Mechanical Drawings
19	Rice Cooker Stand - Right	Nationwide Fab; Marlo Mfg	CHP-RCS-42ES-34	1	KES	KES					
22	Prep Sink - Corner - Right	Trimark	S1-122x34-US-FF-R	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	4	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	4	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-16-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
32.1A	Ice Maker - Remote Condenser	Hoshizaki	URC-5FZ	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.1B	Ice Maker - Remote Condenser	Hoshizaki	URC-9FZ	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2A	Ice Maker - Storage Bin	Hoshizaki	B500SF	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			●		
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJZ	1	KES	KES	●		●		Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshisaki	KMD-530MAJ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32D	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Hoshisaki	KMD-530MRJZ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
33	Walk In Cooler 9x12x9ft 6in - Standard	Kolpak	CHP912SL-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)	CHP912EL	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 – Left – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_LT-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	Trimark	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	●				
45	Dunnage Rack - 18x36in	ISS	AAL361812	1	KES	KES					
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Chipotlane	Trimark	TS-36x92.5x36	1	KES	GC	●			●	
61B	Dish Machine (w/Pump)	Hobart	AM16SCB	1	KES	KES	●		●	●	
62B	Dish Table 30x30	Trimark	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	Trimark	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	●				
73A	50" TurboChef Table	Trimark	50X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	SPG	Custom	1	KES	KES					

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Drawn: Checked:

Project No.
24CMGX.0026.000

Contents:
EQUIPMENT SCHEDULE

A131

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
3	Cash Drop Box	2	SSS	GC					Drop Box Mounted Below POS Counter
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
5B	Soda Dispenser - With Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
5C	Soda Dispenser - With Remote Air-Cooled Ice Maker	1	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
8A	Gas Tankless Water Heater	2	GC	GC		●	●	●	Refer to MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	4	WA	GC					
10.1	Hand Sanitizer Dispenser	5	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	4	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	2	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
16B	Fire Extinguisher Type K	1	GC	GC					Mount in locations specified by the Fire Marshal. Provide plywood backing at specified locations.
17	Window Shades	15	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
22A	Water Softener On Dunnage Rack	1	KES	GC			●	●	See MEP Sheets For Details
23	Backflow Preventer	1	GC	GC			●	●	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					

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)	3	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2G.1	M4.0 - Bar Height Table 8-Top, With Footrest	2	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	11	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	7	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	16	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				●	Coordinate Floor Drain Installation with Utensil Counter Installation, Bins Provided by Tundra in Smallwares Package
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	22	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	4	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	1	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

GENERAL NOTE:
CONTRACTOR SHALL COORDINATE AND VERIFY ALL INFORMATION WITH CHIPOTLE PRIOR TO ORDERING MATERIAL OR ROUGH-IN RELATED SERVICES.

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1	03/25/2024	ADDENDUM #1

Drawn: Checked:

Project No.
24CMGX.0026.000

Contents:
EQUIP. & FURNITURE SCHEDULE

A132

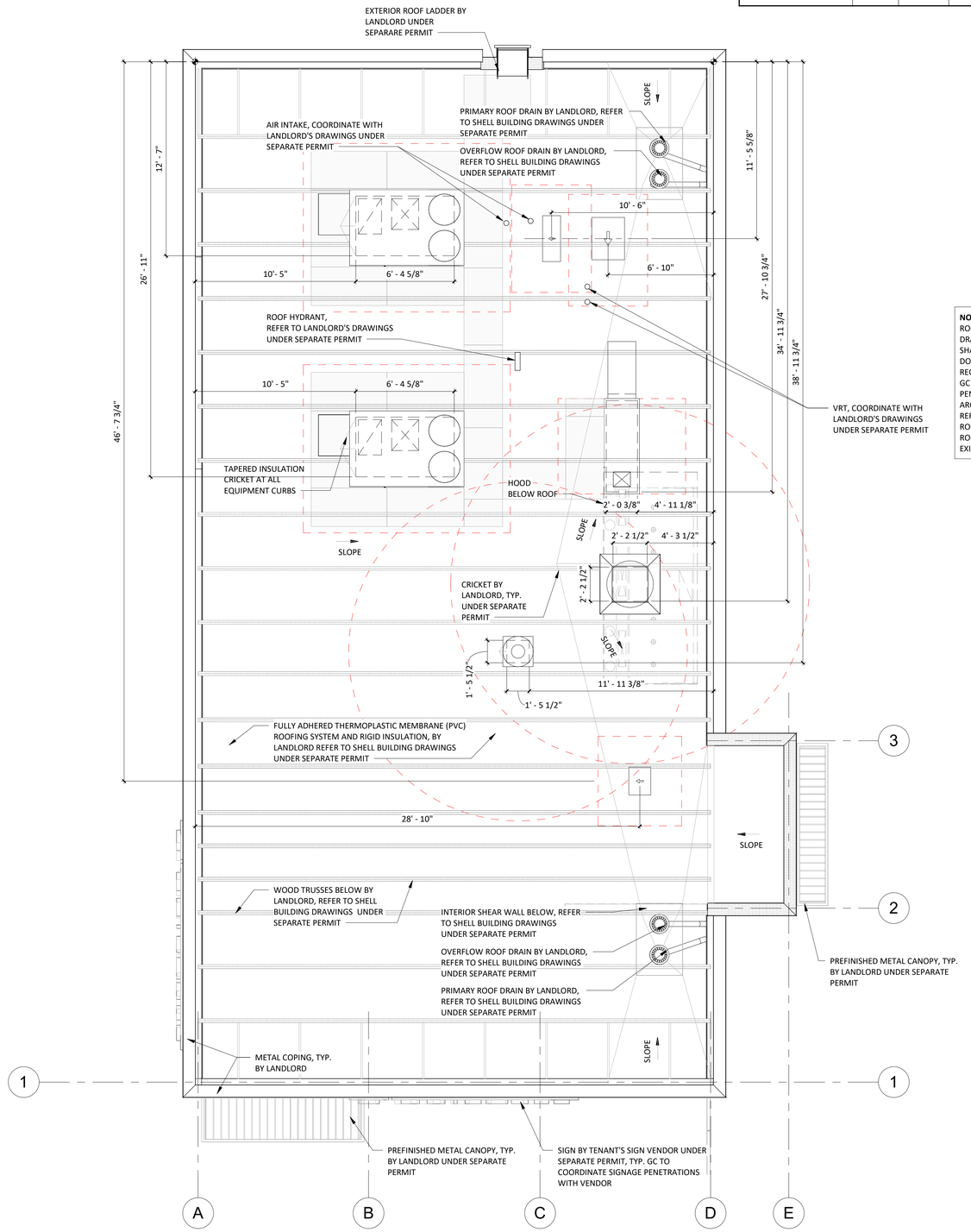
HVAC EQUIPMENT

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

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

GENERAL NOTES

1.	NOT USED.
2.	SEE MECHANICAL PLANS FOR ROOF TOP EQUIPMENT.
3.	COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
4.	REFER TO LANDLORD'S SHELL PERMIT DRAWINGS FOR ROOF MOUNTED EQUIPMENT LOCATIONS. CONTACT ENGINEERING CONSULTANTS FOR ANY MAJOR MODIFICATIONS TO LAYOUT.
5.	LANDLORD TO PROVIDE RTU CURBS, PENETRATIONS AND FLASHINGS, COORDINATE MECHANICAL WORK WITH LANDLORD DRAWINGS.
6.	SEE M700 FOR ADDITIONAL INFORMATION.
7.	PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
8.	NOT USED.
9.	LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.



1 A140 **ROOF PLAN**

1/4" = 1'-0"

NOTE:
ROOF PLAN FOR REFERENCE ONLY. REFER TO LANDLORD SHELL DRAWINGS FOR ROOFING AND RELATED STRUCTURE. LANDLORD SHALL PROVIDE ADEQUATE STRUCTURAL ENGINEERING, DOCUMENTATION AND CONSTRUCTION TO ACCOMMODATE THE REQUIRED ROOFTOP EQUIPMENT SHOWN ON THIS ROOF PLAN. GC TO PROVIDE MECHANICAL EQUIPMENT. COORDINATE ALL PENETRATIONS WITH LANDLORD PRIOR TO ANY WORK AND NOTIFY ARCHITECT IF DISCREPANCIES.
REFER TO LANDLORD CORE AND SHELL PERMIT DRAWINGS FOR ROOF DESIGN AND ASSOCIATED ELEMENTS. GC TO PROVIDE ROOFING ACCESSORY MATERIALS THAT ARE COMPATIBLE WITH EXISTING ROOFING - COORDINATE WITH LANDLORD.

FOR REFERENCE ONLY

(CORE AND SHELL UNDER SEPARATE PERMIT)

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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. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
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 IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
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, REFER TO A120.
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. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
24.	NOT USED.
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.	REFER TO A120 FOR FINISH SCHEDULE.

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

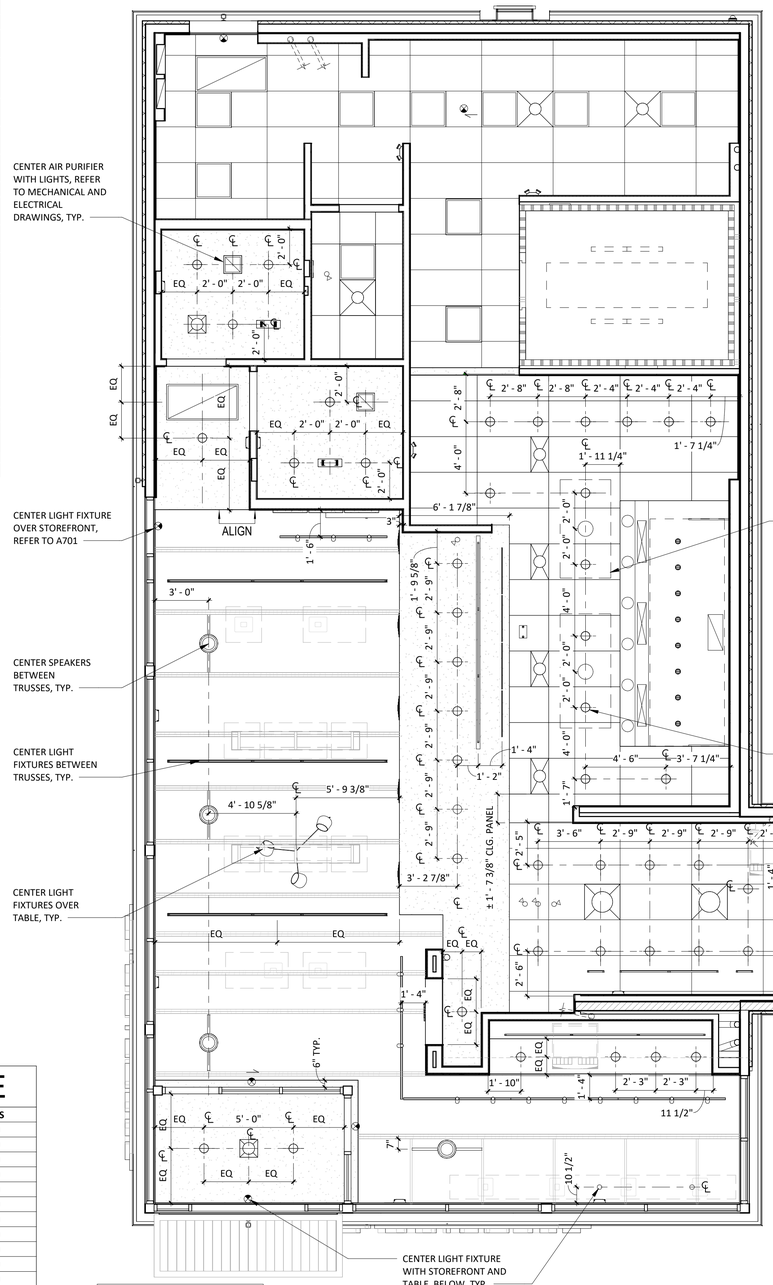
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

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

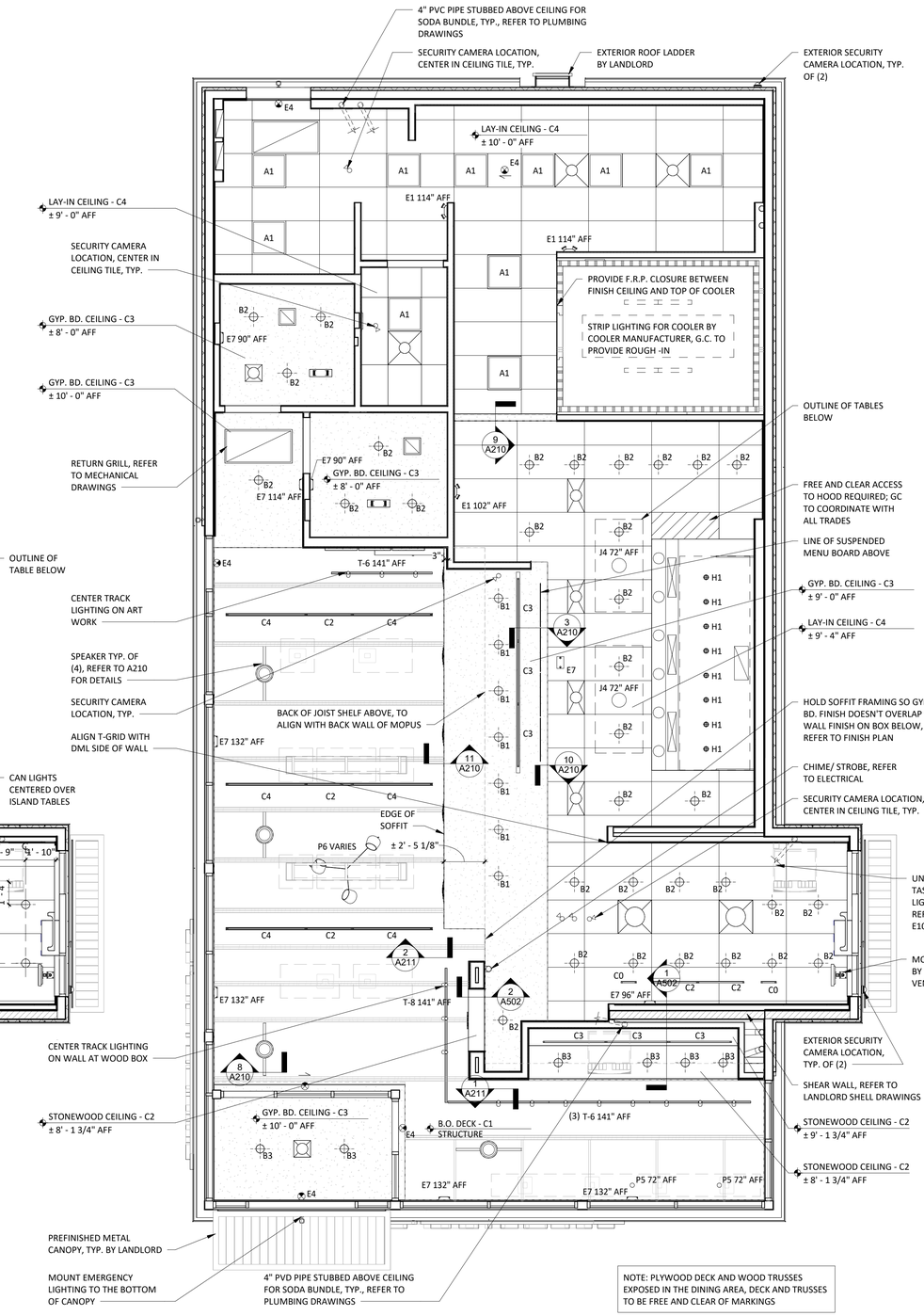
ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
A1	10	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	33	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	6	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	5	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	6	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	3	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	6	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	9	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	2	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	1	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100



NOTE:
ALL DIMENSIONS TO EXTERIOR WALLS ARE TO THE FINISH FACE OF THE EXISTING GYP. BD.

DIMENSIONED REFLECTED CEILING PLAN

2 / A201 — 1/4" = 1'-0"



NOTE: PLYWOOD DECK AND WOOD TRUSSES EXPOSED IN THE DINING AREA, DECK AND TRUSSES TO BE FREE AND CLEAR OF MARKINGS

REFLECTED CEILING PLAN

1 / A201 — 1/4" = 1'-0"

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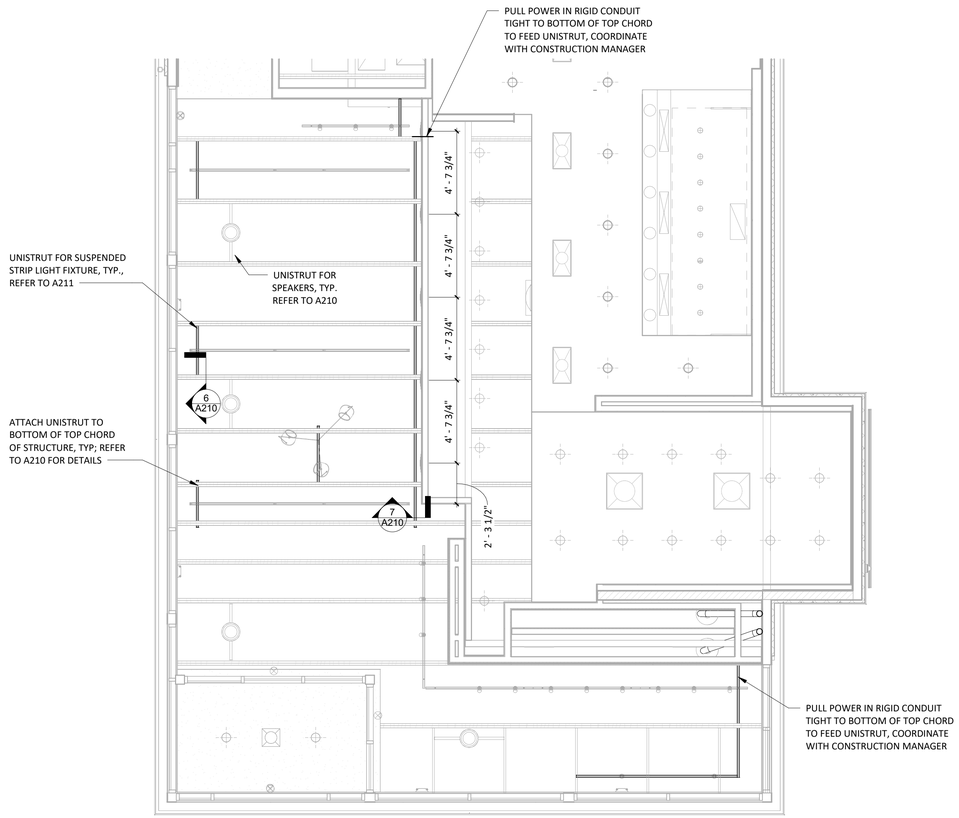
1	03/25/2024	ADDENDUM #1
2	07/30/2024	BULLETIN #1

Project No.
24CMGX.0026.000

Contents:
REFLECTED CEILING PLAN

A201

REFER TO A201 FOR GENERAL NOTES



1 A202 **UNISTRUT AND DUCTWORK LAYOUT**
1/4" = 1'-0"

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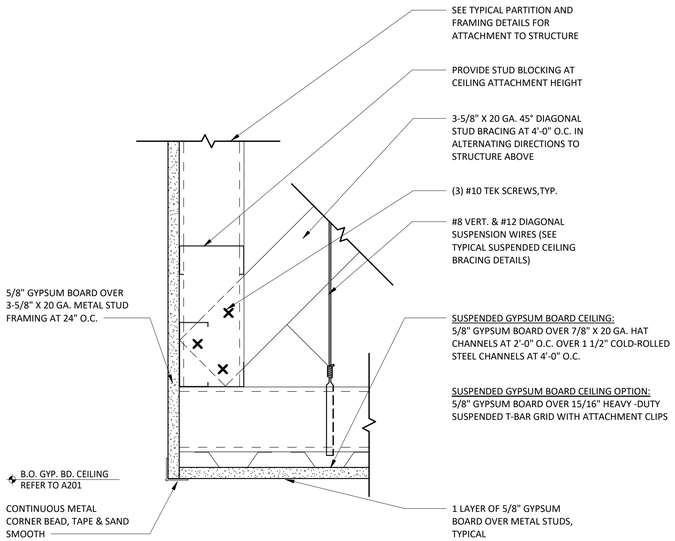
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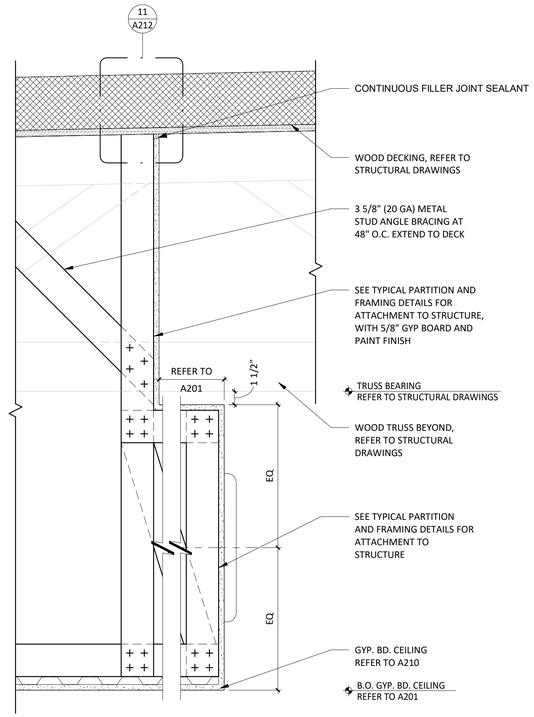
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REFLECTED CEILING & UNISTRUT PLAN

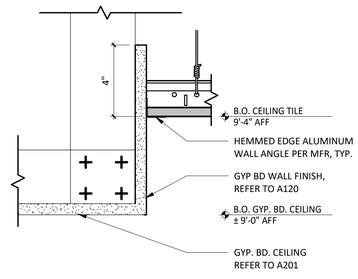
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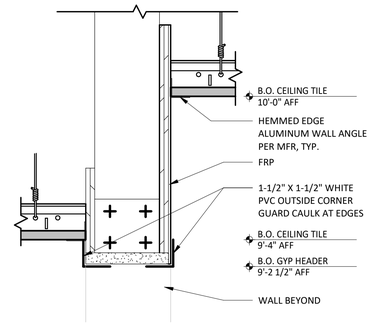
12 A210 **GYP. BOARD SOFFIT AT OPEN CEILING**
3" = 1'-0"



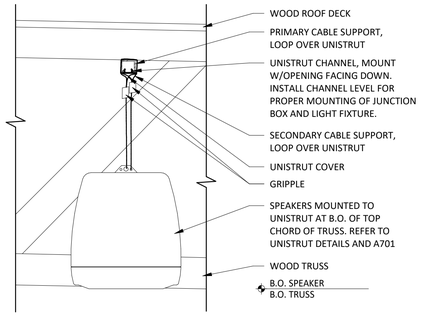
11 A210 **JOIST SHELF DETAIL**
1 1/2" = 1'-0"



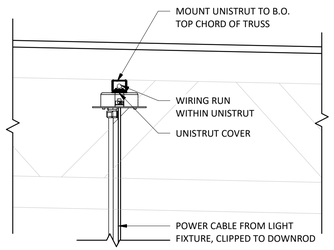
10 A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



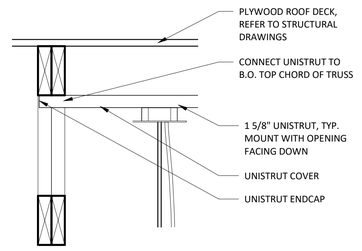
9 A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



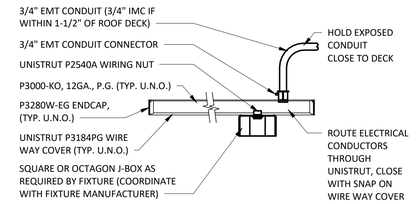
8 A210 **SPEAKER INSTALLATION**
1 1/2" = 1'-0"



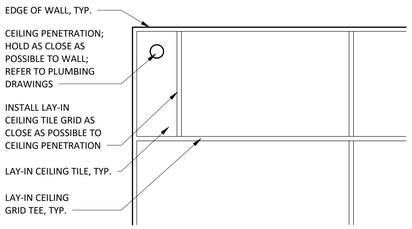
7 A210 **UNISTRUT DETAIL**
1 1/2" = 1'-0"



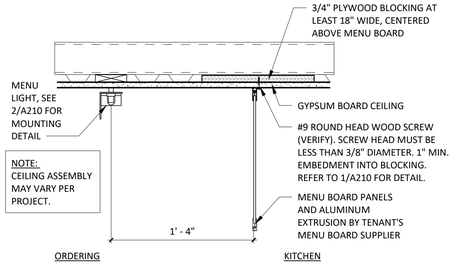
6 A210 **TYP. UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



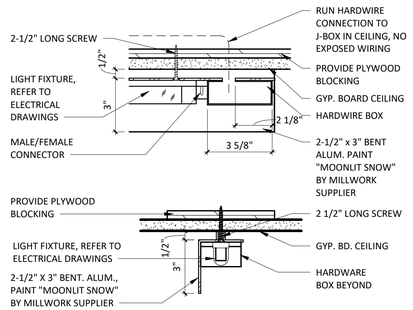
5 A210 **UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



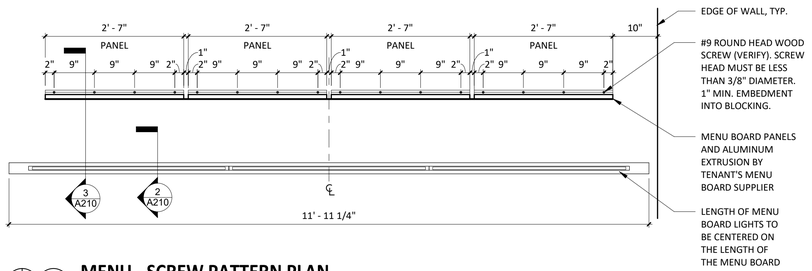
4 A210 **LAY-IN CEILING PENETRATION - PLAN DETAIL**
3/4" = 1'-0"



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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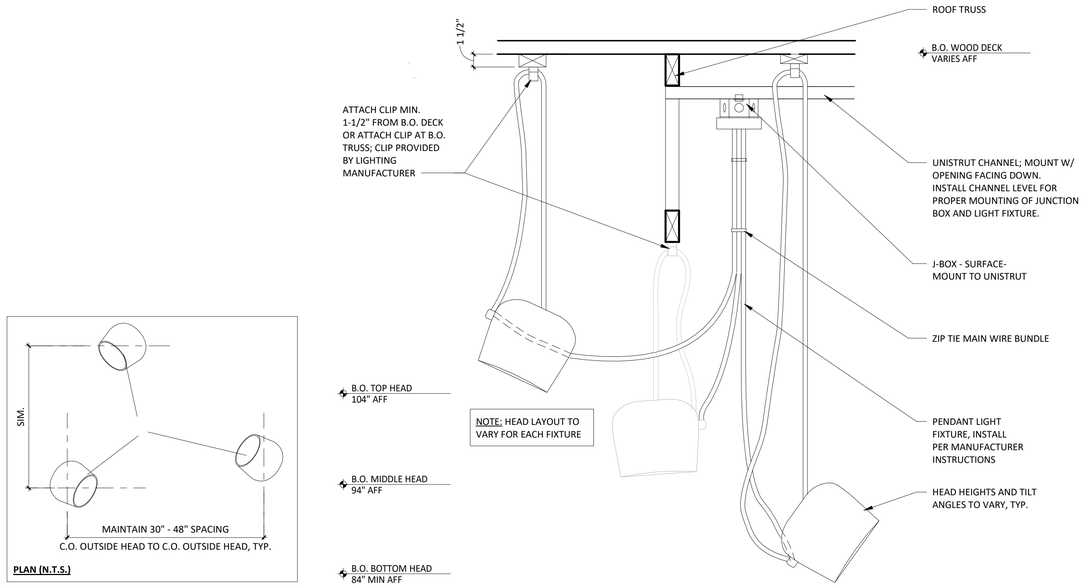
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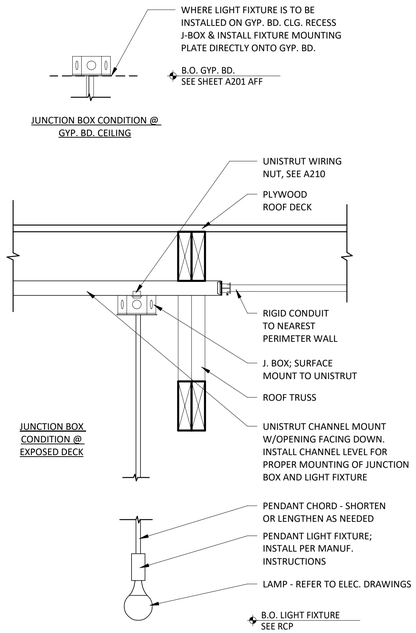
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Contents:
CEILING DETAILS

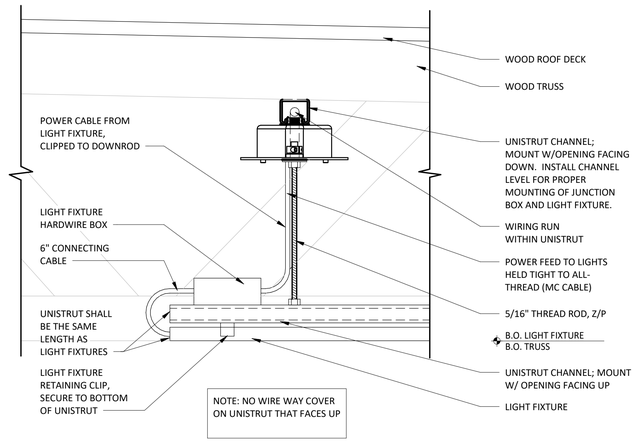
A210



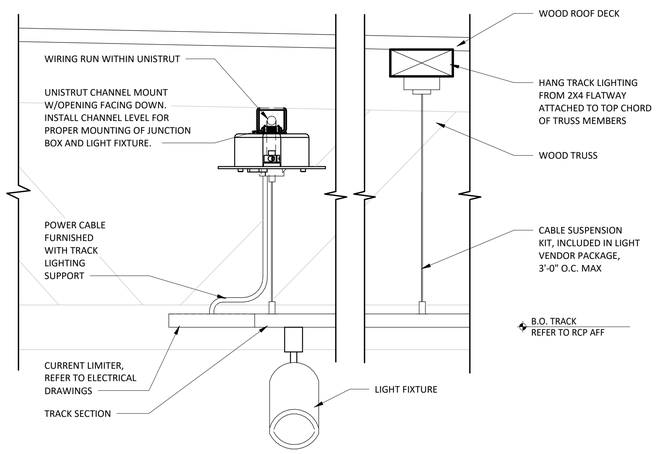
4 A211 **SUSPENDED LIGHT FIXTURE**
1 1/2" = 1'-0"



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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1707 CENTRAL AVE,
COLONIE, NY 12205

Issue Record:

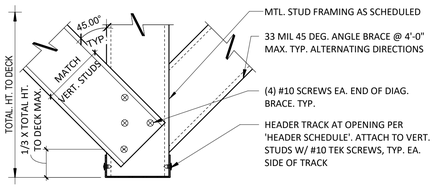
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Revisions:

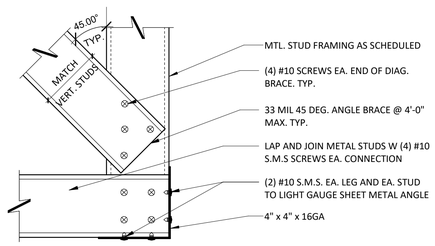
Project No.
24CMGX.0026.000

Contents:
LIGHTING DETAILS

A211



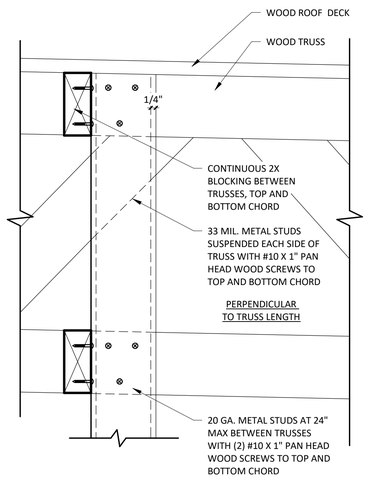
SOFFIT FRAMING AT CEILING HT. OPENING - BRACED AT 48" O.C.



SOFFIT FRAMING AT OUTSIDE EDGE

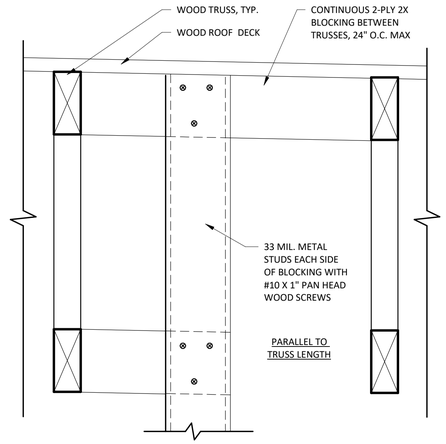
12 / A212 DECK SUPPORTED CEILING & SOFFIT FRAMING

3" = 1'-0"



11 / A212 SOFFIT HANGING DETAIL

3" = 1'-0"

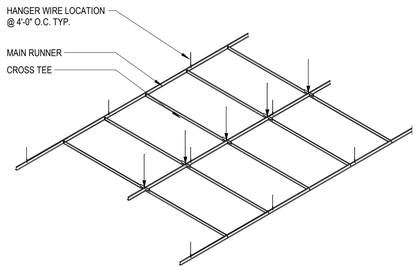


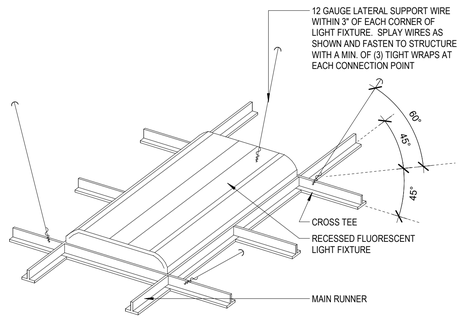
9 / A212 TYPICAL CEILING WIRING DIAGRAM

1/8" = 1'-0"

GENERAL NOTES FOR STANDARD CEILING SYSTEMS

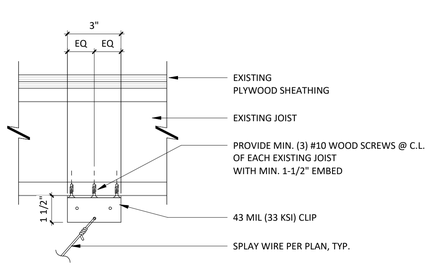
1. BASELINE SUSPENDED CEILING SYSTEM IS BASED ON "ARMSTRONG"-SEISMIC RX COMPONENTS FOR PERMIT AND BID PURPOSES. ALTERNATIVE MANUFACTURERS ARE PERMITTED PROVIDING PRODUCT IS COMPARABLE INCLUDING BUT NOT LIMITED TO FUNCTION, DIMENSION,PERFORMANCE, APPEARANCE AND OTHER CHARACTERISTICS THAT EQUAL OR EXCEED SPECIFIED PRODUCT. CONTRACTOR IS RESPONSIBLE FOR CERTIFICATION OF ALTERNATIVE PRODUCTS.
2. EXPOSED POP RIVETS NOT PERMITTED.
3. SYSTEM COMPONENTS SHALL BE COMPLIANT WITH CODE DEFINED SEISMIC CATAGORIES ENFORCED BY LOCAL JURISDICTION.
4. FOR SEISMIC DESIGN CATEGORIES 'A' & 'B', INSTALL PER ASTM C636. FOR SEISMIC DESIGN CATEGORY 'C', INSTALL PER ASTM C636 & ASTM E580.
5. IN JURISDICTIONS ENFORCING THE IBC (OR CBC BASED ON IBC) FOLLOW ASCE 7-16 SECTION 13.5.6 AND ASTM E580.
6. PARTITIONS ATTACHED TO CEILING SUSPENSION SYSTEM SHALL BE LATERALLY BRACED TO BUILDING STRUCTURE INDEPENDENT FROM CEILING.
7. NOT USED.
8. CONSULT LOCAL BUILDING CODE FOR ADDITIONAL REQUIREMENTS OUTSIDE OF MANUFACTURER'S INSTALLATION INSTRUCTIONS (INCLUDING, BUT NOT LIMITED TO, BRACING OF TRANSITIONS AND ADDITIONAL SEISMIC REQUIREMENTS).
9. FIELD VERIFY ALL CONDITIONS AND DIMENSIONS.





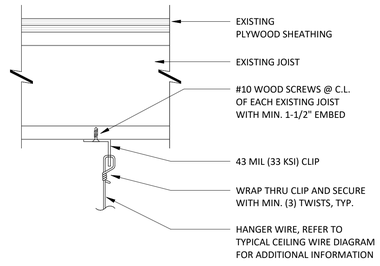
8 / A212 TYPICAL RECESSED LIGHT FIXTURE BRACING

1 1/2" = 1'-0"



3 / A212 TYP. SPLAY WIRE CONNECTION

3" = 1'-0"



2 / A212 TYP. HANGER WIRE CONNECTION

3" = 1'-0"

Consultant:
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Project No.
24CMGX.0026.000

Contents:
CEILING DETAILS - WOOD STRUCTURE

A212

SHEET QUALIFICATIONS AND ASSUMPTIONS

REQUIREMENTS FOR (N) PARTITION AND SOFFIT FRAMING:

- STUD SPACING: 24" O.C. MAX.
- STUD HEIGHT LIMITATION: 15'-0" MAX. AFF.
- STUD WALL WEIGHT: 10 PSF MAX.
- LATERAL LOAD: 5 PSF MAX.
- T.O. PARTIAL HEIGHT AND BRACED FRAMING TO DECK ABOVE: 8'-0" MAX.

REQUIREMENTS FOR (N) SOFFIT FRAMING:

- SOFFIT DROP: 7'-0" MAX. FROM STRUCTURE ABOVE
- HEIGHT OF GLAZING BELOW SOFFITS: 10'-0" MAX. AFF.
- STUD & CONNECTION SPACING: 24" O.C. MAX.
- BRACE SPACING: 48" O.C. MAX.
- STUD WALL WEIGHT: 10 PSF MAX.

- **DETAILS APPLICABLE FOR INTERIOR METAL STUD FRAMING AT CONCRETE FILLED METAL DECK OR UNFILLED METAL DECK AT ROOF ONLY.**
- **PROVIDE IN WRITING ANY AS BUILT FIELD DISCREPANCIES WITH THESE CONDITIONS, AND COORDINATE WITH ARCHITECT BEFORE START OF WORK.**
- **REFER TO OPENING FRAMING JAMB - HEADER - SILL SCHEDULES FOR MEMBER SIZING.**

***** MAX. LIMITS APPLY TO REFERENCED DETAILS ONLY. COORDINATE WITH PARTITION SCHEDULE. PROVIDE ENGINEERED STRUCTURAL DRAWINGS FOR ALL OTHER CONDITIONS WHERE APPLICABLE.**

JAMB SCHEDULE - INTERIOR WALLS - 3 5/8" AND 6" STUDS

MAX. OPENING WIDTH	STUD SIZE	12' MAX WALL HEIGHT STUD/TRACK	NO. OF MEMBERS	17' MAX WALL HEIGHT STUD/TRACK	NO. OF MEMBERS	20' MAX WALL HEIGHT STUD/TRACK	NO. OF MEMBERS
4'-0"	3-5/8"	(1)362S162-43 (33KSI) (1)362T125-33 (33KSI)	1	(1)362S162-43 (33KSI) (1)362T200-43 (33KSI)	2	(1)362S250-54 (50KSI) (1)362T250-54 (50KSI)	2
8'-0"	3-5/8"	(1)362S162-33 (33KSI) (1)362T150-33 (33KSI)	2	(2)362S200-43 (33KSI) (1)362T250-54 (50KSI)	3	(2)362S250-54 (50KSI) (2)362T250-68 (50KSI)	4
12'-0"	3-5/8"	(1)362S162-33 (33KSI) (1)362T125-33 (33KSI)	2	(2)362S250-54 (33KSI) (2)362T162-43 (33KSI)	4	(2)362S300-68 (50KSI) (2)362T250-68 (50KSI)	4
16'-0"	3-5/8"	(2)362S162-33 (33KSI) (1)362T200-33 (33KSI)	3	(2)362S300-54 (33KSI) (2)362T250-54 (50KSI)	4	(2)362S300-68 (50KSI) (2)362T250-97 (50KSI)	4
4'-0"	6"	(1)600S162-43 (33KSI)	1	(1)600S162-43 (33KSI)	1	(1)600S162-43 (33KSI)	1
8'-0"	6"	(1)600S162-33(33KSI)	1	(1)600S162-33 (33KSI) (1)600T125-30 (33KSI)	2	(1)600S200-43 (33KSI) (1)600T150-33 (33KSI)	2
12'-0"	6"	(1)600S162-33 (33KSI)	1	(1)600S200-33 (33KSI) (1)600T125-33 (33KSI)	2	(2)600S250-43 (33KSI) (1)600T150-33 (33KSI)	3
16'-8"	6"	(1)600S162-43 (33KSI)	1	(1)600S250-43 (33KSI) (1)600T200-43 (33KSI)	2	(2)600S250-43 (33KSI) (2)600T150-33 (33KSI)	4
21'-0"	6"	(1)600S200-43 (33KSI)	1	(2)600S200-33 (33KSI) (1)600T200-43 (33KSI)	3	(1)600S300-68 (50KSI) (1)600T250-97 (50KSI)	2

NOTE: SEE AXON AND FASTENING OPTION DETAILS FOR ADDITIONAL INFO BASED ON OPENING DIMENSIONS.

HEADER SCHEDULE - INTERIOR WALLS - 3 5/8" AND 6" STUDS

MAX. OPENING WIDTH	STUD SIZE	12' MAX WALL HEIGHT STUD/TRACK	NO. OF MEMBERS	17' MAX WALL HEIGHT STUD/TRACK	NO. OF MEMBERS	20' MAX WALL HEIGHT STUD/TRACK	NO. OF MEMBERS
4'-0"	3-5/8"	(1)328T150-43 (50KSI)	1	(1)362S162-43 (33KSI) (1)362T200-33 (33KSI)	2	(1)362S200-33 (33KSI) (1)362T250-43 (33KSI)	2
8'-0"	3-5/8"	(1)362S200-33 (33KSI) (1)362T250-33 (33KSI)	2	(2)362S162-43 (33KSI) (2)362T150-43 (33KSI)	4	(2)362S162-43 (33KSI) (2)362T150-68 (50KSI)	4
12'-0"	3-5/8"	(2)362S200-43 (33KSI) (2)362T250-43 (33KSI)	4	(2)600S162-43 (33KSI) (2)362T250-54 (50KSI)	4	(2)600S162-43 (33KSI) (2)362T250-68 (50KSI)	4
15'-0"	3-5/8"	(2)362S250-97 (33KSI) (2)362T250-97 (50KSI)	4	(2)600S162-97 (33KSI) (2)362T250-97 (50KSI)	4	(2)1000S162-68 (50KSI) (2)362T250-97 (50KSI)	4
4'-0"	6"	600T200-43 (33KSI)	1	(1)600S162-33 (33KSI) (1)600T200-43 (33KSI)	2	(1)600S162-43 (33KSI) (1)600T200-43 (33KSI)	2
8'-0"	6"	(1)600S162-33 (33KSI) (1)600T250-43 (33KSI)	2	(2)600S162-33 (33KSI) (2)600T125-30 (33KSI)	4	(2)600S162-33 (33KSI) (2)600T125-33 (33KSI)	4
12'-0"	6"	(2)600S200-54 (33KSI) (2)600T250-54 (50KSI)	4	(2)600S162-33 (33KSI) (2)600T150-33 (33KSI)	4	(2)600S200-43 (33KSI) (2)600T200-33 (33KSI)	4
16'-8"	6"	(2)600S250-54 (33KSI) (2)600T250-68 (50KSI)	4	(2)1000S200-43 (33KSI) (2)600T250-68 (50KSI)	4	(2)1200S300-54 (33KSI) (2)600T250-68 (50KSI)	4
21'-6"	6"	(2)600S350-54 (33KSI) (2)600T250-68 (50KSI)	4	(2)1000S300-54 (33KSI) (2)600T250-97 (50KSI)	4	(2)1400S200-68 (50KSI) (2)600T250-97 (50KSI)	2

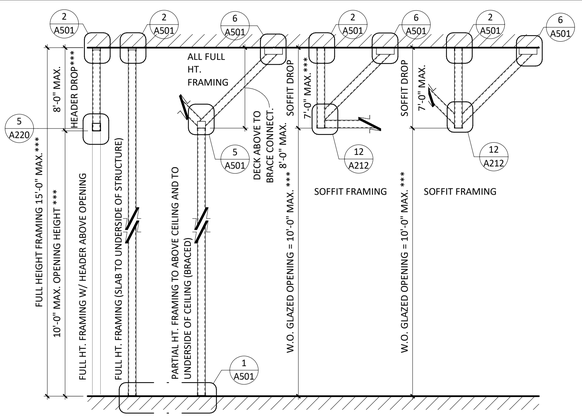
SILL SCHEDULE - INTERIOR WALLS - 3 5/8" AND 6" STUDS

MAX. OPENING WIDTH	STUD SIZE	STUD/TRACK	NO. OF MEMBERS
4'-0"	3-5/8"	(1)362T150-33 (33KSI)	1
8'-0"	3-5/8"	(1)362T150-33 (33KSI)	1
12'-0"	3-5/8"	(1)362S162-43 (33KSI) (1)362T150-43 (33KSI)	2
15'-0"	3-5/8"	(1)362S250-54 (33KSI) (1)362T250-54 (33KSI)	2

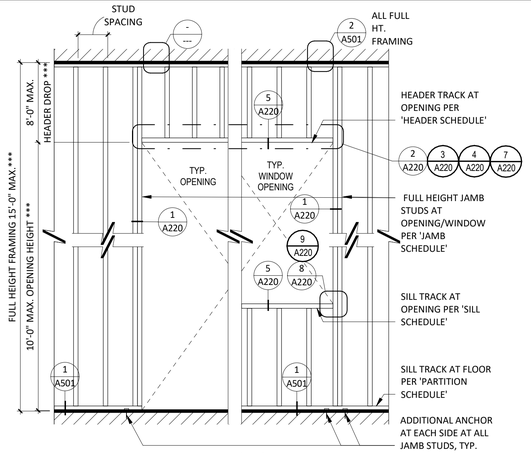
MAX. OPENING WIDTH	STUD SIZE	STUD/TRACK	NO. OF MEMBERS
4'-0"	6"	(1)600T125-30 (33KSI)	1
8'-0"	6"	(1)600T125-30 (33KSI)	1
12'-0"	6"	(1)600T125-33 (33KSI)	1
16'-8"	6"	(1)600S200-43 (33KSI) (1)600T250-43 (33KSI)	2
21'-6"	6"	(1)600S200-54 (33KSI) (1)600T250-97 (50KSI)	2

44 A220 OPENING FRAMING JAMB - HEADER - SILL SCHEDULES

3" = 1'-0"



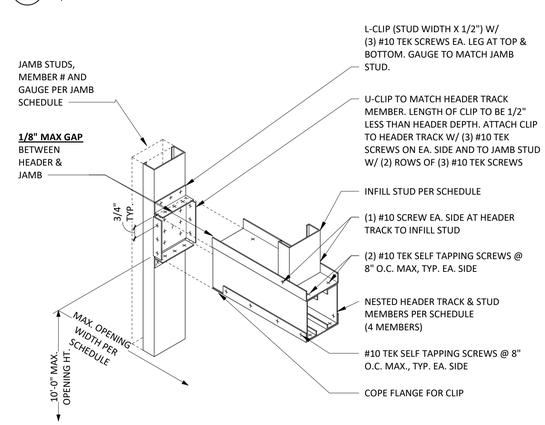
PARTITION FRAMING - SECTION DIAGRAM (NTS.)

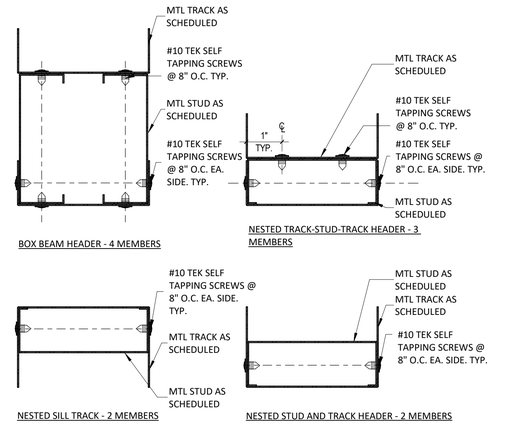


PARTITION FRAMING - ELEVATION DIAGRAM (NTS.)

10 A220 TYPICAL INTERIOR PARTITION FRAMING ELEVATION

3/8" = 1'-0"

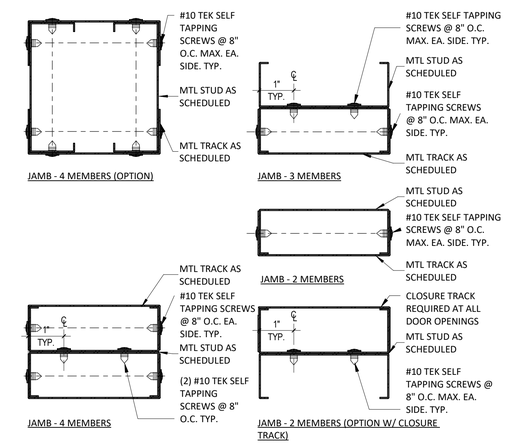




NOTE: REFER TO "OPENING FRAMING JAMB - HEADER - SILL SCHEDULES" FOR MEMBER SIZING REQUIREMENTS.

5 A220 FASTENING OPTIONS FOR SILLS, AND HEADERS WITH 4, 3, OR 2 MEMBERS

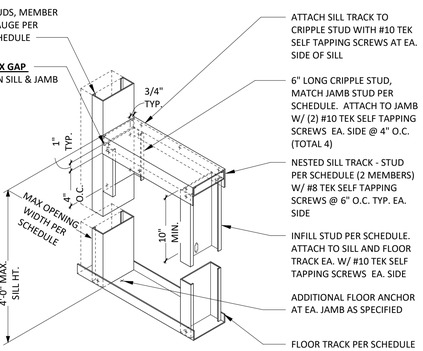
6" = 1'-0"



NOTE: REFER TO "OPENING FRAMING JAMB - HEADER - SILL SCHEDULES" FOR MEMBER SIZING REQUIREMENTS.

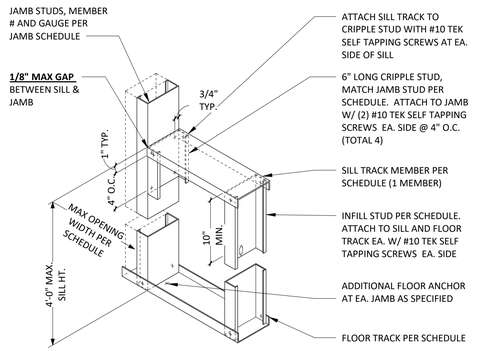
1 A220 FASTENING OPTIONS FOR JAMBS WITH 4, 3, OR 2 MEMBERS

6" = 1'-0"



9 A220 (2) MEMBER - SILL TRACK TO JAMB CONNECTION AT OPENING

1" = 1'-0"

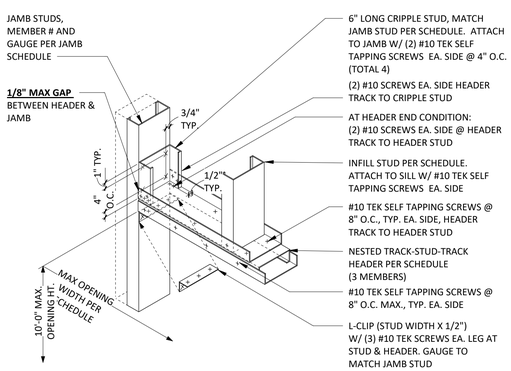


8 A220 (1) MEMBER - SILL TRACK TO JAMB CONNECTION AT OPENING

1" = 1'-0"

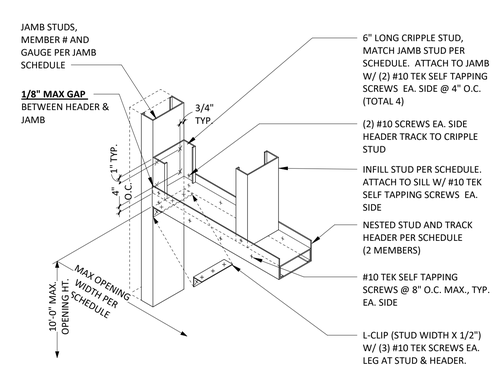
7 A220 (4) MEMBER - BOX BEAM HEADER TO JAMB CONNECTION AT OPENING

1" = 1'-0"



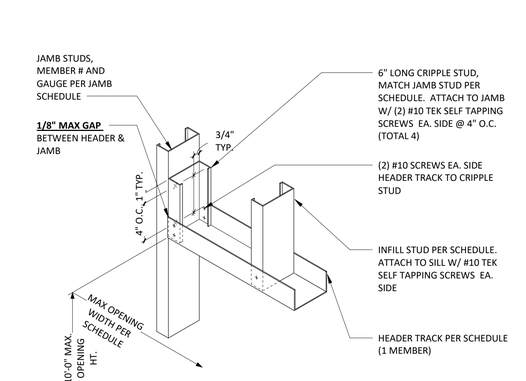
4 A220 (3) MEMBER TRACK-STUD-TRACK HEADER TO JAMB CONNECTION AT OPENING

1" = 1'-0"



3 A220 (2) MEMBER STUD & TRACK HEADER TO JAMB CONNECTION AT OPENING

1" = 1'-0"



2 A220 (1) MEMBER - HEADER TRACK TO JAMB CONNECTION AT OPENING

1" = 1'-0"

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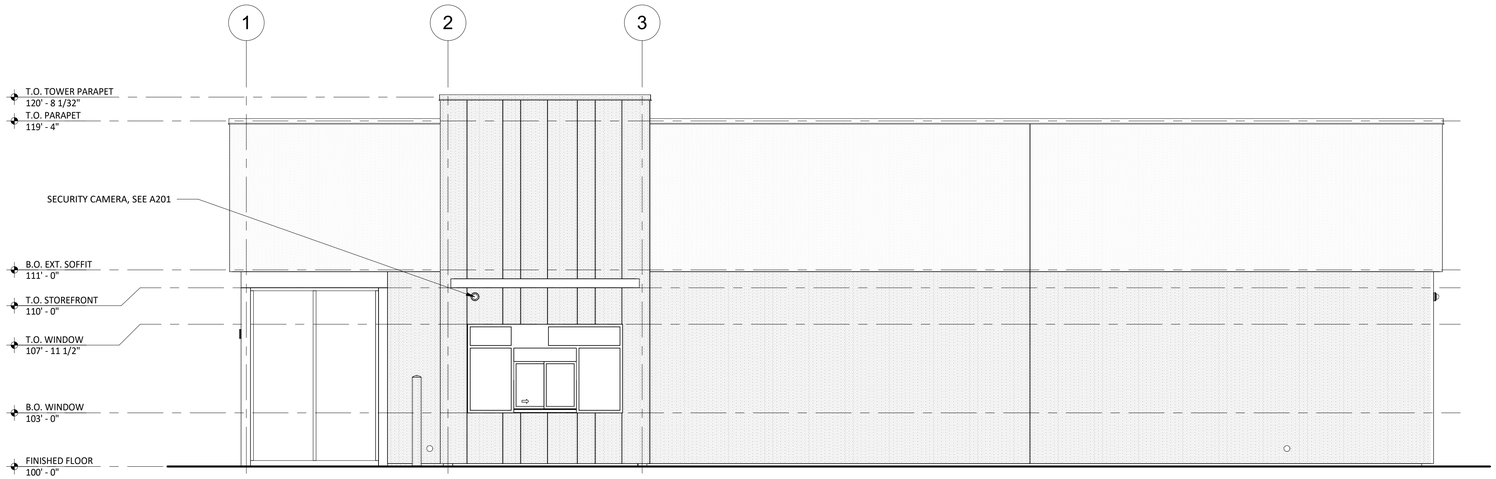
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TYPICAL INT. STUD AND FRAMING DETAILS

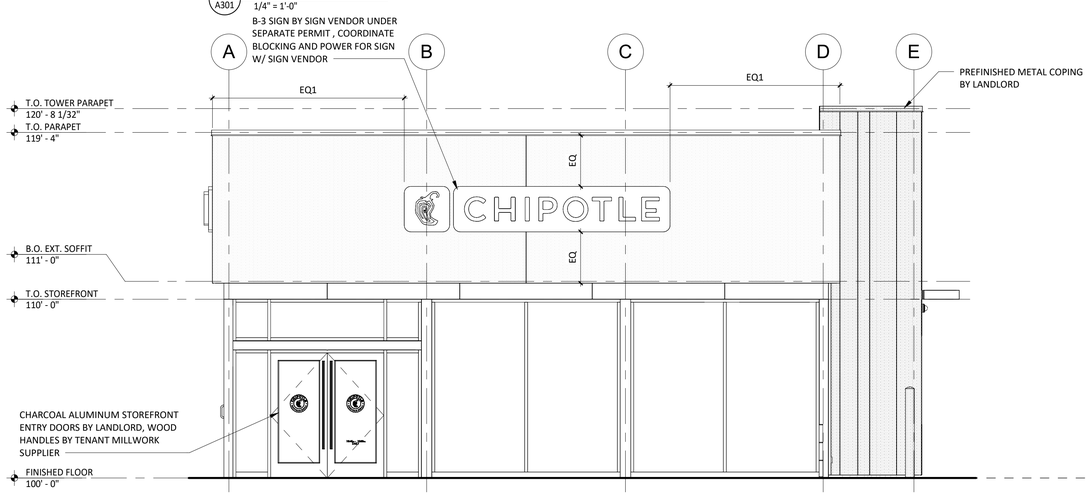
A220

GENERAL NOTES

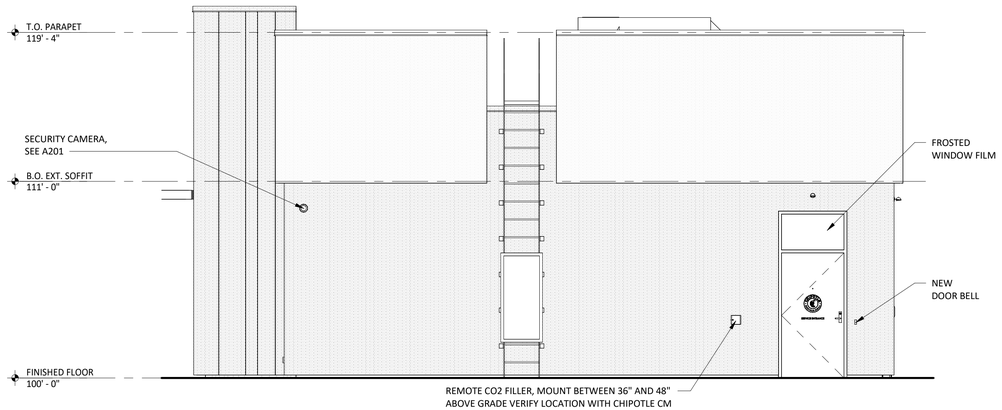
1.	REFER TO EXTERIOR ELEVATIONS THIS SHEET FOR EXTERIOR SIGNAGE LOCATIONS, SIZES & DESCRIPTIONS.
2.	EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.



4 A301 **EXT ELEV - EAST**
1/4" = 1'-0"



3 A301 **EXT ELEV - SOUTH**
1/4" = 1'-0"



2 A301 **EXT ELEV - NORTH**
1/4" = 1'-0"



1 A301 **EXT ELEV - WEST**
1/4" = 1'-0"

FOR REFERENCE ONLY

(CORE AND SHELL UNDER SEPARATE PERMIT)

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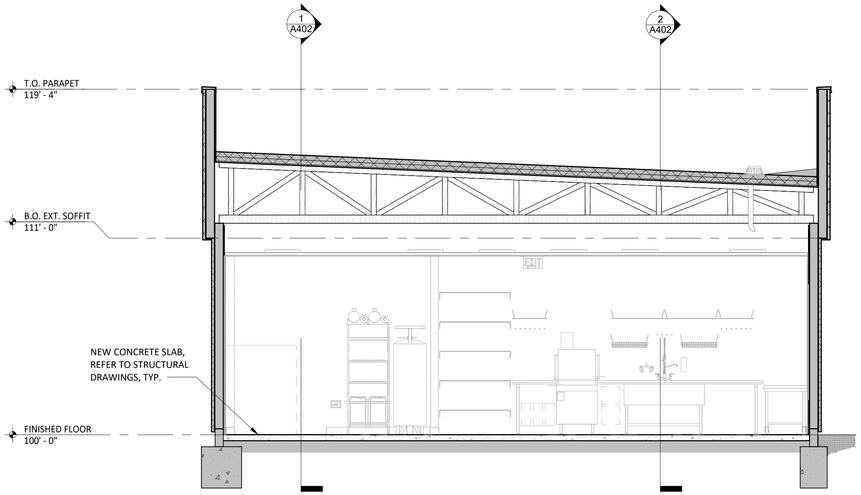
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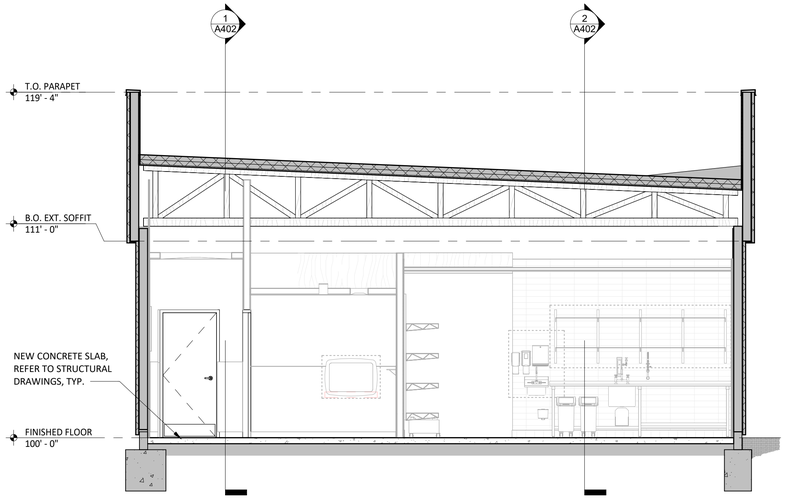
Project No.
24CMGX.0026.000

Contents:
EXTERIOR ELEVATIONS

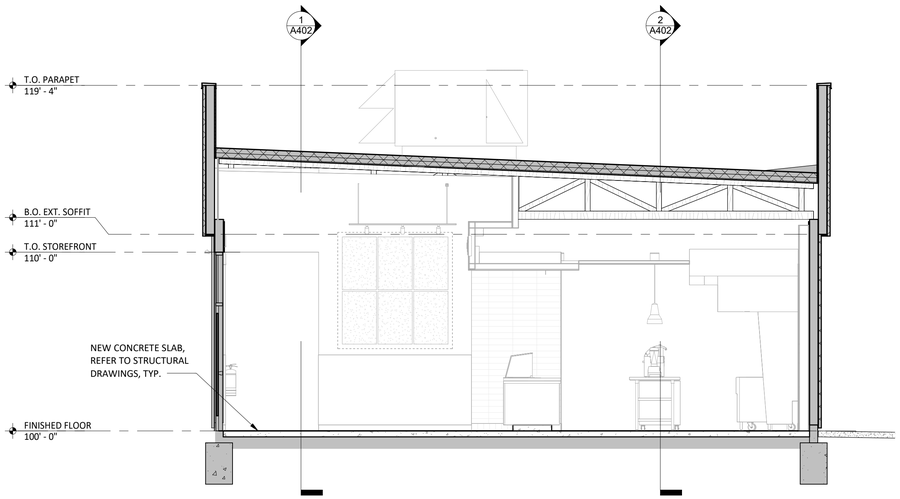
A301



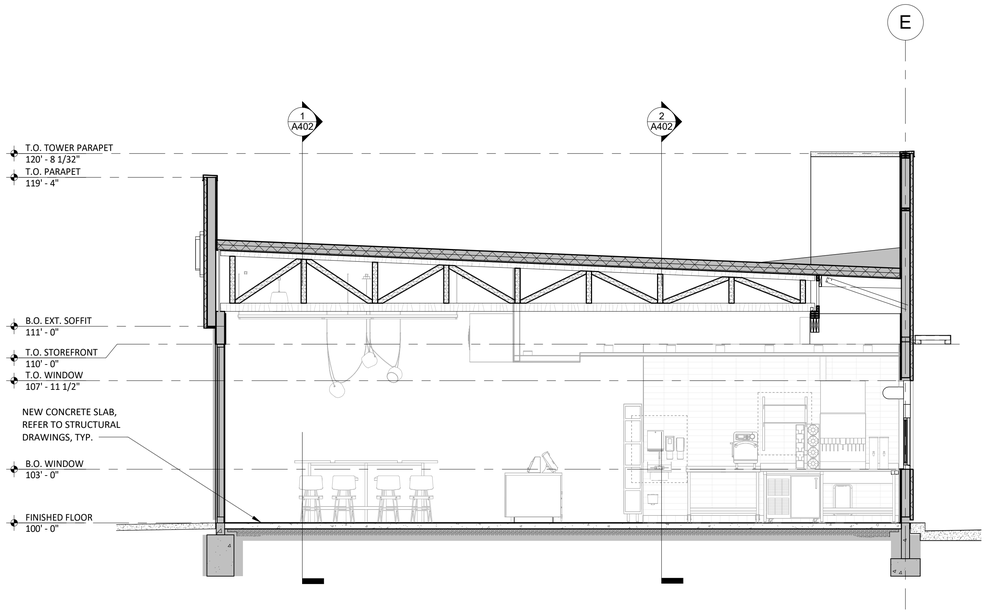
4 A401 **BUILDING SECTION**
1/4" = 1'-0"



3 A401 **BUILDING SECTION**
1/4" = 1'-0"



2 A401 **BUILDING SECTION**
1/4" = 1'-0"



1 A401 **BUILDING SECTION**
1/4" = 1'-0"

FOR REFERENCE ONLY

(CORE AND SHELL UNDER
SEPARATE PERMIT)

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COLUMBUS, OH 43218-2566
TELEPHONE: 614.318.2400
INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 31-4939

COLONIE
1707 CENTRAL AVE,
COLONIE, NY 12205

Issue Record:

02/14/24	PERMIT SET
07/25/24	BID SET
10/31/24	IFC SET

Revisions:

Drawn: Checked:

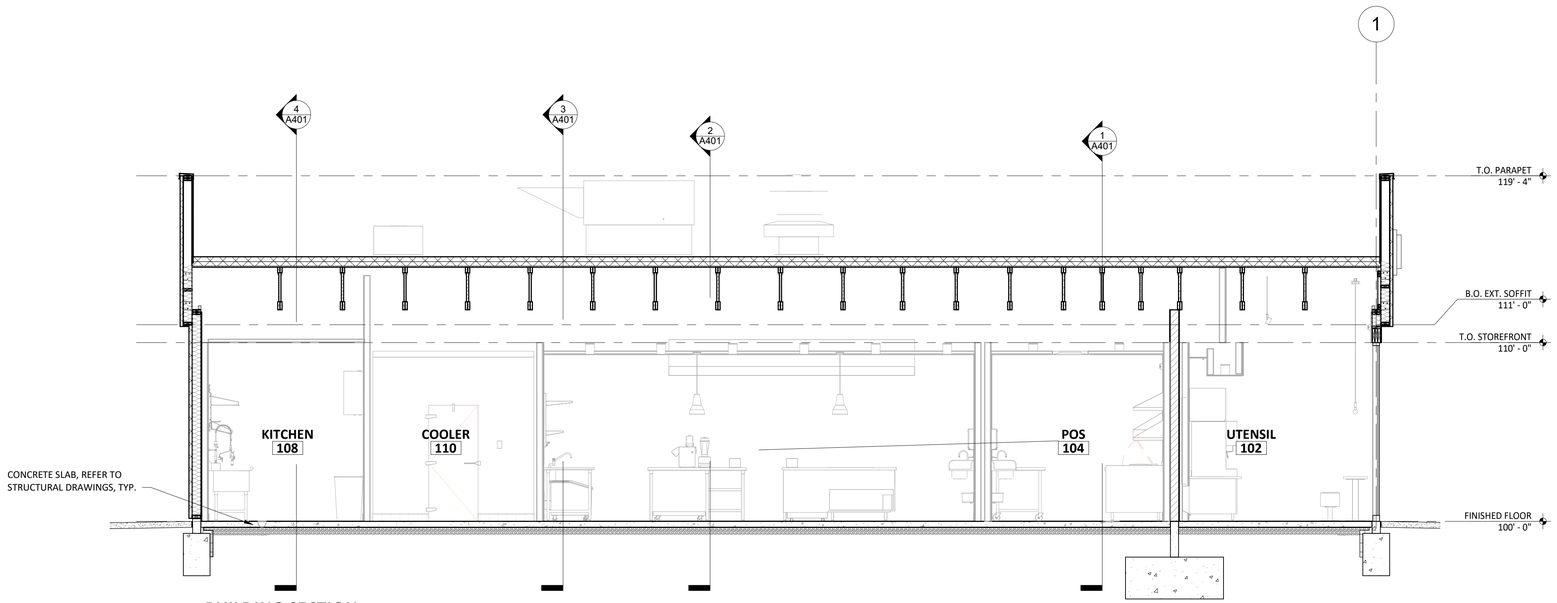
Project No.

24CMGX.0026.000

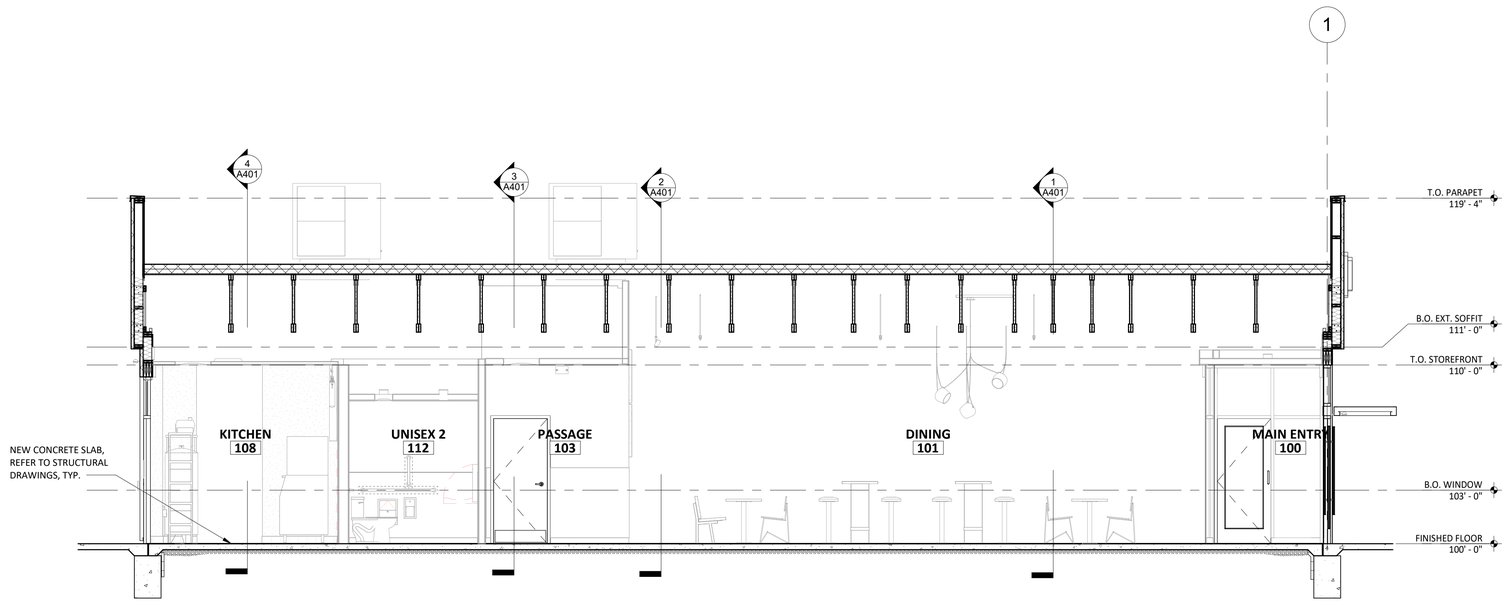
Contents:

BUILDING SECTIONS

A401



2 A402 **BUILDING SECTION**
1/4" = 1'-0"



1 A402 **BUILDING SECTION**
1/4" = 1'-0"

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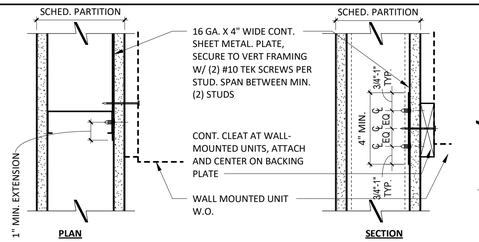
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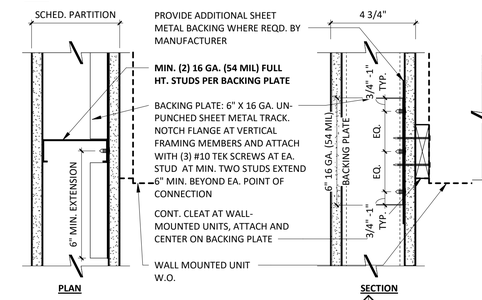
Project No.
24CMGX.0026.000

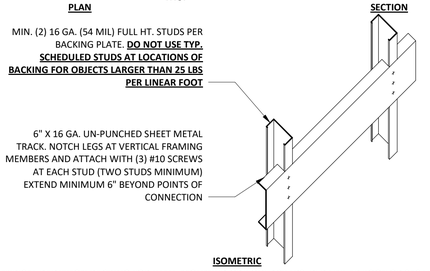
Contents:
BUILDING SECTIONS

A402



TYPICAL PARTITION BACKING FOR OBJECTS WITH MAXIMUM VERTICAL LOAD OF 25 LBS. PER LINEAR FOOT



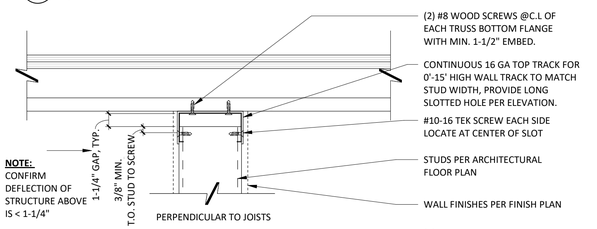


TYPICAL PARTITION BACKING FOR WALL-MOUNTED OBJECTS 100 LBS. PER LINEAR FOOT OR 250 LBS POINT LOAD

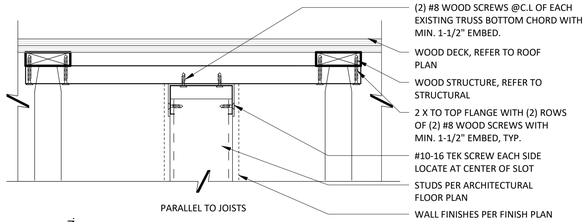
NOTE:
1. COORDINATE BACKING PLATE LOCATION WITH ACCESSORY MANUFACTURER'S MOUNTING INSTRUCTIONS.
2. COORDINATE FULL HT. STUD GAUGE FOR ALL LOCATIONS BETWEEN 25 LBS AND 100 LBS PER LINEAR FOOT.
3. SEE STRUCTURAL DRAWINGS FOR PARTITION BLOCKING AND FRAMING FOR HEAVIER LOADS.
4. PROVIDE PARTITION BACKING AT ITEMS SUCH AS SHELVING, MILLWORK, WALL-MOUNTED RESTROOM FIXTURES, HANDRAILS, GRAB BARS, SIGNAGE, TOILET ACCESSORIES, ETC. AS REQUIRED FOR PROPER ATTACHMENT AND AS REQUIRED BY THE CONTRACTOR.

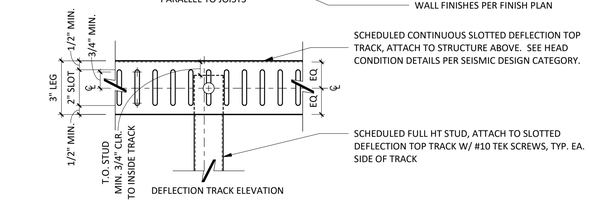
4 A501 TYPICAL PARTITION BACKING

3" = 1'-0"



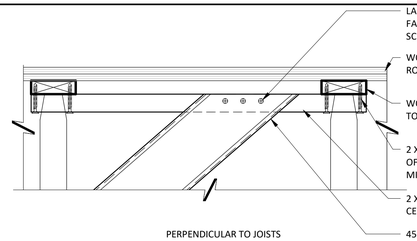
NOTE:
CONFIRM DEFLECTION OF STRUCTURE ABOVE IS < 1-1/4"

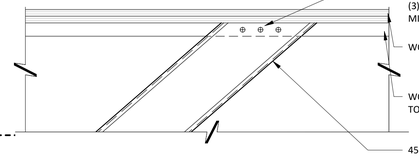




2 A501 DEFLECTION TRACK TO STRUCTURE

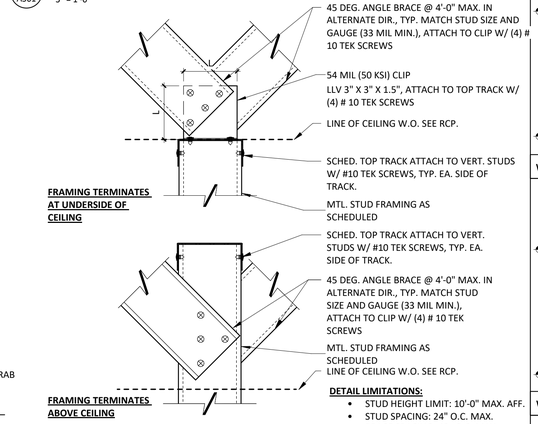
3" = 1'-0"





6 A501 TYP. BRACE TO STRUCTURE DETAIL

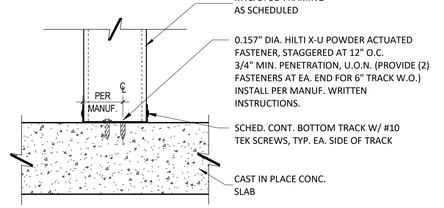
3" = 1'-0"



DETAIL LIMITATIONS:
- STUD HEIGHT LIMIT: 10'-0" MAX. AFF.
- STUD SPACING: 24" O.C. MAX.
- BRACE SPACING: 48" O.C. MAX.
- STUD WALL WEIGHT: 10 PSF MAX.

5 A501 PARTIAL BRACE CONNECTION (WOOD FRAMING)

3" = 1'-0"

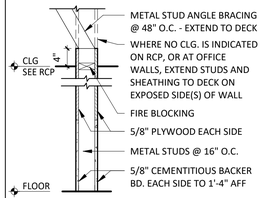


1 A501 TYP. METAL STUD TO FLOOR SLAB CONNECTION

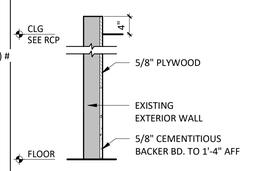
3" = 1'-0"

WALL TYPES

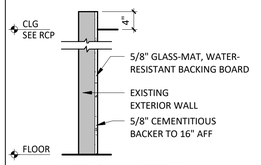
1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES



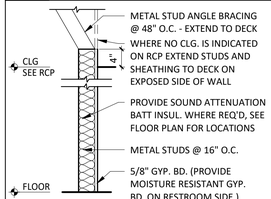
W1 INTERIOR PARTITION



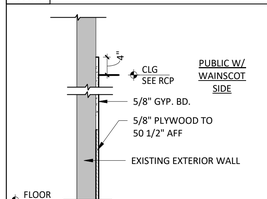
W1ax INTERIOR PARTITION



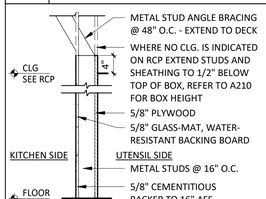
W3ax INTERIOR PARTITION



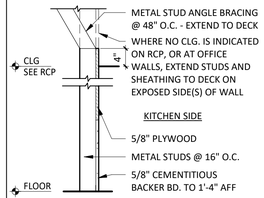
W5a INTERIOR PARTITION



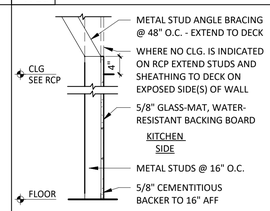
W14ax INTERIOR PARTITION



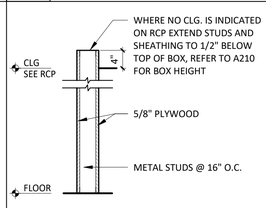
W28 INTERIOR PARTITION



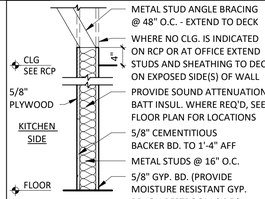
W1a INTERIOR PARTITION



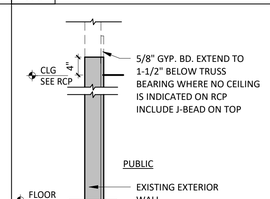
W3a INTERIOR PARTITION



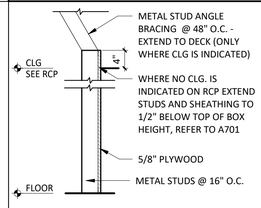
W4 INTERIOR PARTITION



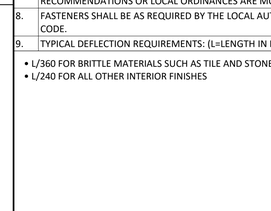
W6 INTERIOR PARTITION



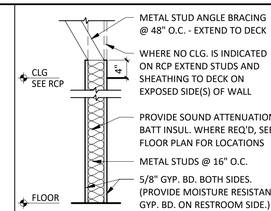
W15ax INTERIOR PARTITION



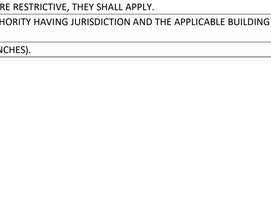
W4a INTERIOR PARTITION



W7 INTERIOR PARTITION



W5 INTERIOR PARTITION



W14 INTERIOR PARTITION

W23 INTERIOR PARTITION

W26a 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	MAX HEIGHT @ 5PSF, L/240	MAX HEIGHT @5PSF, L/360
362S125-30	UP TO 15'-6"	UP TO 13'-6"
362S125-43	UP TO 17'-5"	UP TO 15'-3"
600S125-30	UP TO 22'-11"	UP TO 20'-0"

1. ALL HEIGHTS REFER TO NON-COMPOSITE, FULLY BRACED PARTITIONS.
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. ALL NONSTRUCTURAL INTERIOR WALLS MUST WITHSTAND A MIN. OF 5 PSF LATERAL LOAD AND AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND THE APPLICABLE BUILDING CODE.
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. FASTENERS SHALL BE AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND THE APPLICABLE BUILDING CODE.
9. TYPICAL DEFLECTION REQUIREMENTS: (L=LENGTH IN INCHES).
   - L/360 FOR BRITTLE MATERIALS SUCH AS TILE AND STONE
   - L/240 FOR ALL OTHER INTERIOR FINISHES

Consultant:
INTERIOR ARCHITECTS
NEW YORK
100 BROADWAY 12TH FLOOR
NEW YORK, NY 10005
T: (212) 682-6909

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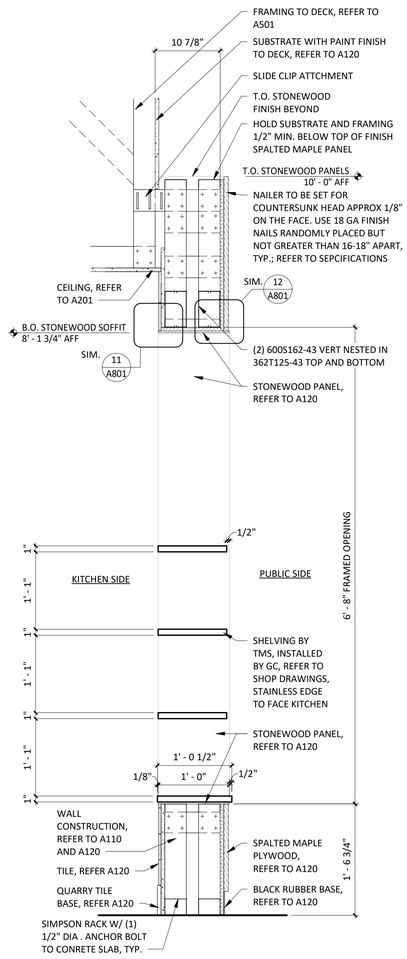
Revisions:

Project No.
24CMGX.0026.000

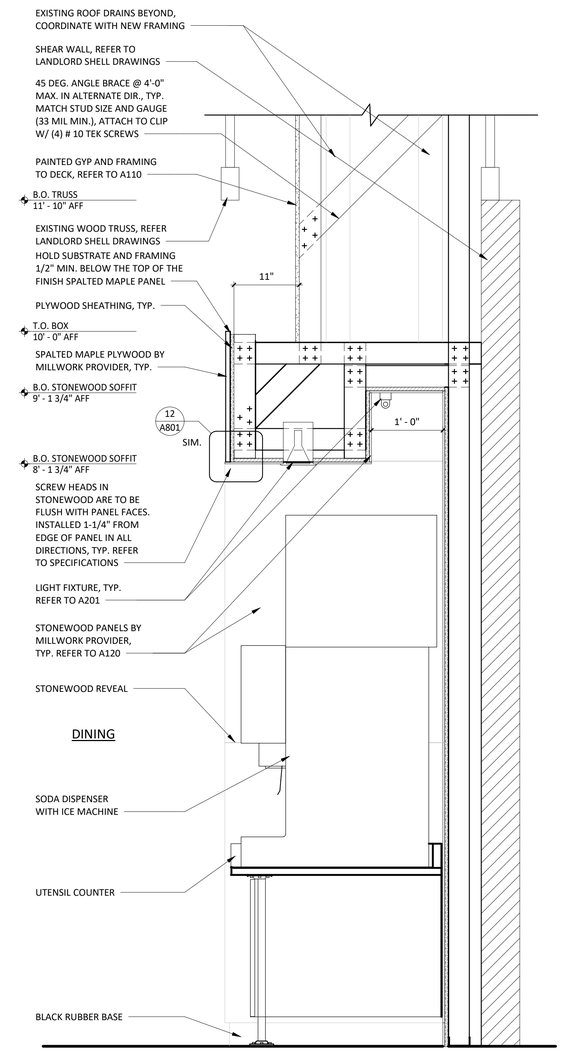
Contents:
ARCHITECTURAL WALL TYPES

A501

3 A502 **SOFFIT DETAIL**
1" = 1'-0"



2 A502 **MOPUS SECTION - PASS THRU**
1" = 1'-0"



1 A502 **UTENSIL SECTION**
1" = 1'-0"

Consultant:
INTERIOR ARCHITECTS
NEW YORK
100 BROADWAY 12TH FLOOR
NEW YORK, NY 10006
T: (212) 682-6909

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Revisions:

Project No.
24CMGX.0026.000

Contents:
INTERIOR SECTIONS

A502

DOOR SCHEDULE

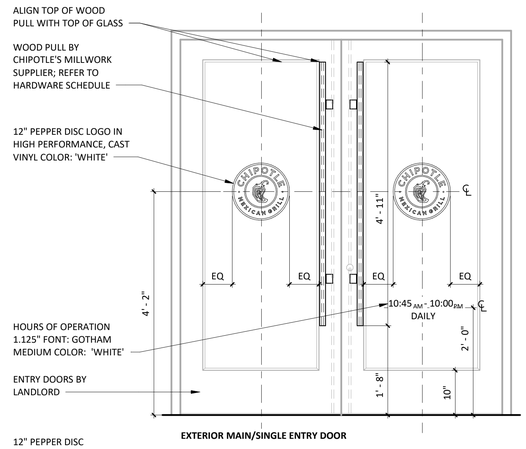
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
2	MAIN ENTRY	NEW	NEW	SINGLE STOREFRONT (WIDE STILE, NON-OFFSET, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D	NEW		1,3,4,5
3	MAIN ENTRY	NEW	NEW	SINGLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D	NEW		1,3,4,5
6	OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4	NEW		
7	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		
8	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		
1E	MAIN ENTRY	EXISTING	EXISTING	DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 4"	7' - 0"	0' - 1 3/4"	-	-	STOREFRONT	ALUM	WIDE (5")	1	EXISTING		1,2,4,5,7
4E	DINING	EXISTING	EXISTING	SINGLE STOREFRONT (WIDE STILE, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	-	-	STOREFRONT	ALUM	WIDE (5")	2A	EXISTING		1,3,4,5
5E	KITCHEN	EXISTING	EXISTING	HM REAR KITCHEN (STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	-	D1 (SEE A120)	STOREFRONT	H.M	WIDE (5")	3	EXISTING		1,4,6

REMARK NOTES

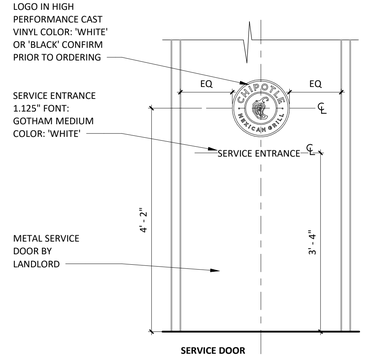
1.	DOORS WITH REMARK #1 TO BE KEYED THE SAME
2.	EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE 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.
7.	WOOD PULL BY TENANT MILLWORK SUPPLIER; INSTALLED BY GC

*IF STATUS IS "EXISTING" G.C TO DETERMINE CONDITION OF EXISTING HADWARE. IF HARDWARE IS IN POOR CONDITION, PROVIDE HARDWARE IN HARDWARE SCHEDULE. CONFIRM REPLACEMENT WITH CHIPOTLE CM.

TYPICAL EXTERIOR DOOR TYPES



EXTERIOR MAIN/SINGLE ENTRY DOOR



SERVICE DOOR

HARDWARE SETS

SET 2D - ENTRY - SINGLE - VESTIBULE		
(1)	HINGE	HAGER, MODEL 780-224HD-83"-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 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

EXTERIOR DOOR HARDWARE

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 4015-18-1B
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 4545-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-76 (SIZE 76")
(2)	WEATHERSTRIP	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

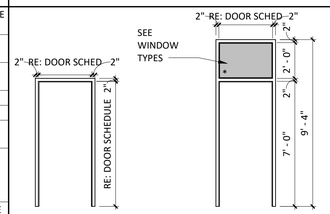
SET 2A - ENTRY - SINGLE - NON-OFFSET - PANIC HARDWARE		
(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE	HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 4545-US32D (ALUMINUM)
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	WEATHERSTRIP	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

SET 3 - REAR EXIT - SINGLE (EXISTING)		
(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 S239A-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 U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	EXIT ALARM	TRINE, MODEL SR64 - PROVIDED AND INSTALLED BY CMG GC
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 66B
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

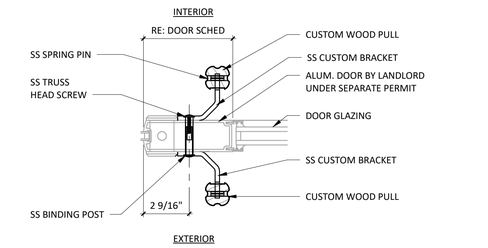
DOOR NOTES

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

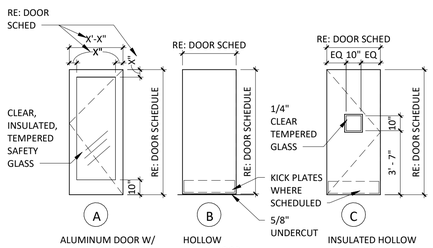
DOOR FRAMES



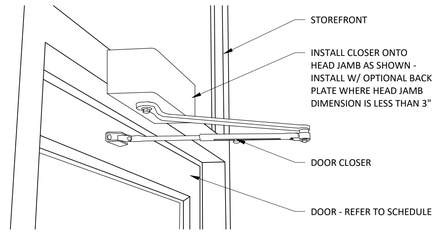
CUSTOM WOOD PULL



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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02/14/24	PERMIT SET
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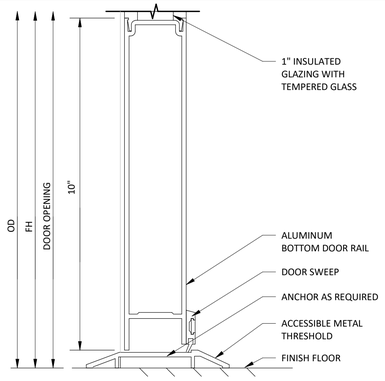
Revisions:

Project No.
24CMGX.0026.000

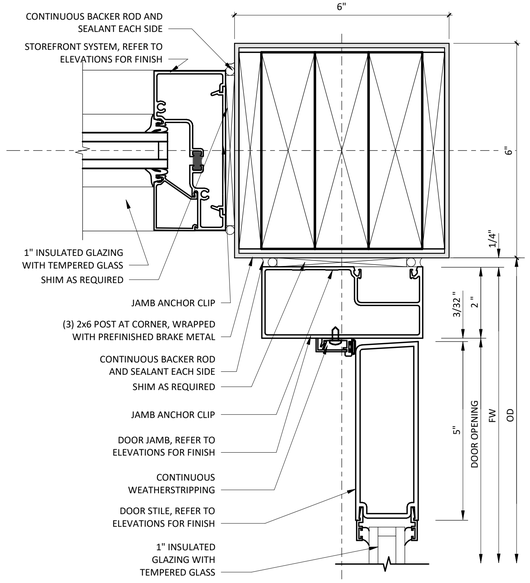
Contents:
DOOR & HARDWARE SCHEDULE

A601

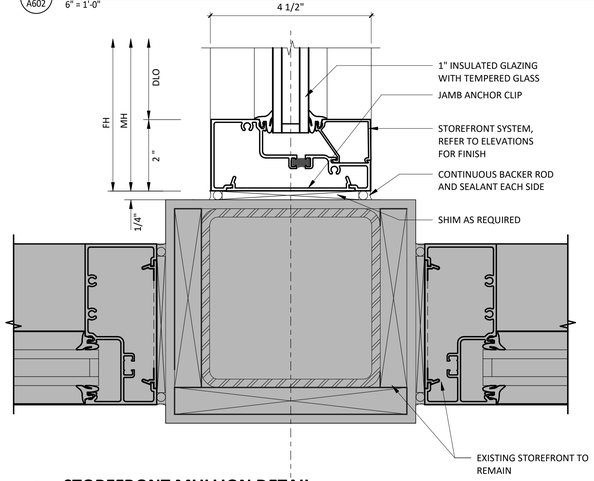
STOREFRONT DETAILS



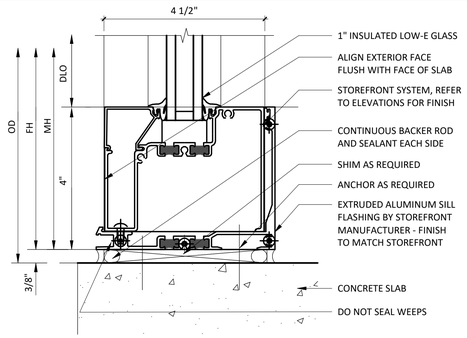
9 A602 **STOREFRONT THRESHOLD DETAIL**
6" = 1'-0"



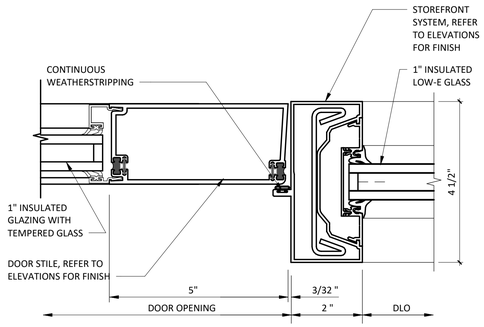
5 A602 **STOREFRONT CORNER DETAIL**
6" = 1'-0"



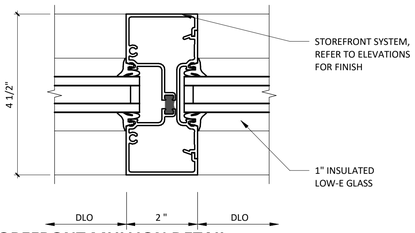
3 A602 **STOREFRONT MULLION DETAIL**
6" = 1'-0"



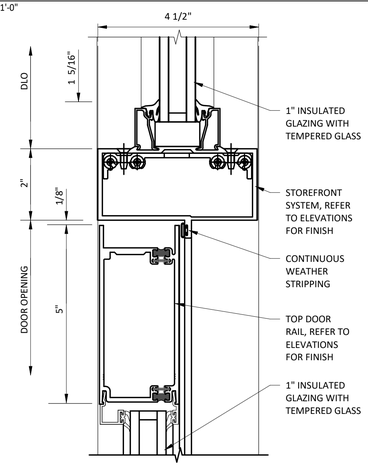
8 A602 **STOREFRONT SILL DETAIL**
6" = 1'-0"



7 A602 **STOREFRONT DOOR JAMB DETAIL**
6" = 1'-0"



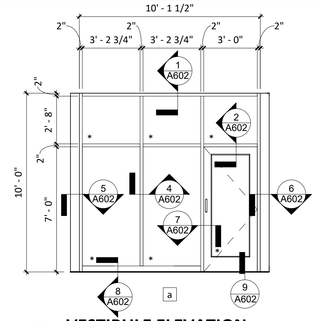
4 A602 **STOREFRONT MULLION DETAIL**
6" = 1'-0"



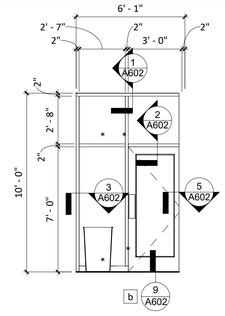
2 A602 **STOREFRONT TRANSOM BAR DETAIL**
6" = 1'-0"

STOREFRONT TYPES

NOTE: ALL VIEWS FROM DINING ROOM



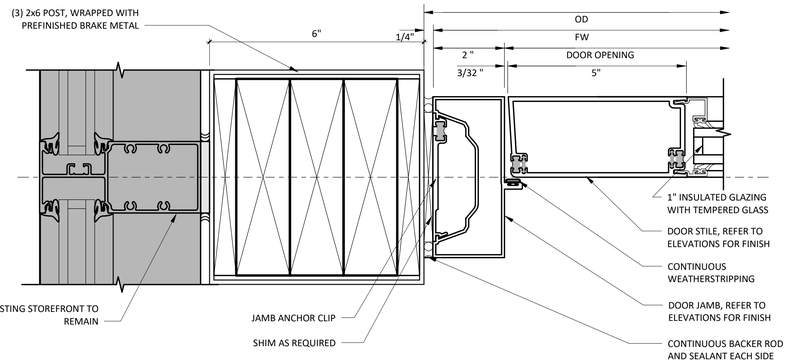
10 A602 **VESTIBULE ELEVATION**
1/4" = 1'-0"



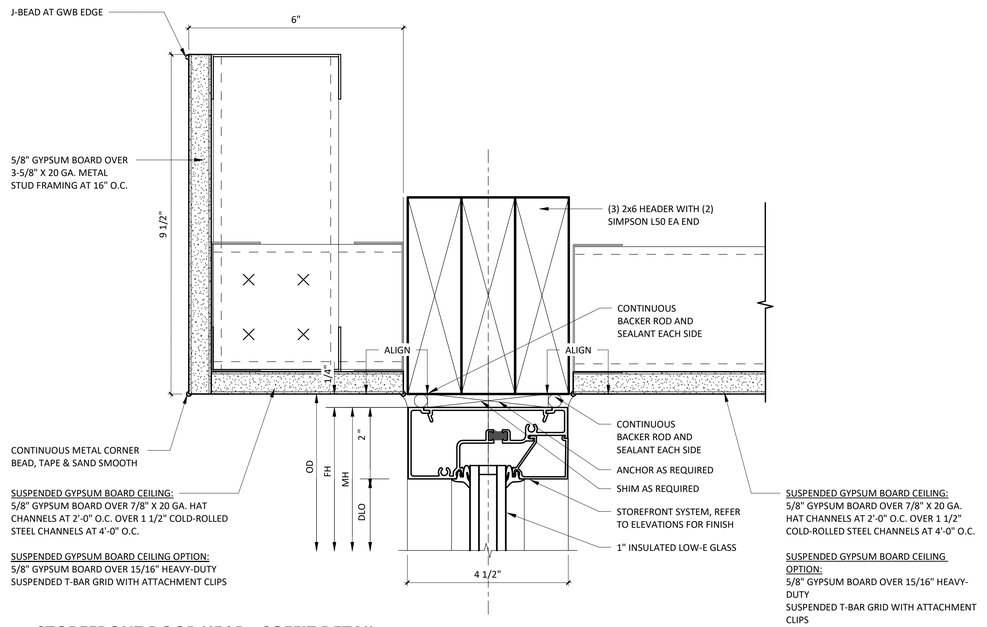
11 A602 **VESTIBULE ELEVATION**
1/4" = 1'-0"

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 4 1/2" NOMINAL DIMENSIONS; CENTER SET, U.O.N.
6. NOT USED.



6 A602 **STOREFRONT DOOR JAMB - MULLION DETAIL**
6" = 1'-0"



1 A602 **STOREFRONT DOOR HEAD - SOFFIT DETAIL**
6" = 1'-0"

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Revisions:

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Contents:
STOREFRONT DETAILS

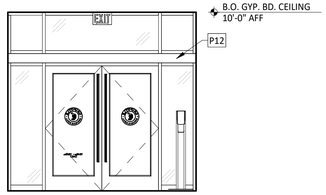
A602

ELEVATION LEGEND

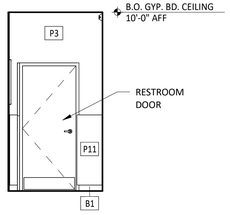
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

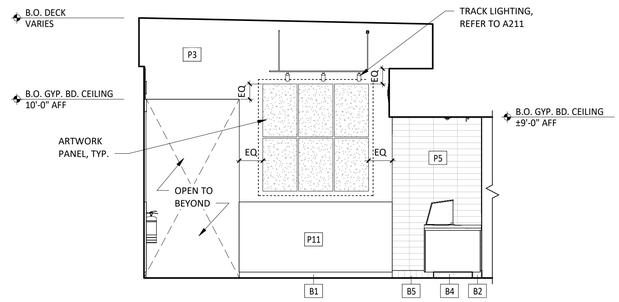
1. REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. REFER TO A120 FOR FINISH SCHEDULE.
3. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



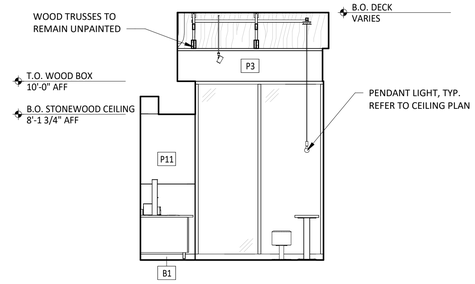
8 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



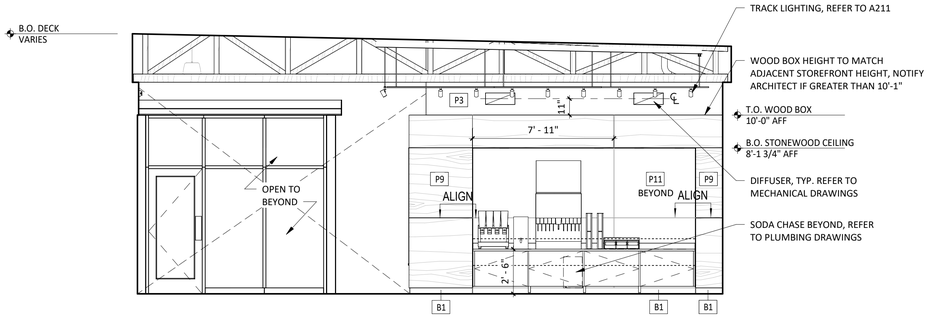
7 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



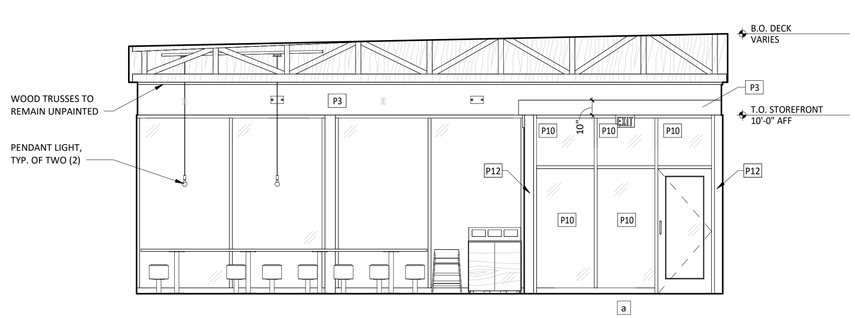
6 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



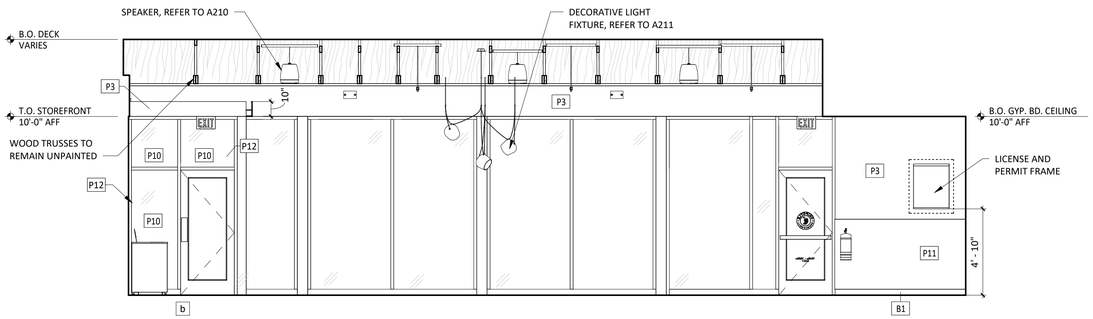
5 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



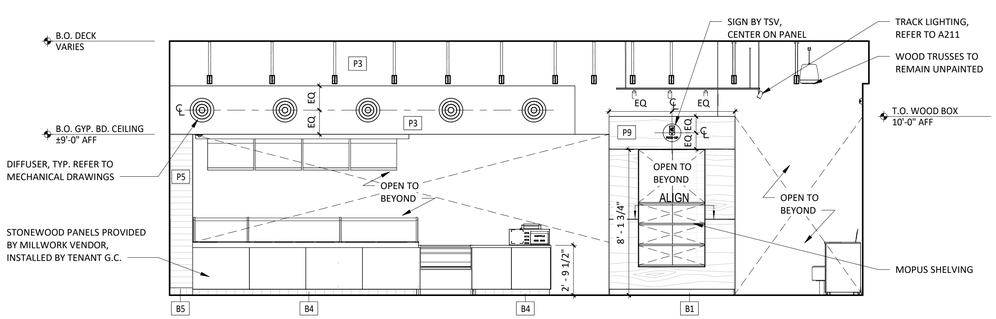
4 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



3 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



2 / A701 **INT ELEV - DINING**
1/4" = 1'-0"



1 / A701 **INT ELEV - DINING**
1/4" = 1'-0"

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Issue Record:

02/14/24	PERMIT SET
07/25/24	BID SET
10/31/24	IFC SET

Revisions:

1	03/25/2024	ADDENDUM #1

Project No.
24CMGX.0026.000

Contents:
ELEVATIONS - INTERIOR DINING

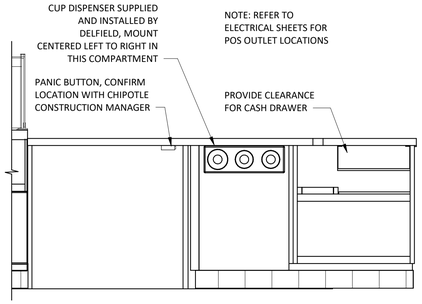
A701

ELEVATION LEGEND

DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

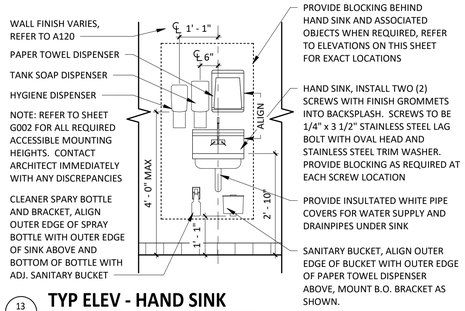
GENERAL NOTES

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.

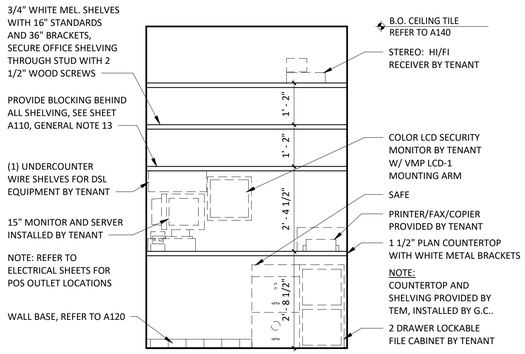


14 A702 **TYP. ELEV - POS**
3/4" = 1'-0"

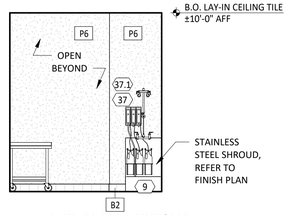
*THIS DETAIL IS FOR HANDSINK ACCESSORY DIMENSIONS ONLY. FOR ACTUAL ORIENTATION OF HAND SINK AND ACCESSORIES, REFER TO KITCHEN ELEVATIONS



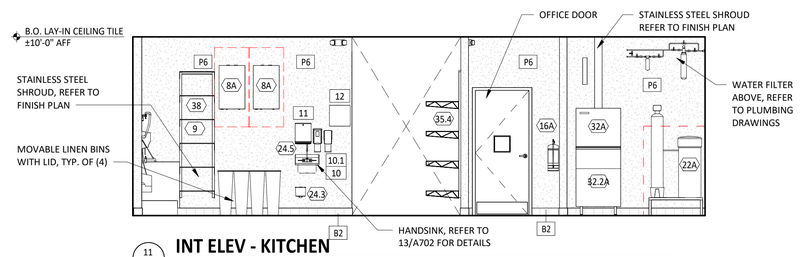
13 A702 **TYP ELEV - HAND SINK**
1/2" = 1'-0"



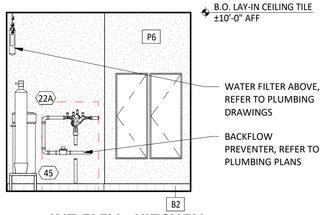
15 A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"



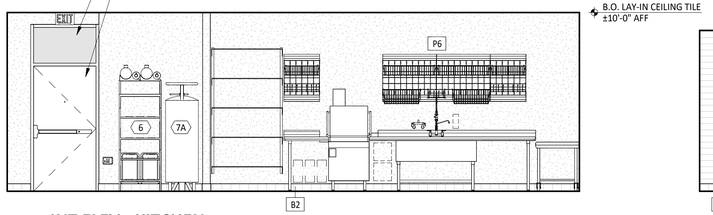
12 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



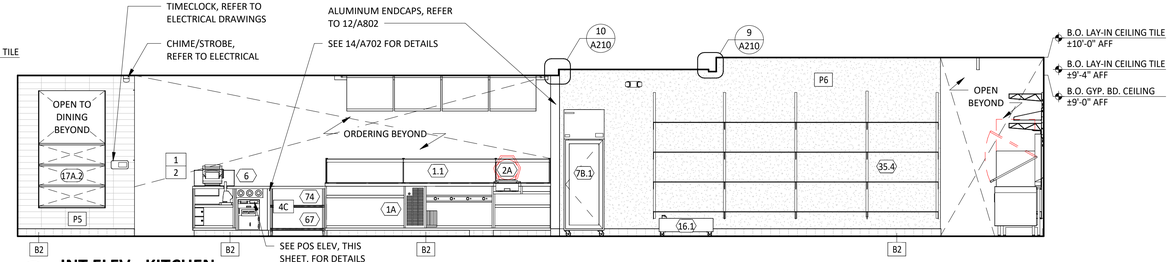
11 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



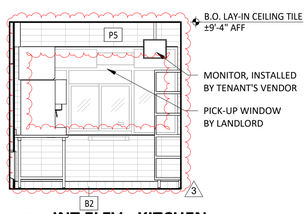
10 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



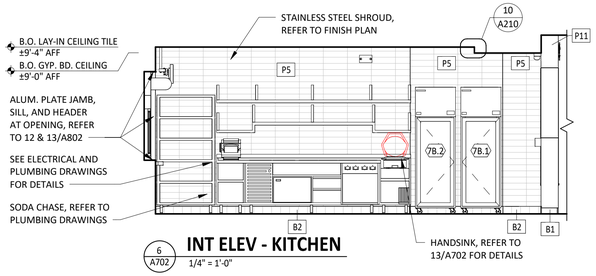
9 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



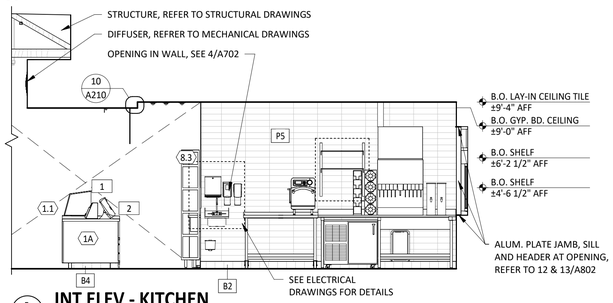
8 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



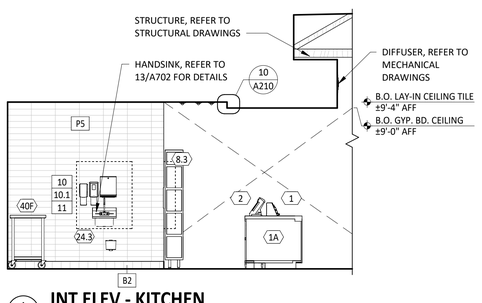
7 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



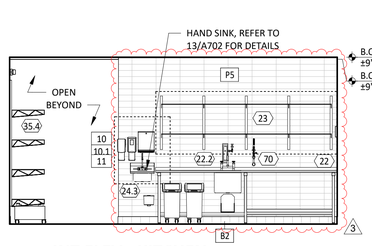
6 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



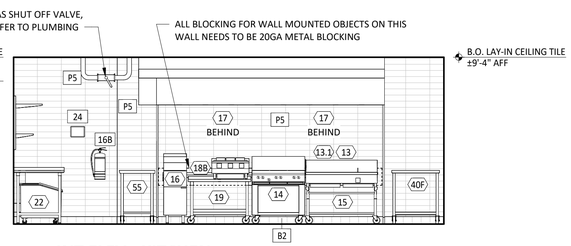
5 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



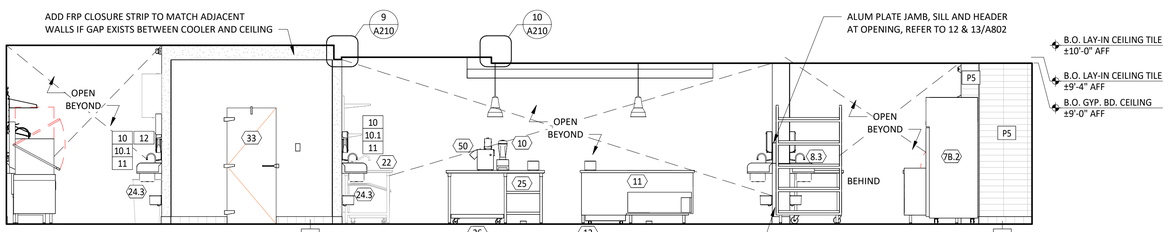
4 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



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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Revisions:

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2	07/30/2024	BULLETIN #1
3	10/31/2024	IFC REVISION

Project No.
24CMGX.0026.000

Contents:
ELEVATIONS - INTERIOR KITCHEN

A702

RESTROOM ACCESSORY SCHEDULE

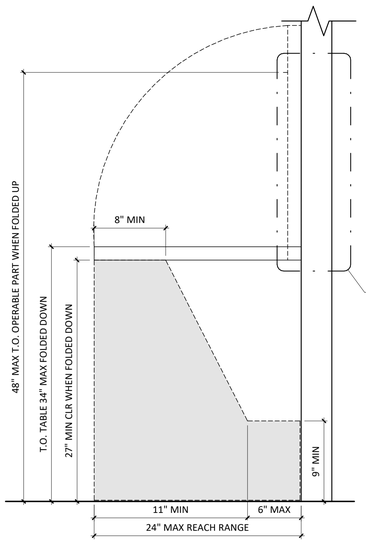
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC					40" AFF to Centerline 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
3	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
14	Restroom Hand Sink	Kohler	K-2084	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.
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	KB200-05	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

GENERAL NOTES

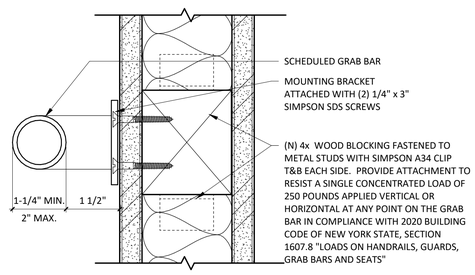
1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTES.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S 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.

ELEVATION LEGEND

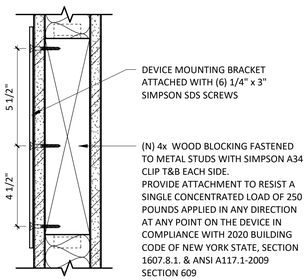
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



14 A710 **BABY CHANGING STATION, TYP.**
1 1/2" = 1'-0"



13 A710 **TYP. GRAB BAR MOUNTING**
6" = 1'-0"



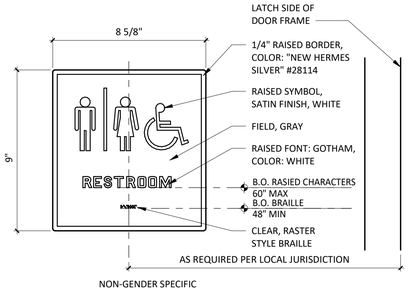
12 A710 **BABY CHANGING TABLE BLOCKING**
3" = 1'-0"

BABY CHANGING STATION INSTALLATION NOTES

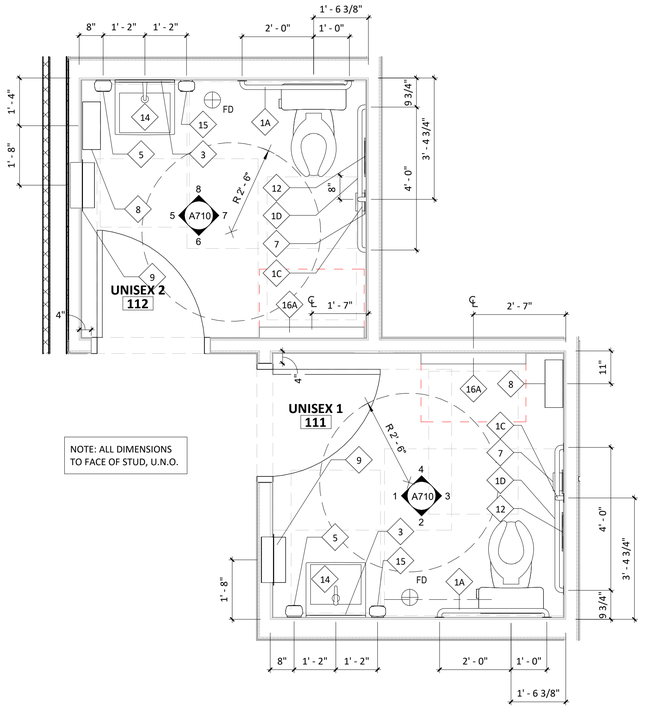
1. CONTRACTOR SHALL INSTALL BABY CHANGING STATION IN ACCORDANCE WITH LOAD REQUIREMENTS SET FORTH IN 2020 BUILDING CODE OF NEW YORK STATE, 1607.8 & ANSI A117.1-2009 SECTION 609. REQUIREMENTS TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE DEVICE.

2. AS REQUIRED BY MANUFACTURER ALL BABY CHANGING STATIONS SHALL BE MOUNTED AND SECURED USING SCREWS AND ATTACHMENT METHODS SUPPLIED BY THE INSTALLER.

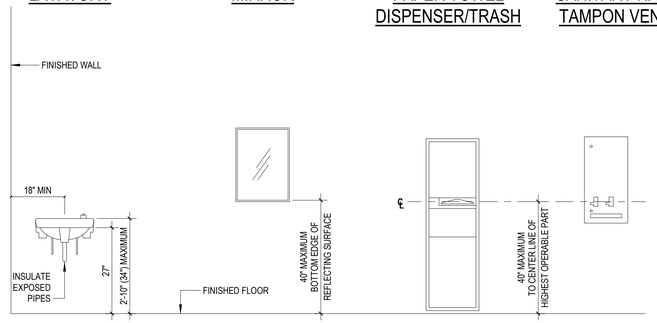
3. ALL MOUNTING HARDWARE MUST BE APPROPRIATE FOR WALL CONSTRUCTION AND WALL ANCHORS/ BACKING/BLOCKING USED MUST PROVIDE ADEQUATE SUPPORT FOR THE INTENDED LOAD REQUIREMENTS AS INDICATED IN 2020 BUILDING CODE OF NEW YORK STATE, 1607.8 & ANSI A117.1-2009 SECTION 609

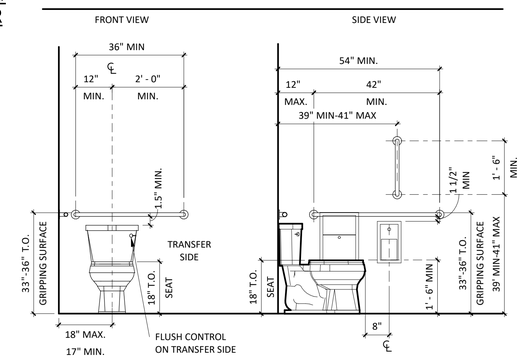


11 A710 **TYP WASHROOM SIGN**
3" = 1'-0"

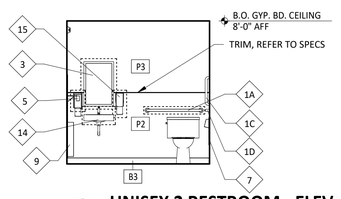


9 A710 **ENLARGED PLAN**
1/2" = 1'-0"

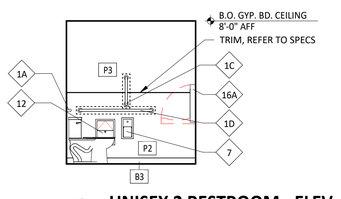




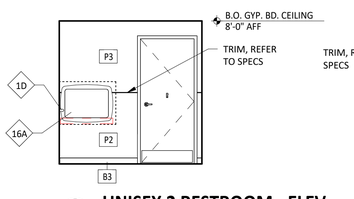
10 A710 **RESTROOM TYPICAL MOUNTING DETAILS**
1/2" = 1'-0"



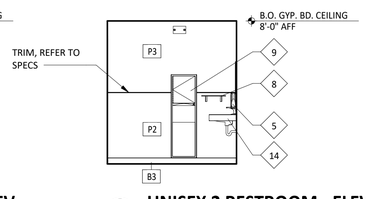
8 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



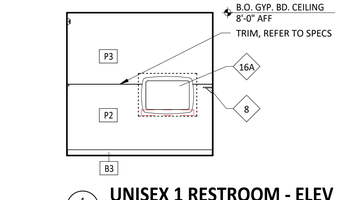
7 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



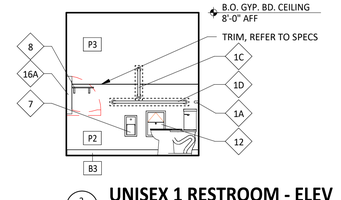
6 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



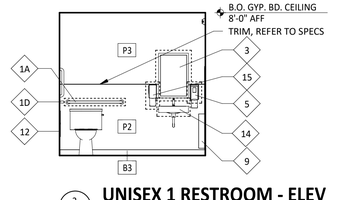
5 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



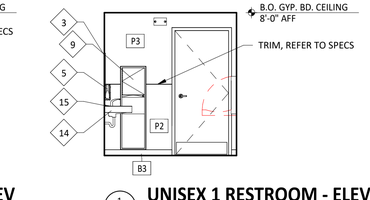
4 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



3 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



2 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"



1 A710 **UNISEX 1 RESTROOM - ELEV**
1/4" = 1'-0"

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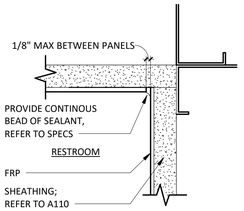
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Revisions:

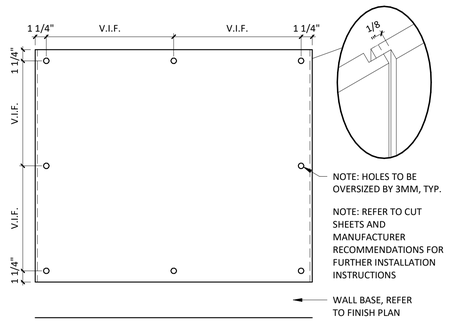
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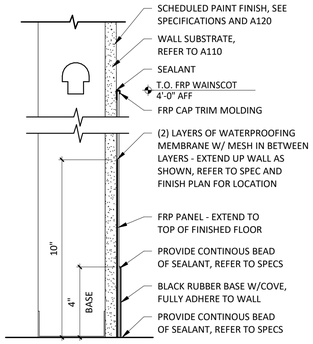
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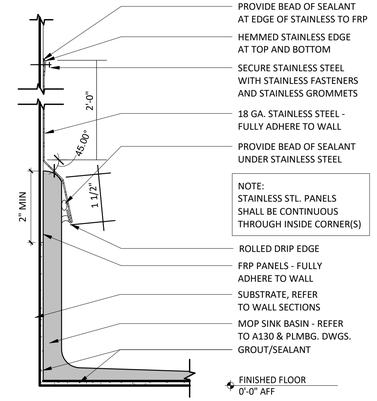
20 A801 **PLAN - RR FRP INSIDE CORNER**
6" = 1'-0"



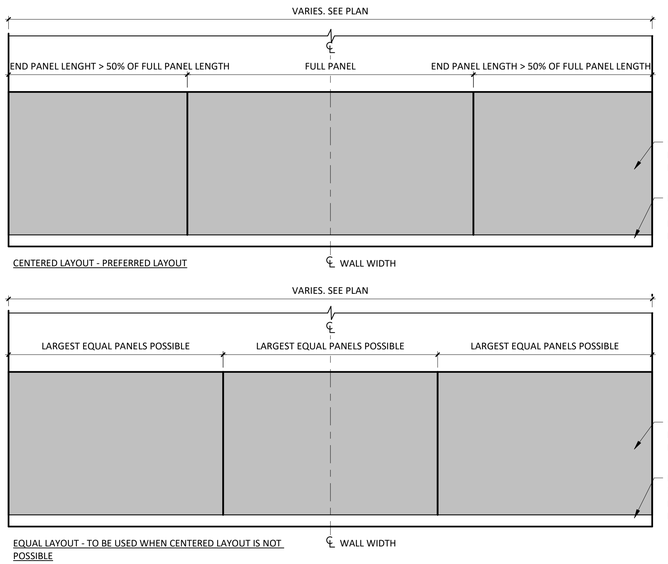
19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"



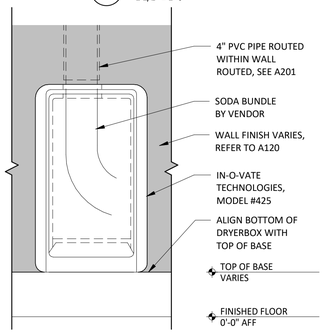
18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"



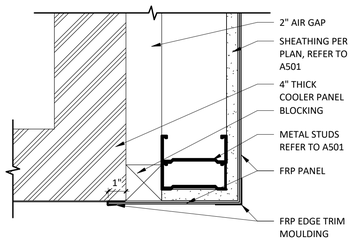
17 A801 **SECTION @ MOP SINK**
6" = 1'-0"



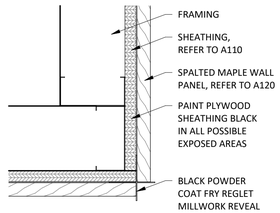
16 A801 **WAINSCOT LAYOUT**
1/2" = 1'-0"



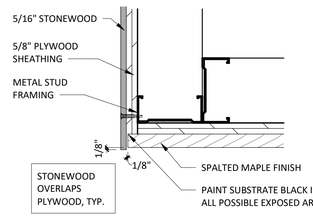
15 A801 **SODA CHASE DETAIL**
1 1/2" = 1'-0"



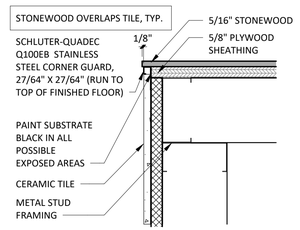
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



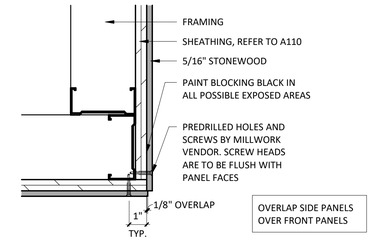
13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"



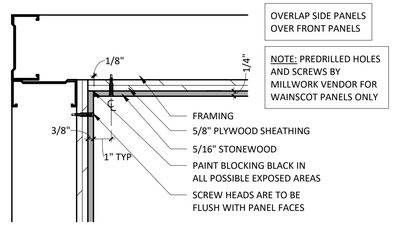
12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"



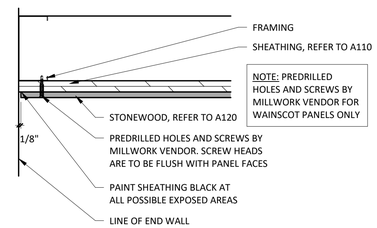
11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"



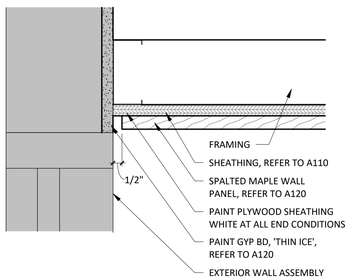
9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"



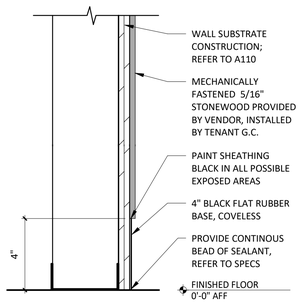
8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"



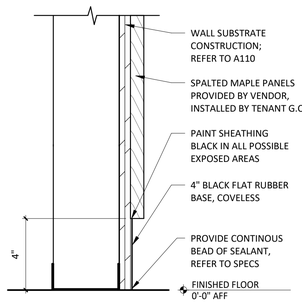
7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"



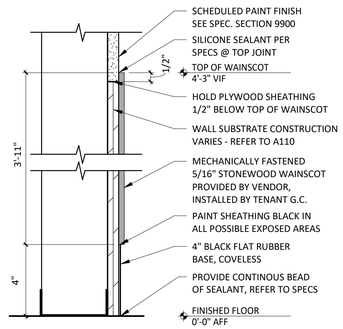
6 A801 **PLAN - WOOD END CONDITION**
3" = 1'-0"



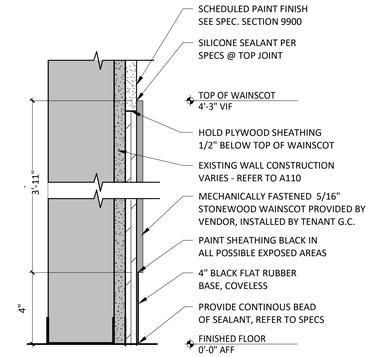
5 A801 **SECTION @ STONEWOOD**
3" = 1'-0"



4 A801 **SECTION @ SPALTED MAPLE**
3" = 1'-0"



3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



2 A801 **SECTION @ WAINSCOT**
3" = 1'-0"

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Project No.
24CMGX.0026.000

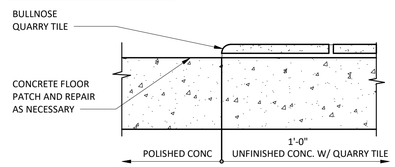
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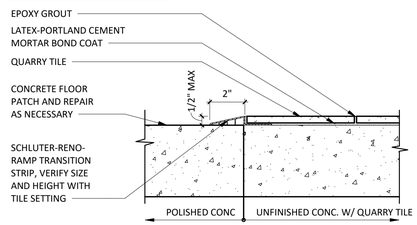
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. 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.

TCNA REFERENCE NUMBER F113-21



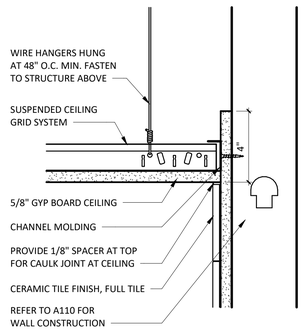
23 A802 **FLOOR TRANSITION @ READY TO DRINK**
3" = 1'-0"

TCNA REFERENCE NUMBER F113-21



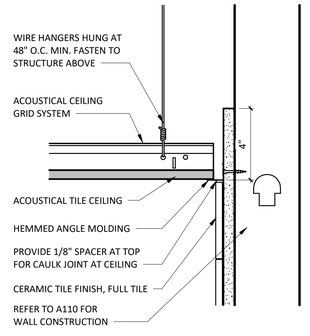
22 A802 **FLOOR TRANSITION W/ RAMP**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21

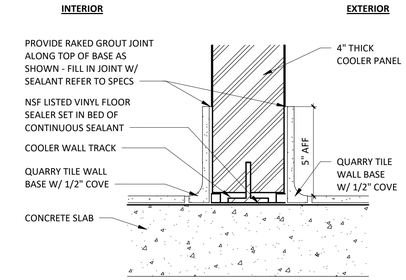


21 A802 **TILE DETAIL @ GYP BD CEILING**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21

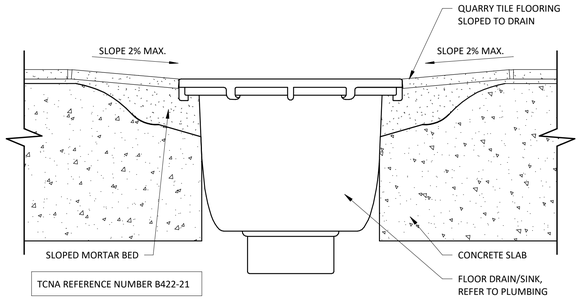


20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



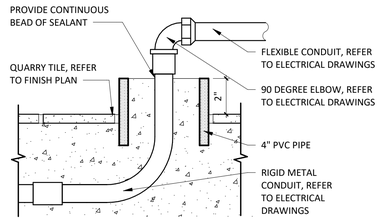
19 A802 **COOLER WALL @ QT**
3" = 1'-0"

TCNA REFERENCE NUMBER F113-21

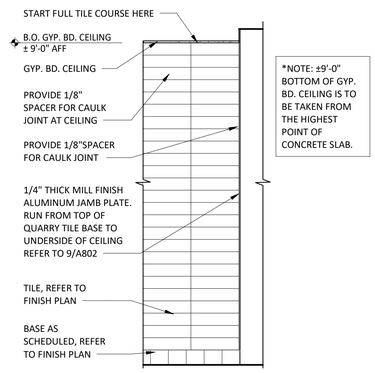


TCNA REFERENCE NUMBER B422-21

18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"

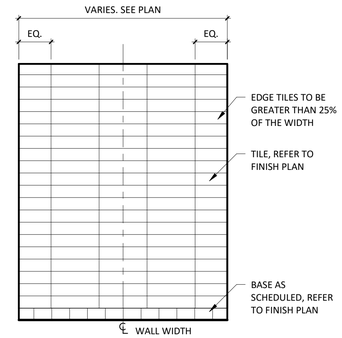


17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"

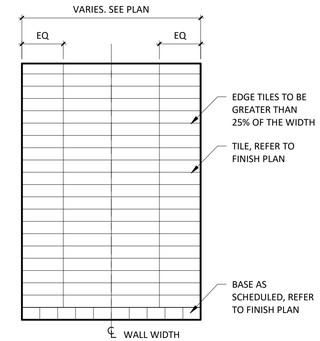


*NOTE: ±9'-0" BOTTOM OF GYP. BD. CEILING IS TO BE TAKEN FROM THE HIGHEST POINT OF CONCRETE SLAB.

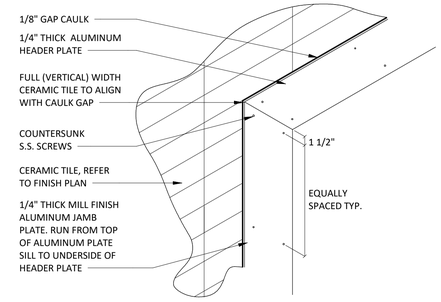
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



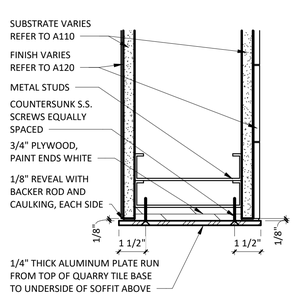
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"

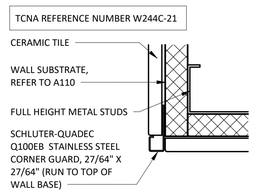


13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



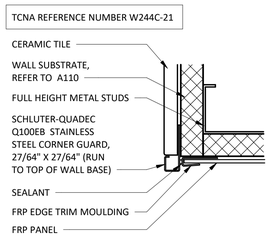
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21



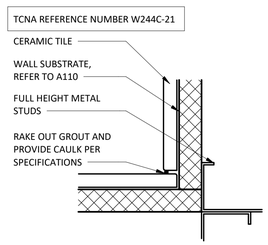
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"

TCNA REFERENCE NUMBER W244C-21

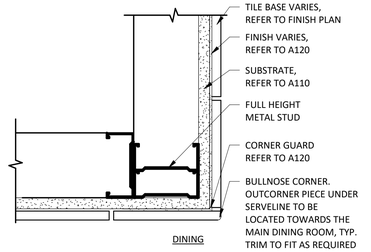


10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"

TCNA REFERENCE NUMBER W244C-21

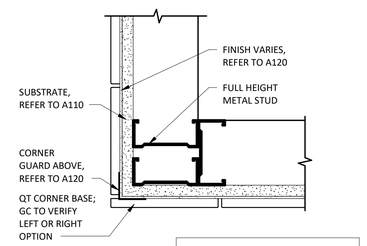


9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



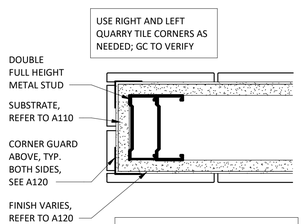
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21



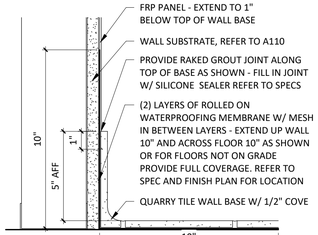
TCNA REFERENCE NUMBER W244C-21

7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



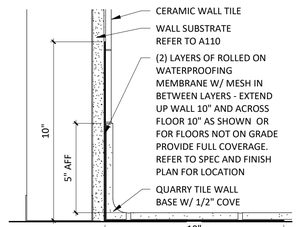
TCNA REFERENCE NUMBER W244C-21

6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



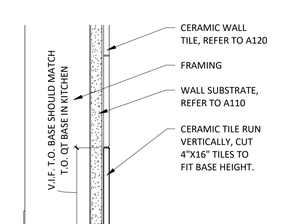
5 A802 **QT BASE @ FRP**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21



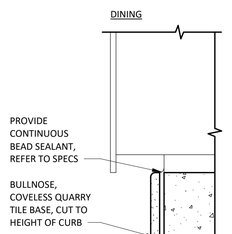
4 A802 **QT BASE @ CERAMIC TILE**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21

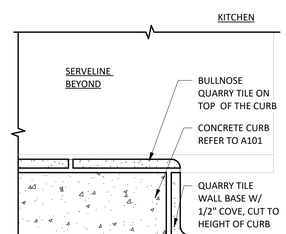


3 A802 **CERAMIC TILE BASE**
3" = 1'-0"

TCNA REFERENCE NUMBER W244C-21



2 A802 **QT @ CURB**
3" = 1'-0"



1 A802 **QT @ CURB**
3" = 1'-0"

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10/31/24	IFC SET

Revisions:

Project No.
24CMGX.0026.000

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4 A900 **INTERIOR PERSPECTIVE**



3 A900 **INTERIOR PERSPECTIVE**



2 A900 **INTERIOR PERSPECTIVE**



1 A900 **INTERIOR PERSPECTIVE**

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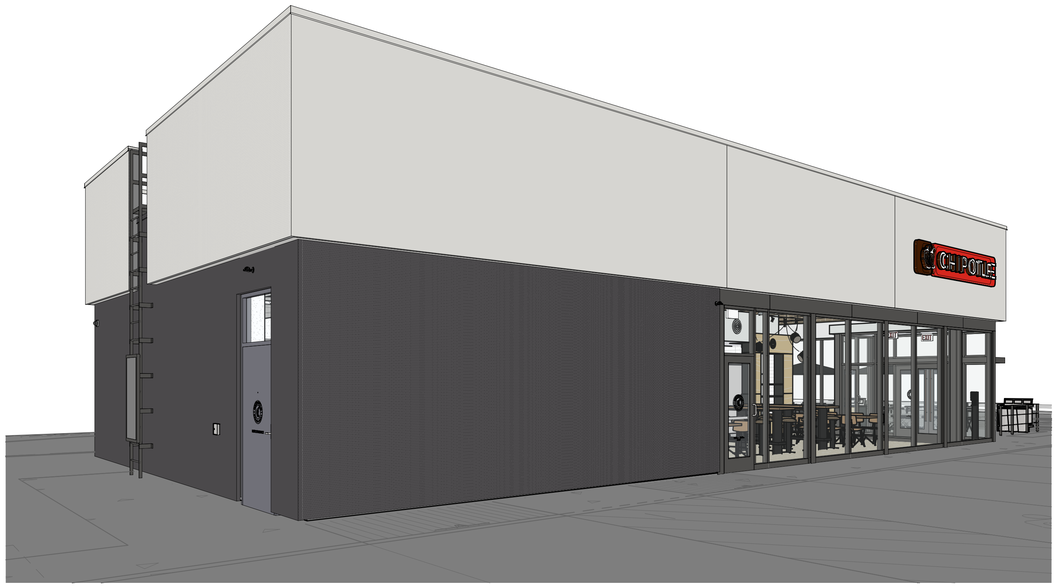
Project No.
24CMGX.0026.000

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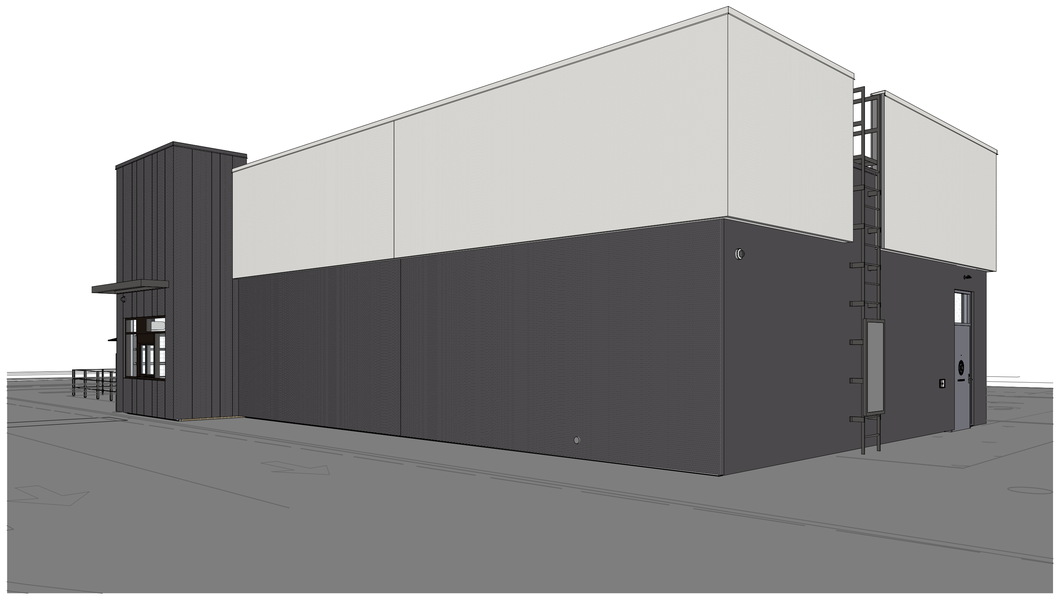
A900



4 A901 **EXTERIOR PERSPECTIVE**



3 A901 **EXTERIOR PERSPECTIVE**



2 A901 **EXTERIOR PERSPECTIVE**



1 A901 **EXTERIOR PERSPECTIVE**

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ABBREVIATIONS

AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
B/	BOTTOM OF
BFB	BOTTOM FLANGE BRACE
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
CFMF	COLD-FORMED METAL FRAMING
CFMT	COLD-FORMED METAL TRUSS
CJ	CONTROL OR CONSTRUCTION JOINT
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CY	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH OR DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ENGR	ENGINEER
EW	EACH WAY
EXP	EXPANSION
FDN	FOUNDATION
FIN	FINISH OR FINISHED
FLR	FLOOR
FRTW	FIRE-RETARDANT TREATED WOOD
FTG	FOOTING
FV	FIELD VERIFY
GA	GAGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
HC	HOLLOW CORE
HORIZ	HORIZONTAL
ID	INSIDE DIMENSION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
JT	JOINT
L	ANGLE
LGMF	LIGHT GAGE METAL FRAMING
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPNG	OPENING
OPP	OPPOSITE
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENER
PC	PRECAST
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
REF	REFERENCE
REINF	REINFORCING OR REINFORCED
REQ'D	REQUIRED
SCH	SCHEDULE
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SL	SLOPED
SLBB	SHORT LEG BACK-TO-BACK
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SY	SQUARE YARD
SYM	SYMMETRICAL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
T/	TOP OF
TEMP	TEMPORARY OR TEMPERATURE
TYP	TYPICAL
UN	UNLESS NOTED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERTICAL
W	WIDE FLANGE
W/O	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

GENERAL STRUCTURAL NOTES

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE ERECTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL IS TO REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.
2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.
3. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.
4. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS.
5. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL".
6. SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.
7. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.
8. CODE INFORMATION

- GOVERNING CODE:	2020 UNIFORM CODE OF NEW YORK STATE
- BUILDING RISK CATEGORY:	CATEGORY II
ROOF LIVE LOADS	
- ORDINARY FLAT, PITCHED, AND CURVED ROOFS	20 PSF
- FABRIC AWNINGS AND CANOPIES	5 PSF
SNOW LOADS	
- GROUND SNOW LOAD (Pg)	40 PSF
- FLAT ROOF SNOW LOAD (Pf)	33 PSF
- SNOW EXPOSURE FACTOR (Ce)	1.0
- SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
- THERMAL FACTOR (Ct)	1.0
- SNOW DRIFTING	REF PLAN
WIND LOADS	
- WIND IMPORTANCE FACTOR	1.0
- BASIC ULTIMATE WIND SPEED (V ult)	110 MPH
- BASIC ALLOWABLE WIND SPEED (V asd)	85 PSF
- SITE EXPOSURE CATEGORY	C
- INTERNAL PRESSURE COEFFICIENT	+/- 0.18
SEISMIC LOADS:	
- SEISMIC IMPORTANCE FACTOR	1.0
- MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	0.206
- MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	0.061
- SEISMIC SITE CLASS	D
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sds)	0.22
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1)	0.098
- SEISMIC DESIGN CATEGORY	B
- RESPONSE MODIFICATION COEFFICIENT (R)	6.5
- SEISMIC RESPONSE COEFFICIENT (Cs)	0.03
- SEISMIC DESIGN BASE SHEAR (V)	6.31 K
- ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE
- BASIC SEISMIC FORCE-RESISTING SYSTEM:	LIGHT FRAMED WALL SYSTEMS WITH WOOD SHEARWALLS
SPECIAL LOADS	
- INTERIOR WALLS & PARTITIONS	5 PSF HORIZONTAL
- HANDRAIL LOADS (ANY DIRECTION)	50 PLF/200# CONC.
GEOTECHNICAL:	
- GEOTECHNICAL ENGINEER:	DANIEL G. LOUCKS, P.E.
- REFERENCE REPORT I.D. OR NUMBER:	4345
- REFERENCE REPORT DATE:	06/29/2023
- ALLOWABLE DESIGN BEARING PRESSURE:	2,500 PSF
- FOUNDATION TYPE:	SHALLOW SPREAD FOOTING

REINFORCED CONCRETE

1. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-16, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".
2. MATERIALS:
   A. STRUCTURAL CONCRETE:

MIX USAGE	f'c (PSI)	MAX w/cm	AIR CONTENT
LEAN CONCRETE	1,500	---	---
INTERIOR SLABS ON GRADE WHICH RECEIVE MOISTURE-SENSITIVE FLOOR COVERINGS	4,000	0.45	---

   B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI.
   C. CEMENT: PORTLAND CEMENT, ASTM C150, TYPE 1. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL.
   D. AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL MIXES UNLESS NOTED OTHERWISE.
   E. ADMIXTURES:
      1. WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D.
      2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G.
   F. AIR-ENTRAINING: ASTM C260.
   G. FLY-ASH: ASTM C618, TYPE C OR F.
   H. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E.
   I. VAPOR RETARDER SHALL CONFORM TO ASTM E1745 "STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS", CLASS A.
   J. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643 "STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 10 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE OR ADHESIVE.
3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, SP-15 IN THE FIELD OFFICE AT ALL TIMES.
4. SUBMITTALS:
   A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
   B. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
   C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.
   D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.
5. CONTINGENCIES:
   A. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.
6. SPLICES:
   A. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS.
7. CONSTRUCTION JOINTS:
   A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.
8. FINISHES:
   A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f)=30 AND LEVELNESS F(l)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
   B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED FINISH.
   C. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
   D. EXTERIOR SLABS - BROOM FINISH.
9. CURING:
   A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
   B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND.
   C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.
10. FIELD QUALITY CONTROL:
   A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT DISCHARGE END.
   B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEREOF, FOR ONE DAY PLACEMENT.
   C. DETERMINE SLUMP FOR EACH STRENGTH TEST.
   D. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.
   E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

TABLE 1
STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
2. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
3. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
4. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT.	---	X
2. INSPECT ANCHORS CAST IN CONCRETE	---	X
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	---
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4.A	---	X
4. VERIFY USE OF REQUIRED DESIGN MIX.	---	X
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE	X	---
6. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES	X	---
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES	---	X
8. INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED	---	X

CONCRETE REINFORCING CLEANCES/COVER
(#3 - #11 BARS)

EXPOSURE CONDITION	MIN. COVER U.N.O.	TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3"	-3/8", +1"
EXPOSED TO EARTH OR WEATHER: #5 AND SMALLER BARS #6 AND LARGER BARS	1 1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND: SLABS, WALLS, BEAMS, COLUMNS, PIERS - TO TIES & STIRRUPS	3/4" 1 1/2"	-1/4", +3/8" -1/4", +1/2"

"-" INDICATES TOLERANCE DECREASE TOWARDS MEMBER FACE.
"+" INDICATES AWAY FROM MEMBER FACE.

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

3,000 psi & 3,500 psi CONCRETE
UNCOATED REINFORCING BARS

BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER
#4	3'-1" / 2'-4"	3'-1" / 2'-4"
#5	3'-10" / 3'-0"	3'-10" / 3'-0"
#6	4'-8" / 3'-7"	4'-8" / 3'-7"
#7	7'-6" / 5'-9"	6'-9" / 5'-2"
#8	9'-3" / 7'-1"	7'-9" / 5'-11"
#9	11'-2" / 8'-7"	8'-8" / 6'-8"
#10	13'-6" / 10'-4"	9'-10" / 7'-6"
#11	15'-10" / 12'-2"	10'-11" / 8'-4"

1. TOP BARS / OTHERS BARS — TOP BARS DEFINED AS HORIZONTAL WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR SCHEDULED OTHERWISE.
3. APPLICABLE ONLY FOR 60ksi STEEL AND NORMAL WEIGHT CONCRETE.
4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

DRAWING INDEX

SHEET NO.	SHEET NAME
S000	GENERAL STRUCTURAL NOTES
S001	TYPICAL DETAILS
S100	FOUNDATION PLAN

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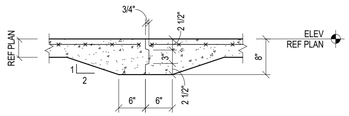
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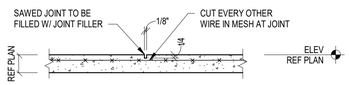
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24CMGX.0026.000

Contents:
GENERAL STRUCTURAL NOTES

S000

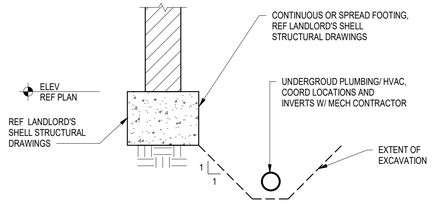


TYPICAL FLOOR CONSTRUCTION JOINT

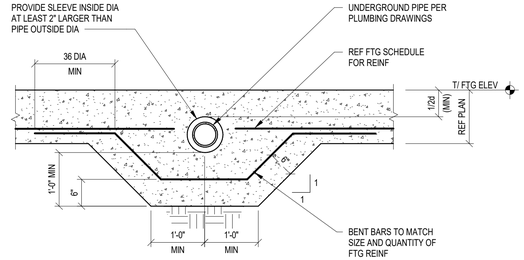


TYPICAL FLOOR CONTROL JOINT

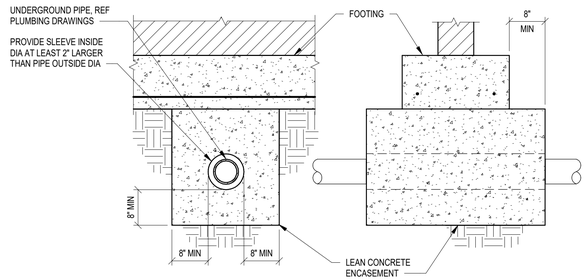
1 TYPICAL FLOOR CONTROL/CONSTRUCTION JOINT
NTS



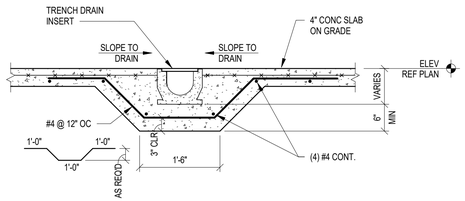
2 TYPICAL EXCAVATION CLEARANCE REQUIREMENTS
NTS



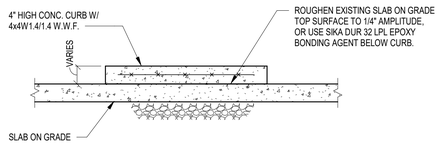
3 TYPICAL THICKENED SLAB AT UNDERGROUND PIPE
NTS



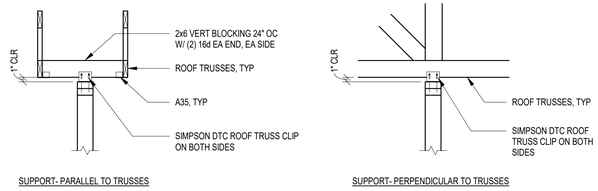
4 TYPICAL PLUMBING UNDER FOOTING DETAIL
NTS



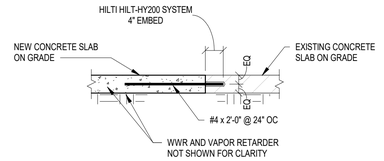
5 TRENCH DETAIL
NTS



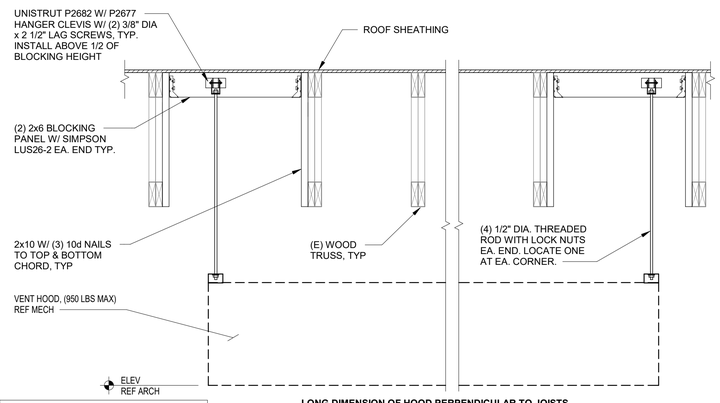
6 CURB DETAIL
3/4" = 1'-0"



7 NON-LOAD BEARING INTERIOR PARTITIONS
NTS



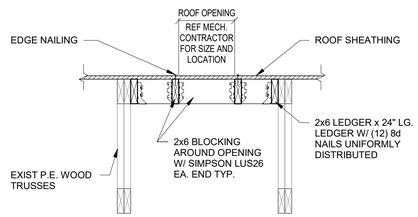
8 NEW SLAB ON GRADE TO EXISTING
3/4" = 1'-0"



LONG DIMENSION OF HOOD PERPENDICULAR TO JOISTS

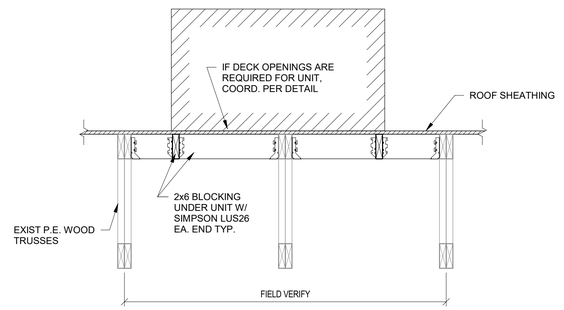
NOTE:
ANALYSIS OF ROOF TRUSSES TO SUPPORT ADDED EQUIPMENT IS BY SHELL BUILDING ENGINEER AND NOT INCLUDED IN BPA SCOPE OF WORK

9 TYPICAL VENT HOOD SUPPORT
3/4" = 1'-0"



NOTE:
ANALYSIS OF ROOF TRUSSES TO SUPPORT ADDED EQUIPMENT IS BY SHELL BUILDING ENGINEER AND NOT INCLUDED IN BPA SCOPE OF WORK

11 TYPICAL BLOCKING AT RTU OPENING
3/4" = 1'-0"



NOTE:
ANALYSIS OF ROOF TRUSSES TO SUPPORT ADDED EQUIPMENT IS BY SHELL BUILDING ENGINEER AND NOT INCLUDED IN BPA SCOPE OF WORK

12 TYPICAL BLOCKING AT RTU
3/4" = 1'-0"

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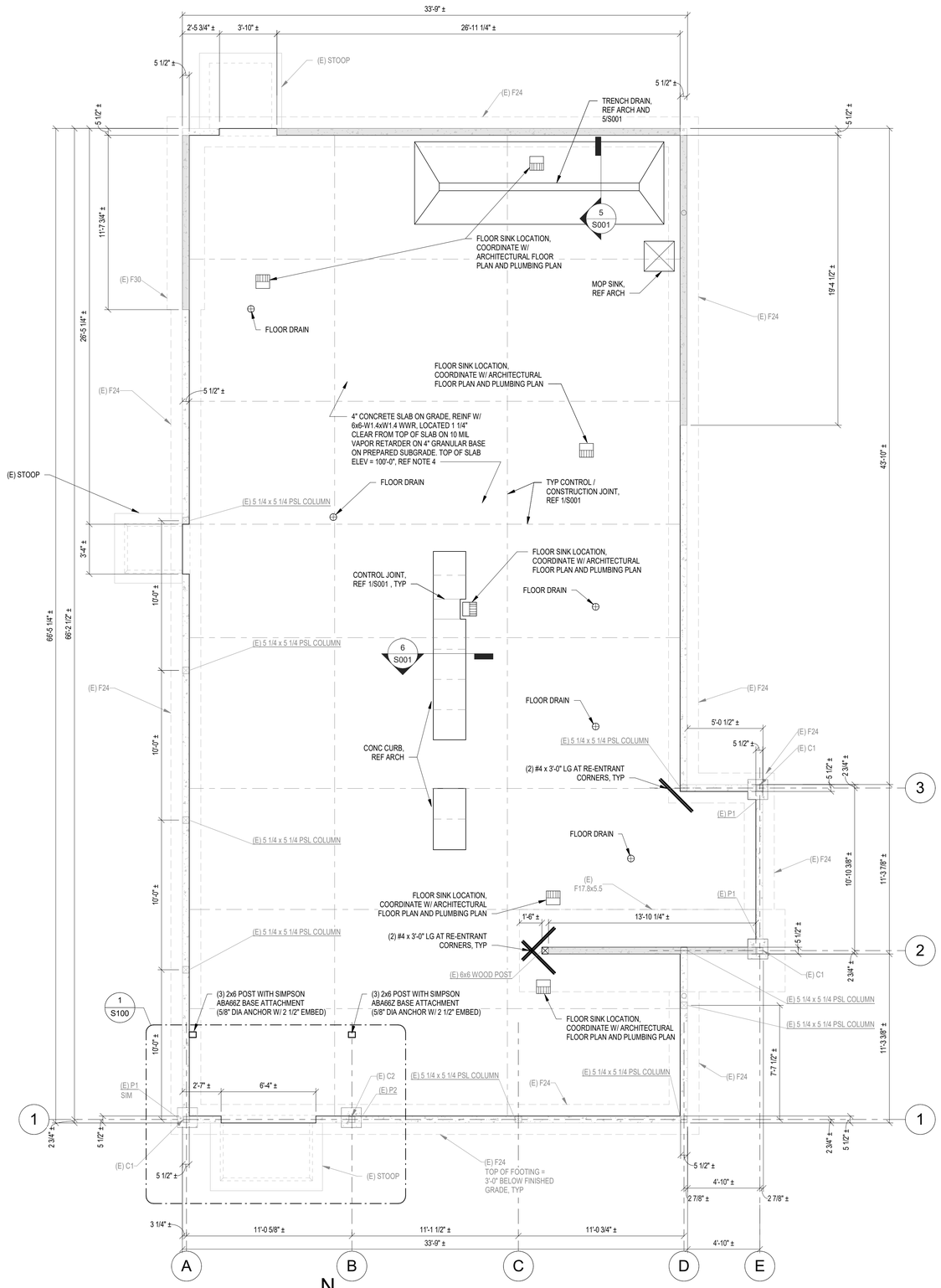
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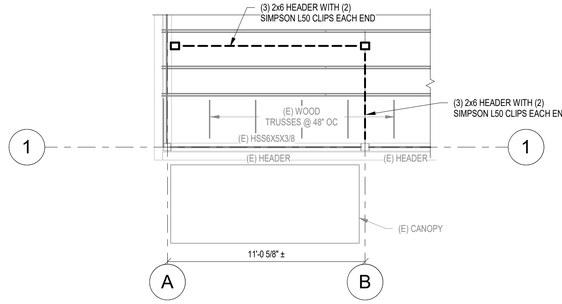
Project No.
24CMGX.0026.000

Contents:
TYPICAL DETAILS

S001



FOUNDATION PLAN
1/4" = 1'-0"



1 PARTIAL FRAMING PLAN AT VESTIBULE
1/4" = 1'-0"

EXISTING CONT WALL FOOTING SCHEDULE

MARK	DIMENSIONS		REINFORCING			
	WIDTH "W"±	THICKNESS "T"±	BOTTOM BARS		TOP BARS	
			LONG	SHORT	LONG	SHORT
(E) F24	2'-0"	1'-0"	(2) #5 CONT	--	--	--
(E) F30	2'-6"	1'-0"	(3) #5 CONT	--	--	--

EXISTING SPREAD FOOTING SCHEDULE

MARK	WIDTH "W"±	LENGTH "L"±	THICKNESS "T"±	REINFORCING			
				TOP		BOTTOM	
				LONG	SHORT	LONG	SHORT
(E) F17.8x5.5	5'-6"	17'-9"	2'-4"	(6) #5	#5 @ 12" OC	(6) #5	#5 @ 12" OC

FOUNDATION PLAN NOTES

1. SEE S000 FOR SOIL BEARING CAPACITY INFORMATION. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. VERIFY LOCATION, SIZE, AND NUMBER OF FLOOR DEPRESSIONS AND FLOOR SLOPES WITH ARCHITECTURAL AND MEP DRAWINGS.
4. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
5. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. FOUNDATIONS BUILT PRIOR TO THE INSTALLATION OF UNDERGROUND UTILITIES ARE TO BE STEPPED OR DROPPED COMPLETELY BELOW THE UTILITY DEPTH PER SECTION 3/S001. WHERE UNDERGROUND UTILITIES ARE IN PLACE PRIOR TO FOUNDATION CONSTRUCTION, THEY ARE TO BE ENCASED PER SECTION 4/S001. REF SECTION 2/S001 FOR TRENCH EXCAVATION AND UTILITY PLACEMENT REQUIREMENTS FOR WORK THAT IS LAID ADJACENT TO FOOTINGS.
6. REF SHEET S000 FOR GENERAL STRUCTURAL INFORMATION.

FOUNDATION PLAN LEGEND

(E)	DENOTES EXISTING BUILDING ELEMENT, FIELD VERIFY
	DENOTES EXISTING SHEARWALL LOCATION.
▼	DENOTES STEP IN FOUNDATIONS
±	DENOTES APPROXIMATE DIMENSION, FIELD VERIFY
(E) WF#.#	DENOTES EXISTING WALL FOOTING, REF SCHEDULE THIS SHEET, FIELD VERIFY
(E) F#.#	DENOTES EXISTING SPREAD FOOTING, REF SCHEDULE THIS SHEET, FIELD VERIFY

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Contents:
FOUNDATION PLAN

S100

BUILDING CODE DATA

	CODE	EDITION
GENERAL	NEW YORK STATE BUILDING CODE	2020
HVAC/MECHANICAL	NEW YORK STATE MECHANICAL CODE	2020
PLUMBING	NEW YORK STATE PLUMBING CODE	2020
ELECTRICAL	NATIONAL ELECTRIC CODE	2017
FIRE PROTECTION	NEW YORK STATE FIRE CODE	2020
	NFPA STANDARDS	CURRENT
FUEL	NEW YORK STATE FUEL AND GAS CODE	2020
ENERGY	NEW YORK STATE ENERGY CONSERVATION CODE	2020
LOCAL AMENDMENTS	N/A	CURRENT

NOTES:
A. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE LISTED CODES, LOCAL CODE AMENDMENTS, AND REFERENCED STANDARDS AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AH J).
B. ALL WORK SUBJECT TO INSPECTION BY THE AHJ AT THE PROJECT SITE FOR COMPLIANCE

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A RESTAURANT TENANT FINISH OF AN EXISTING CORE AND SHELL BUILDING. THE NEW MECHANICAL WORK INCLUDES ROOFTOP UNITS FOR HEATING/COOLING/VENTILATION, COMMERCIAL KITCHEN HOOD SYSTEM WITH GREASE EXHAUST FAN/MAKEUP AIR UNIT, RESTROOM EXHAUST FAN, AND SYSTEM DUCTWORK/AIR DEVICES.

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. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
D. 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

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.
2
L INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING) FURNISHED BY TSV.
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
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
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
TPS	TENANT'S PANELBOARD 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
DUCT-MOUNTED SMOKE DETECTOR
MOTOR-OPERATED DAMPER
MANUAL VOLUME DAMPER
GREASE DUCT CLEANOUT
MITERED CORNER WITHOUT TURNING VANES
GRIDPOINT THERMOSTAT
GRIDPOINT ZONE SENSOR MODULE
GRIDPOINT SUPPLY PROBE
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
AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
GRILL, REGISTER, OR DIFFUSER TAG:
TAG
NECK SIZE
AIRFLOW [CFM]

	REVISION	DATE	CHKD
5			
4			
3		11/07/24	
2	IFC SET	07/29/24	
1	ADDENDUM 1	02/20/24	
0	PERMIT SET		

PROJ. 2304135
DATE: 01/04/2024
CHKD: 01/04/2024

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EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:
M010
HVAC SPECIFICATIONS

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 26/14 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 26/18 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 28/14 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.

7 30/16 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.

8 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.

9 16/16 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 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.

12 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS. BALANCE EACH CONNECTION TO 115 CFM.

13 INSTALL SINGLE-GANG VERTICAL J-BOX FOR 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.

14 INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" 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 66" 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.

HVAC PLAN NOTES

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.

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.

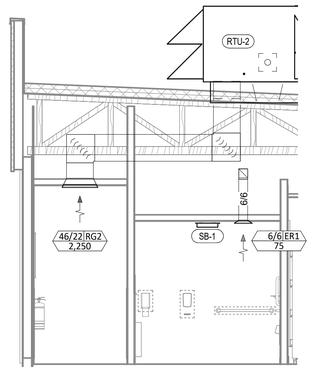
24 PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.

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.

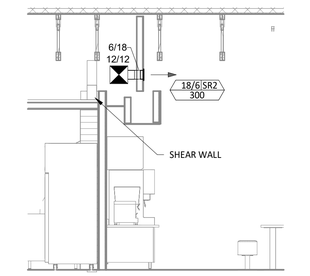
26 INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.

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.

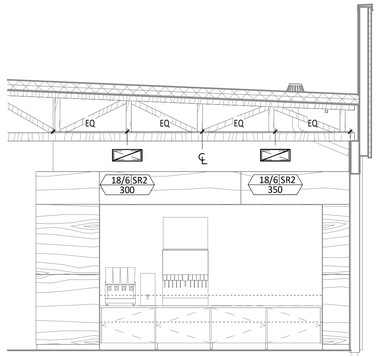
28 ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.



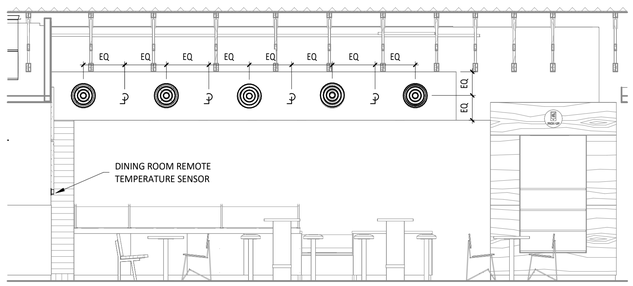
6 M100 **HVAC DINING ROOM RETURN SECTION**
1/4" = 1'-0"



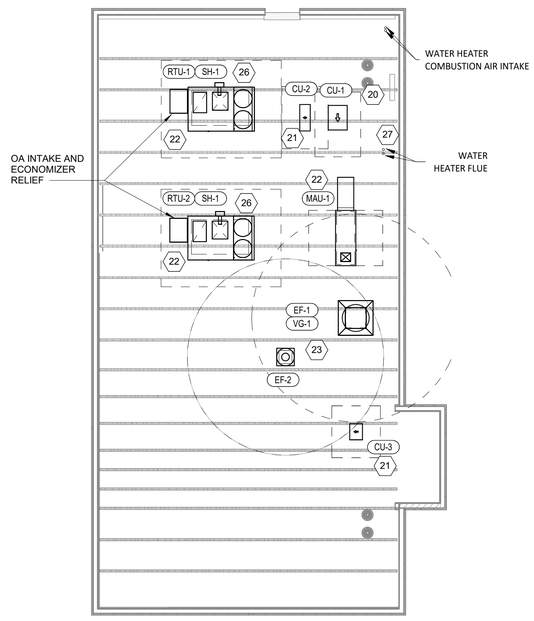
5 M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



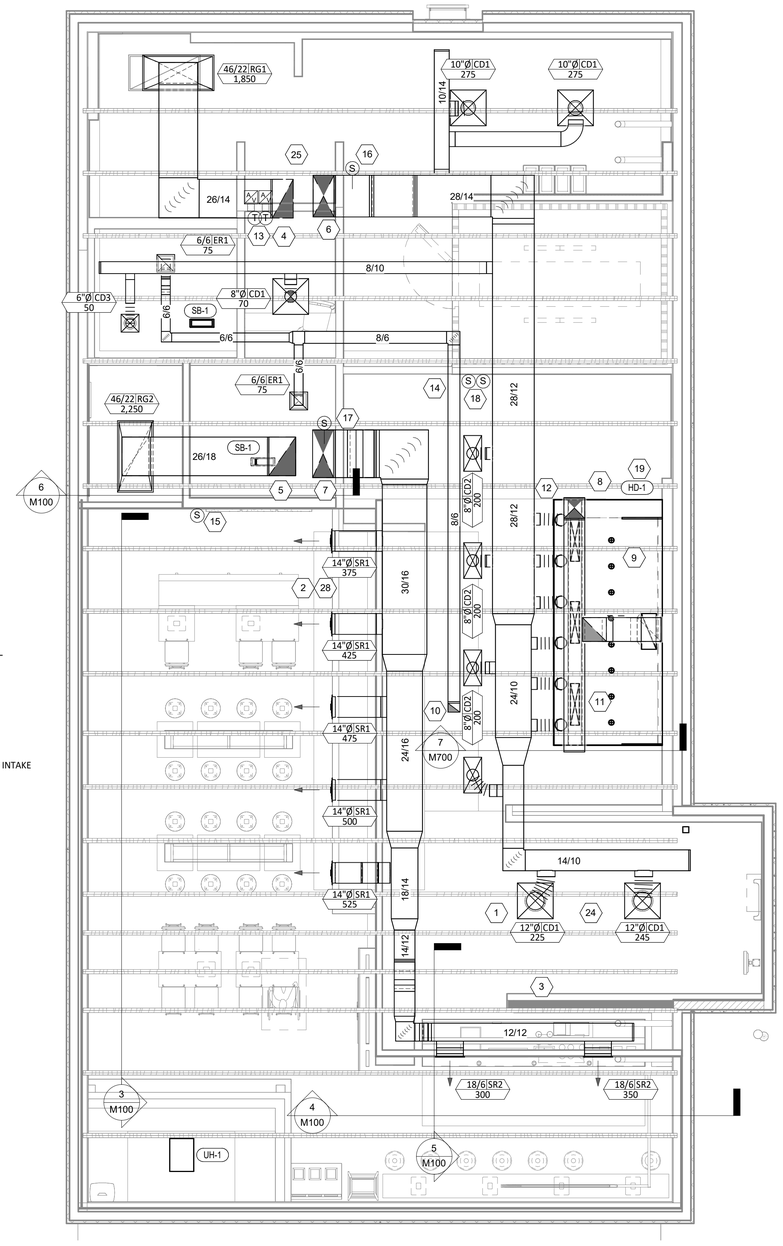
4 M100 **HVAC UTENSIL AREA SECTION**
1/4" = 1'-0"



3 M100 **HVAC DINING ROOM SECTION**
1/4" = 1'-0"



2 M100 **HVAC ROOF PLAN**
1/8" = 1'-0"



1 M100 **HVAC FLOOR PLAN**
1/4" = 1'-0"

	REVISION	DATE	CHKD
5			
4			
3			
2	IFC SET	11/07/24	
1	ADDENDUM 1	07/29/24	
0	PERMIT SET	02/20/24	

PROJ.: 230435
DATE: 01/04/2024
CHKD: 01/04/2024

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RIDGEBACK CENTRAL AVENUE, LLC.

1707 CENTRAL AVE, COLONIE, NY 12205

EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:

M100

HVAC PLAN

VENTILATION CALCULATIONS

Ventilation Calculations Comply with: NEW YORK STATE MECHANICAL CODE

Room Name	Room Area	Room Type	Number of People	CFM/Person	CFM/sqft	Total Required OA CFM	Total Provided OA CFM
FOH (RTU-1)							
Utensil	164	Cafeteria, fast food	6	7.5	0.18	94	**750**
Dining	603	Cafeteria, fast food	32	7.5	0.18	436	
RR Passage	66	Corridors	0	0	0.06	5	
RR 1	62.3	Toilet rooms	0	—	—	0	
RR 2	63	Toilet rooms	0	—	—	0	
Total						**535**	
BOH (RTU-2)							
POS	202	Kitchens (cooking)b	2	7.5	0.12	50	**750**
Cooking + Serving	431	Kitchens (cooking)b	4	7.5	0.12	103	
Office	46	Office spaces	1	5	0.06	10	
Cooler	90	Storage rooms	0	0	0	0	
Kitchen	332	Kitchens (cooking)b	3	7.5	0.12	78	
Total						**241**	

UNIT HEATER SCHEDULE

TAG	DESCRIPTION	MANUFACTURER	MODEL	LOCATION	FAN DATA			ELECTRICAL DATA				NOTES
					AIRFLOW	AIR TEMP. RISE	MOUNT	WATTS	AMPS	VOLTAGE	PHASE	
UH-1	CEILING MOUNTED UNIT HEATER	INDEECO	931U03000V	MAIN ENTRY	160 CFM	45 F	CEILING	2250	11.2	208	1	1, 2

NOTES:
1 PROVIDE WITH BUILT-IN TAMPERPROOF THERMOSTAT.
2 INSTALL UNIT RECESSED INTO VESTIBULE CEILING.

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
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		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST UL762 EXHAUST FAN	2,550 CFM	1.29 in-wg	400 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT, VENTED ROOF CURB, GREASE DRAIN, AND ENVIROMATIC VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM
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 26" CURB

VIROGUARD SCHEDULE

TAG	COUNT	DESCRIPTION	DUCT CONNECTION SIZE	FAN	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER
VG-1	1	VIROGUARD HOOD EXHAUST FAN ROOFTOP CONTAINMENT SYSTEM	16" X 16"	CAPTIVE-AIRE DU180HFA	TDC	GC	ENVIROMATIC

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
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	15 A	9 A	120/1/60	KES	GC	HOSHIZAKI	URC-9F	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER	0	1	R-404A	3.86 lb	100 lb	15 A	9 A	120/1/60	KES	GC	HOSHIZAKI	URC-5F	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	107,546 Btu/h	98,942 Btu/h	-2 °F	495 lb	1 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS										NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			AIRFLOW	E.S.P.	DUCT COLLARS			LENGTH	WIDTH	LENGTH	WIDTH	MAU PLENUM				AC PLENUM								MANUFACTURER	MODEL	
					NO.	WIDTH	LENGTH					AIRFLOW	DUCT COLLARS NO.	DUCT COLLARS WIDTH	DUCT COLLARS LENGTH	AIRFLOW	DUCT COLLARS NO.	DUCT COLLARS DIAMETER							
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	2,550 CFM	0.97 in-wg	1	10"	2' - 0"	12' - 9"	4' - 3"	13' - 9"	1' - 7"	1,300 CFM	3	6"	2' - 4"	690 CFM	6	8"	8	1,150 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION 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			NET COOLING CAPACITY					HEATING CAPACITY			NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	OAT DB	OAT WB	MAT	INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE	CHARGE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
RTU-1	KITCHEN ROOFTOP UNIT	6.5 ton	12.4	2,600 CFM	750 CFM	0.80 in-wg	74,400 Btu/h	57,200 Btu/h	86 °F	70 °F	78.2 °F	180,000 Btu/h	146,000 Btu/h	50.7 °F	2	2	R-410A	11.8 lb	1,477 lb	50 A	36.3 A	208/3/60	HES	GC	YORK	ZT078N18P2B5EAA2A2	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
RTU-2	DINING ROOM ROOFTOP UNIT	7.5 ton	12	3,000 CFM	750 CFM	0.80 in-wg	93,900 Btu/h	68,800 Btu/h	86 °F	70 °F	77.8 °F	180,000 Btu/h	146,000 Btu/h	53.5 °F	2	2	R-410A	12.7 lb	1,280 lb	50 A	33.2 A	208/3/60	HES	GC	YORK	ZJ090N18P25EAA2A3	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

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	2,550 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,300 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	2,600 CFM	1,850 CFM	0 CFM	750 CFM
RTU-2	3,000 CFM	2,250 CFM	0 CFM	750 CFM
NET PRESSURIZATION				100 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	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	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	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 MAKE-UP AIR 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.

	REVISION	DATE	CHKD
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3		11/07/24	
2	IFC SET	07/29/24	
1	ADDENDUM 1	02/20/24	
0	PERMIT SET		

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DATE: 01/04/2024
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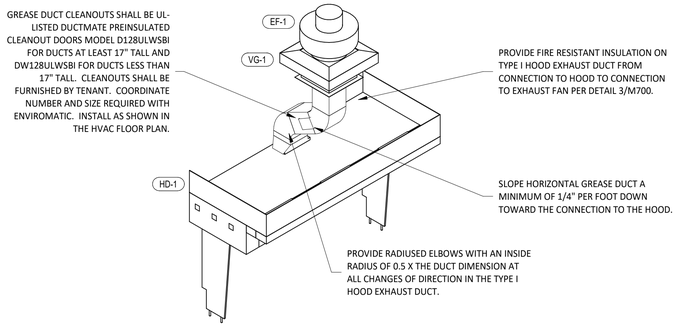
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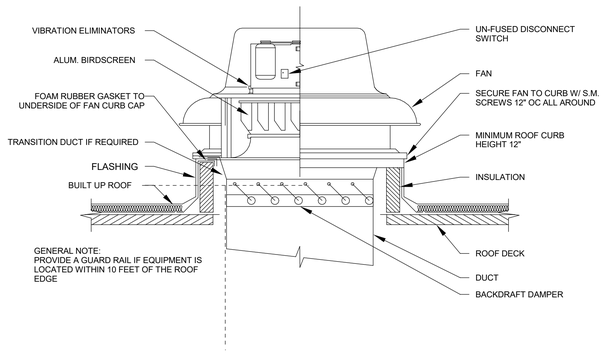
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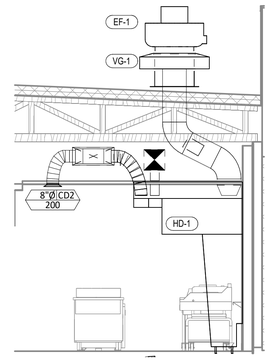
SHEET TITLE:
M600
HVAC SCHEDULES



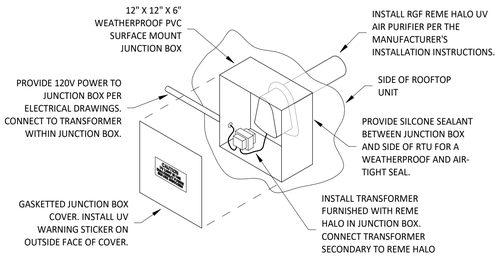
9 M700 **HOOD EXHAUST ISOMETRIC**
NOT TO SCALE



8 M700 **EXHAUST FAN DETAIL**
NOT TO SCALE



7 M700 **DUCT SECTION AT HOOD**
1/4" = 1'-0"



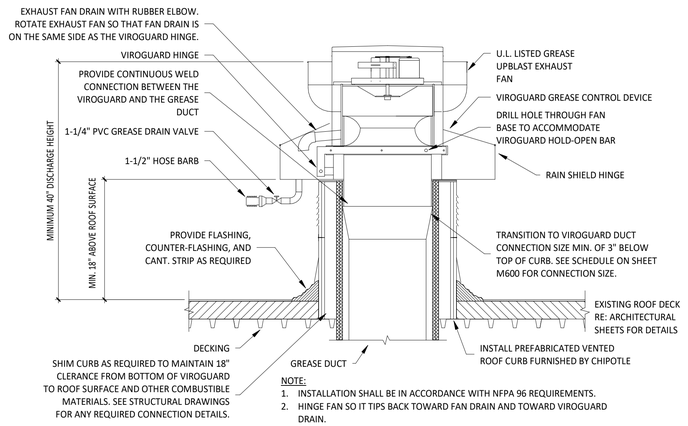
INSTALLATION LOCATION

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:

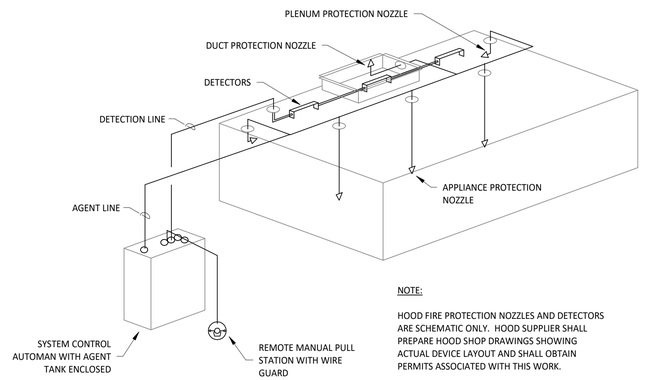
TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.

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



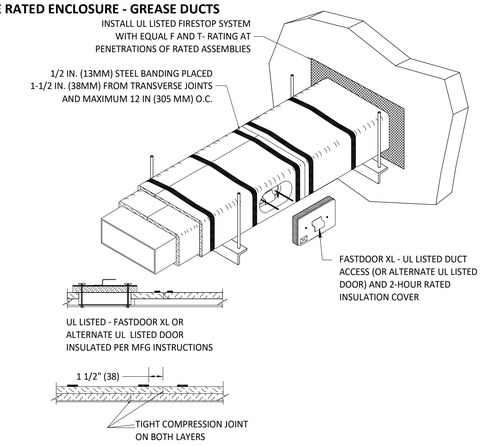
5 M700 **GREASE EXHAUST FAN**
NOT TO SCALE



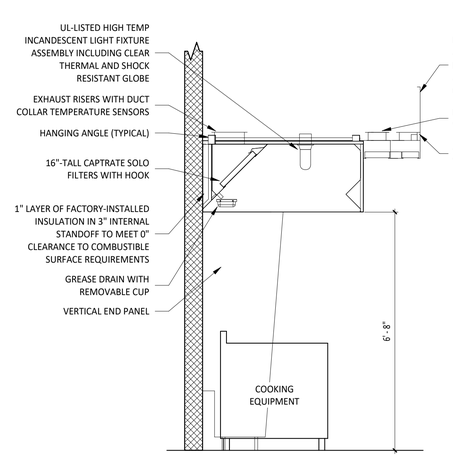
4 M700 **FIRE SUPPRESSION SYSTEM SCHEMATIC**
NOT TO SCALE

FIRE RATED ENCLOSURE - GREASE DUCTS

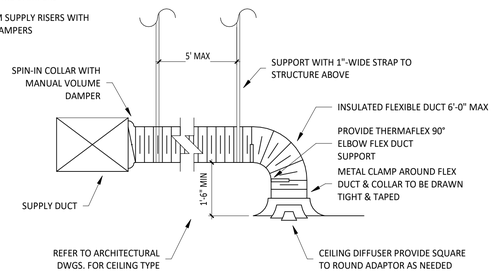
1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL 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



NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1 M700 **DIFFUSER CONNECTION**
NOT TO SCALE

	REVISION	DATE	CHKD
5			
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2	IFC SET	11/07/24	
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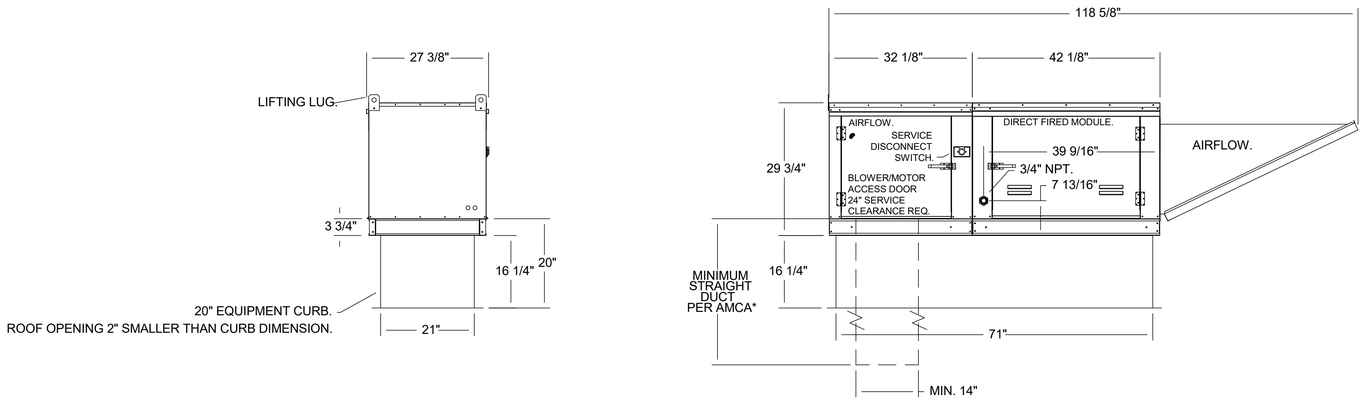
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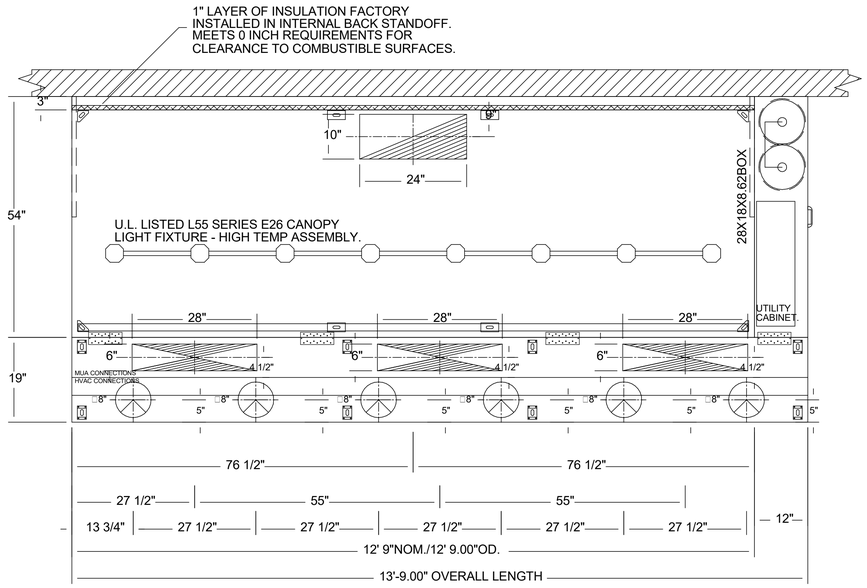
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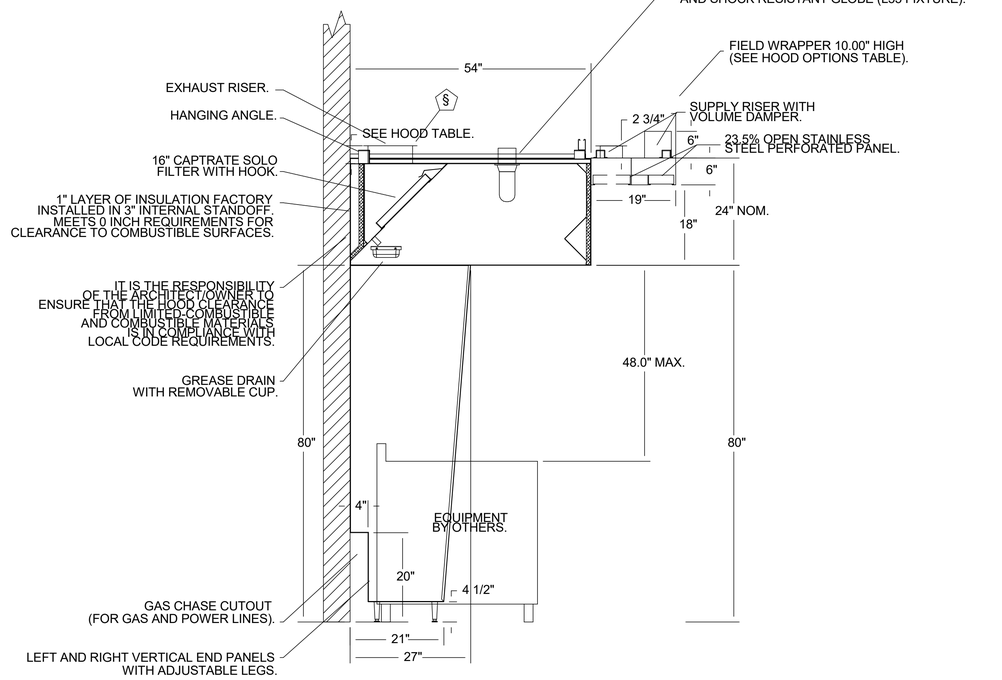
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COLONIE, NY 12205
EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:
M700
HVAC DETAILS



2 M701 **MAU DETAIL**
NOT TO SCALE





1 M701 **KITCHEN HOOD DETAIL**
NOT TO SCALE

	REVISION	DATE	CHKD
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RIDGEBACK CENTRAL AVENUE, LLC.

1707 CENTRAL AVE, COLONIE, NY 12205

EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:

M701

HVAC DETAILS

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 15198 - NATURAL GAS PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIALTIES
A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends.
B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
D. Gas Stops: AGA certified, bronze-body, plug type with bronze plug, for 2-psig or less natural gas. Include AGA stamp, flat or square head or lever handle, and threaded ends complying with ASME B1.20.1.
E. Gas Valves: 150-psig WOG, cast-iron or bronze body, bronze plug, straightaway pattern, square head, tapered-plug type.
F. Gas Pressure Regulators: ANSI Z21.18, single stage, steel jacketed, corrosion resistant pressure regulators. Include atmospheric vent, elevation compensator. Regulator pressure ratings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity are as indicated.
G. Line Gas Pressure Regulators: Inlet pressure rating not less than system pressure.
H. Flexible Connectors: ANSI Z21.24, copper alloy.
I. Strainers: Bronze body, Y-pattern, full size of connecting piping. Include stainless-steel screens with 3/64 inch perforations and a pressure rating of 125-psig- minimum, WOG working pressure.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Close equipment shutoff valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.
B. Install shutoff valve, downstream from gas meter, outside building at gas service entrance.
C. Install gas stops for shutoff to appliances with NPS 2" or smaller low pressure gas supply.
D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas meters. Locate where readily accessible to permit cleaning and emptying. Do not install where condensate would be subject to freezing.
E. Install gas piping at uniform slope of 0.1 percent upward toward risers.
F. Connect branch piping from top or side of horizontal piping.
G. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
H. Install valves in accessible locations, protected from damage.
I. Install gas valve upstream from each gas pressure regulator. Where two gas-pressure regulators are installed in series, valve is not required at second regulator.
J. Connect gas piping to equipment and appliances with shutoff valves and unions. Install gas valve upstream from and within 36 inches of each appliance using gas. Install union or flanged connection downstream from valve.
K. Inspect, test, and purge piping according to NFPA 54, Part 4, "Gas Piping Inspection, Testing, and Purging", and requirements of authorities having jurisdiction.
END OF SECTION 15198

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
RPBP	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
N	CHECK VALVE
	CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
	FLOOR DRAIN
	FLOOR SINK
	CLEANOUT

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
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
TPS	TENANT'S PANELBOARD 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.
Q INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILINGS IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILINGS.

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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EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:
P010
PLUMBING SPECIFICATIONS

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 AND DWH-2 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 PROVIDE NEW GAS METER. SEE CIVIL UTILITY PLAN FOR ON-SITE GAS ROUTING.
8 PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
9 SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
10 PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
11 REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
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 PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
16 CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.

PLUMBING SUPPLY PLAN NOTES

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 PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
20 PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
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. MAKE FINAL CONNECTION TO PREP SINK FAUCET USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
24 PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSABLE SHUTOFF VALVE 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 PROVIDE WATER SERVICE ENTRY PER DETAIL 16/P700.
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)
31 INSTALL WATER SOFTENER PER DETAIL 19/P700.

PLUMBING GAS CONNECTIONS

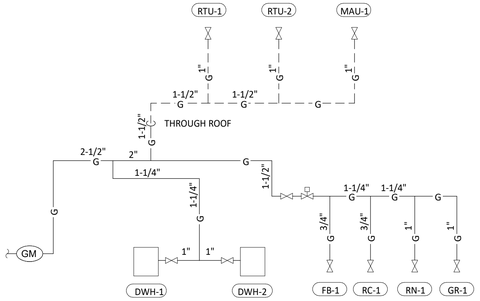
TAG	DESCRIPTION	CONNECTION SIZE	EQUIVALENT LENGTH	INPUT
DWH-1	WATER HEATER (GAS TANKLESS)	3/4"	25'	199,000 Btu/h
DWH-2	WATER HEATER (GAS TANKLESS)	3/4"	25'	199,000 Btu/h
FB-1	GAS FRYER	3/4"	85'	90,000 Btu/h
GR-1	GAS GRIDDLE	3/4"	95'	110,000 Btu/h
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1/2"	90'	107,546 Btu/h
RC-1	RICE COOKER	3/4"	90'	33,000 Btu/h
RN-1	6 BURNER RANGE	3/4"	95'	192,000 Btu/h
RTU-1	KITCHEN ROOFTOP UNIT	3/4"	60'	180,000 Btu/h
RTU-2	DINING ROOM ROOFTOP UNIT	3/4"	85'	180,000 Btu/h
GRAND TOTAL			MAX: 95	1,290,546 Btu/h

NOTES:
1. PRESSURE REQUIRED AFTER METER: 7" W.C.
2. DISTANCES ARE APPROXIMATE

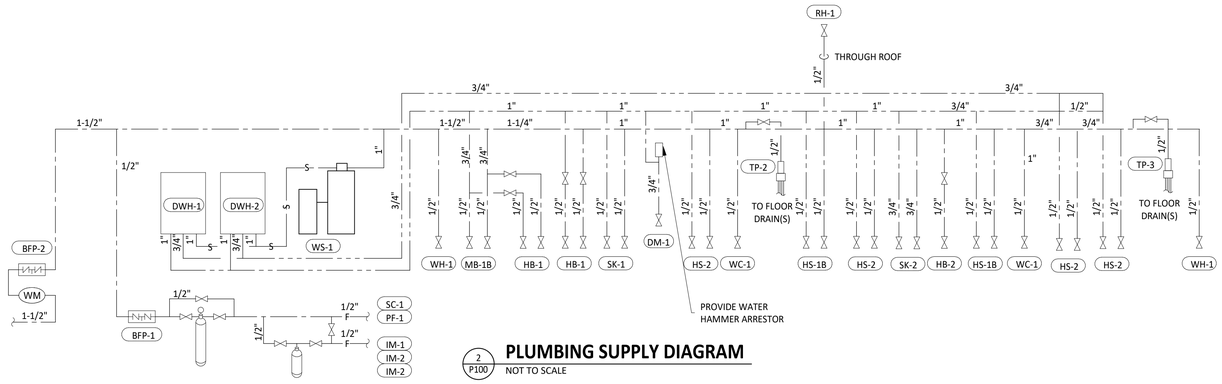
PLUMBING FIXTURE SUPPLY CONNECTIONS

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.

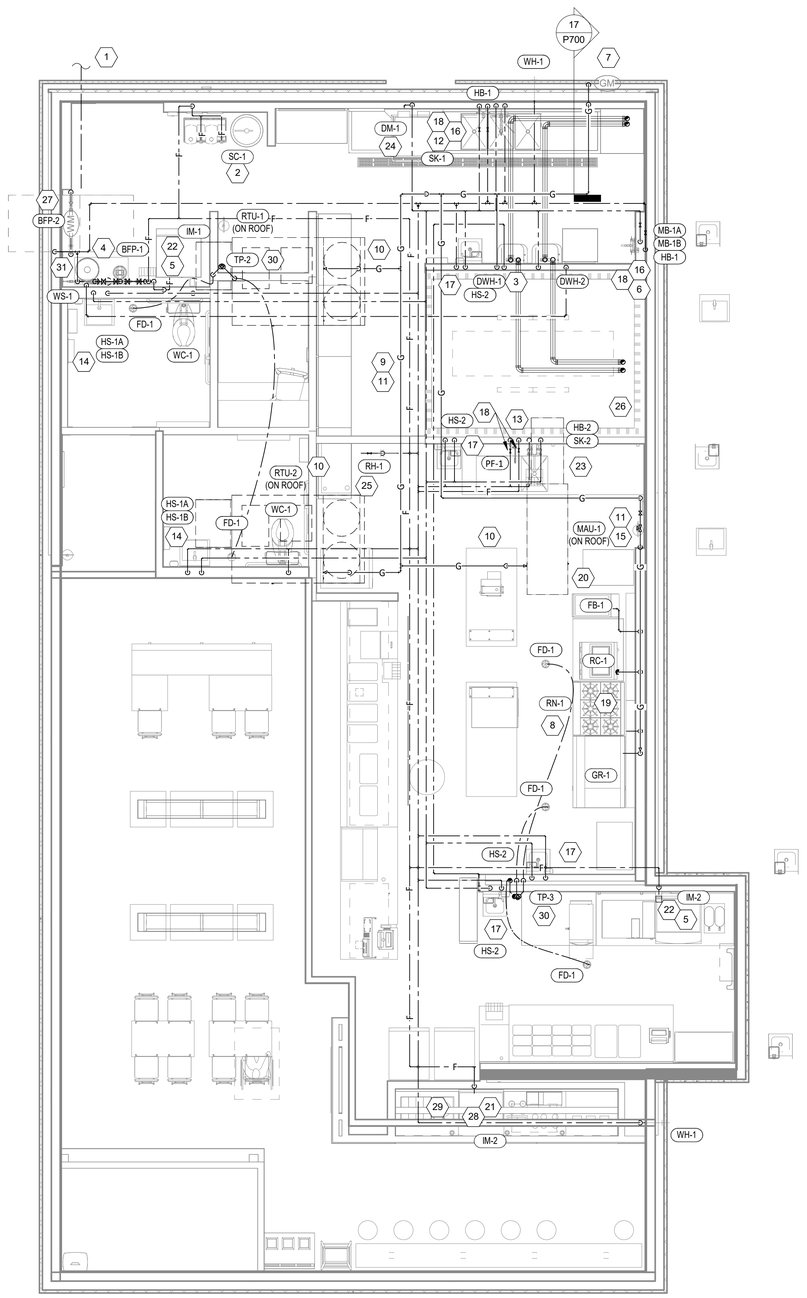
TAG	DESCRIPTION	CONNECTION SIZE CW	CONNECTION SIZE HW	ROUGH-IN TYPE	WSFU CW	WSFU HW	WSFU TOTAL	COUNT	TOTAL WSFU
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	0	0	0	1	0
BFP-2	RPZ BACKFLOW PREVENTER	1 1/2"		DIRECT	0	0	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	0"	3/4"	ANGLE 3/4"	0	3	3	1	3
ET-1	EXPANSION TANK	3/4"		DIRECT	0		0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"	MIP	2.25	2.25	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"		MIP	1.5		1.5	1	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	4	8
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	2	2
MB-1B	MOP SINK FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	3
PF-1	SPEED FILL FAUCET	3/8"		MIP	1.5		1.5	1	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	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"	ANGLE 1/2"	3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	4
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	1/2"		DIRECT	0		0	2	0
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	1/2"		DIRECT	0		0	1	0
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	2		2	2	4
WH-1	FREEZE PROOF WALL HYDRANT	3/4"		DIRECT	1		1	2	2
WS-1	WATER SOFTENER	1"		DIRECT	0		0	1	0
GRAND TOTAL									46



3/P100 **GAS DISTRIBUTION DIAGRAM**
NOT TO SCALE



2/P100 **PLUMBING SUPPLY DIAGRAM**
NOT TO SCALE



1/P100 **PLUMBING SUPPLY PLAN**
1/4" = 1'-0"

NO	REVISION	DATE	CHKD
5			
4			
3			
2	IFC SET	11/07/24	
1	ADDENDUM 1	07/29/24	
0	PERMIT SET	02/20/24	

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SHEET TITLE:

P100

PLUMBING PLAN WATER & GAS

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 PROVIDE GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION AND FOR CONTINUATION OF 4" GREASE WASTE PIPE TO GI-1.

8 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER.

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 PROVIDE 2" VENT TO GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION.

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.

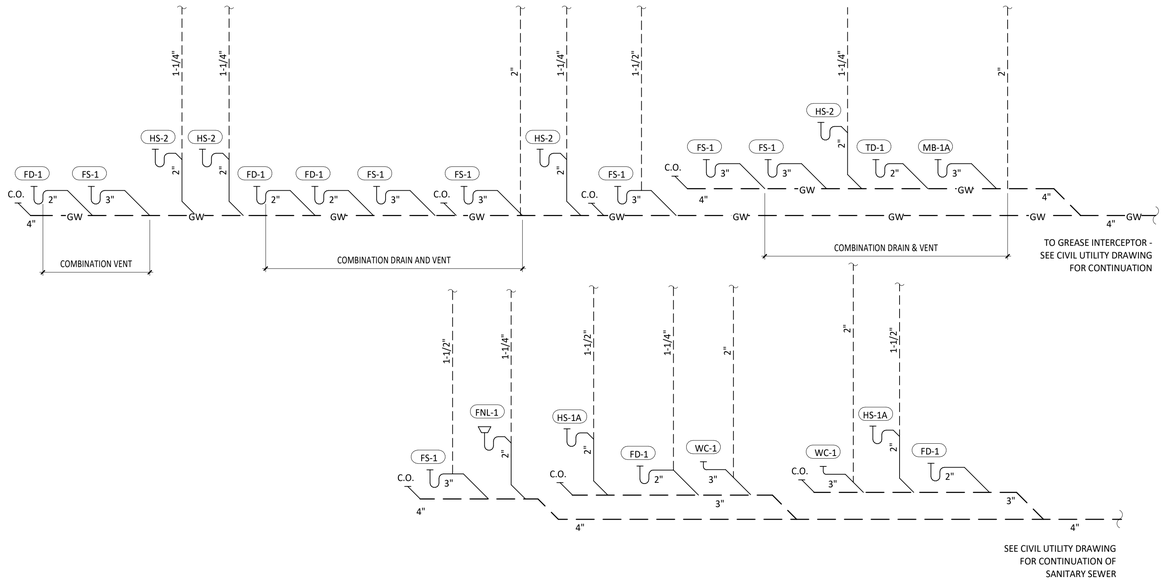
21 PROVIDE 3" STORM DRAIN CONDUCTOR FROM PRIMARY ROOF DRAIN RD-1 DOWN IN WALL TO 4". STORM DRAIN BELOW GRADE. INTERIOR HORIZONTAL STORM DRAIN CONDUCTORS SHALL BE SLOPED A MINIMUM OF 1/2" PER FOOT.

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.

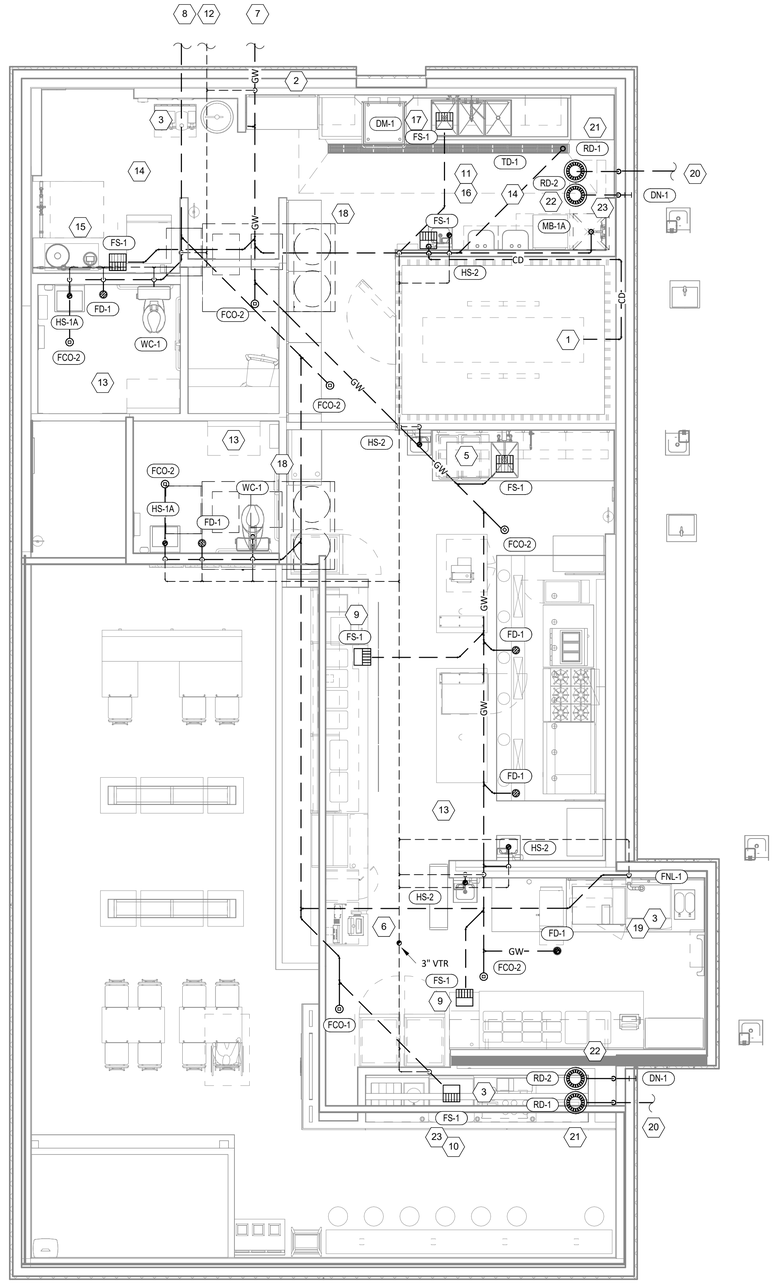
23 PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.

PLUMBING FIXTURE WASTE CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	5/8"	7	1	7
FCO-1	FLOOR CLEANOUT (3")	3"	0	1	0
FCO-2	FLOOR CLEANOUT (4")	4"	0	6	0
FD-1	FLOOR DRAIN	2"	2	5	10
FNL-1	FUNNEL DRAIN	2"	2	1	2
FS-1	FLOOR SINK	3"	5	7	35
GI-1	GREASE INTERCEPTOR	4"	0	1	0
HS-1A	RESTROOM HAND SINK	2"	1	2	2
HS-2	KITCHEN HAND SINK	2"	1	4	4
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"

	REVISION	DATE	CHKD
5			
4			
3		11/07/24	
2	IFC SET	07/29/24	
1	ADDENDUM 1	02/20/24	
0	PERMIT SET		

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EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:

P110

PLUMBING PLAN WASTE & VENT

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 (PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1	0"	3/4"	5/8"	0	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	
FB-1	GAS FRYER	KES	GC	SEE ARCH	--		1							
FCO-1	FLOOR CLEANOUT (3")	GC	GC	SIOUX CHIEF	852-3PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	1			3"				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)	6			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
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	7			3"				5
GI-1	GREASE INTERCEPTOR	GC	GC	CUSTOM	--	1,500 GALLON PRECAST GREASE INTERCEPTOR	1			4"				0
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--		1							
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	KOHLER	K-2084	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	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	4	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	1	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE	2	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	
RC-1	RICE COOKER	KES	GC	SEE ARCH	--		1							
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	
RN-1	6 BURNER RANGE	KES	GC	SEE ARCH	--		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-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	2	1/2"			0		0	
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.	1	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	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	
WS-1	WATER SOFTENER	KES	GC	CUNO	CFSM1254E	POINT OF ENTRY HIGH CAPACITY WATER TREATMENT SYSTEM. PROVIDE STARTUP PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.	1	1"			0		0	

WATER HEATER SCHEDULE

TAG	DESCRIPTION	NATURAL GAS		ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		INPUT	CONNECTION SIZE	FLA	V/P/H			MANUFACTURER	MODEL	
DWH-1	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"	2 A	120/1/60	GC	GC	NAVIEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).
DWH-2	WATER HEATER (GAS TANKLESS)	199,000 Btu/h	3/4"	2 A	120/1/60	GC	GC	NAVIEN	NPE-240A2	RATED FLOW RATE: 5.6 GPM @ 67°F RISE THERMAL EFFICIENCY: 96% PROVIDE WITH LEAD FREE "PLUMB EASY VALVE SET". GC SHALL PURCHASE WATER HEATER DIRECTLY THROUGH A NAVIEN AUTHORIZED DISTRIBUTOR (1-800-519-8794 OR WWW.NAVIEN.COM TO LOCATE AUTHORIZED DISTRIBUTOR).

	REVISION	DATE	CHKD
5			
4			
3			
2	IFC SET	11/07/24	
1	ADDENDUM 1	07/29/24	
0	PERMIT SET	02/20/24	

PROJ.: 230435
DATE: 01/04/2024
CHKD: 01/04/2024

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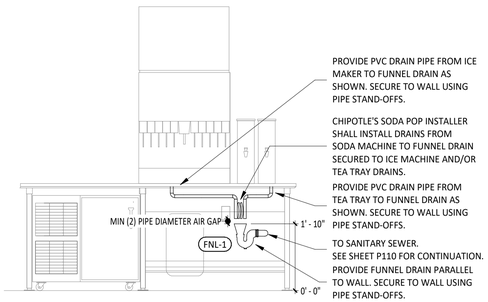
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EXTERIOR SHELL BUILDING ONLY)

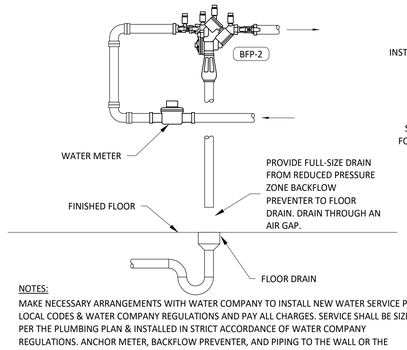
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P600

PLUMBING SCHEDULES

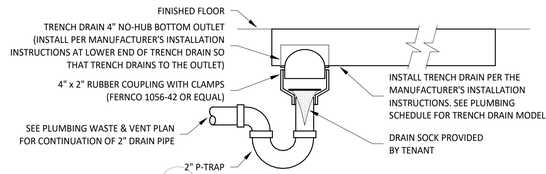


18 P700 PUW FUNNEL DRAIN DETAIL
NOT TO SCALE

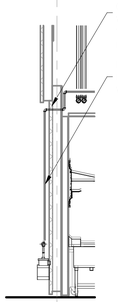


NOTES:
MAKE NECESSARY ARRANGEMENTS WITH WATER COMPANY TO INSTALL NEW WATER SERVICE PER LOCAL CODES & WATER COMPANY REGULATIONS AND PAY ALL CHARGES. SERVICE SHALL BE SIZED PER THE PLUMBING PLAN & INSTALLED IN STRICT ACCORDANCE OF WATER COMPANY REGULATIONS. ANCHOR METER, BACKFLOW PREVENTER, AND PIPING TO THE WALL OR THE FLOOR. CERTIFY THE BACKFLOW PREVENTER PER THE WATER COMPANY'S REQUIREMENTS.

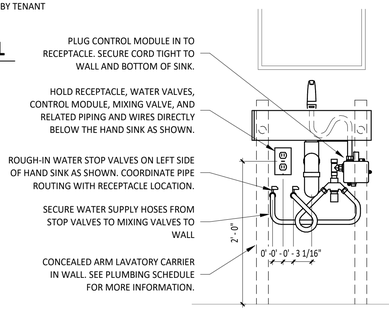
16 P700 WATER SERVICE ENTRY DETAIL
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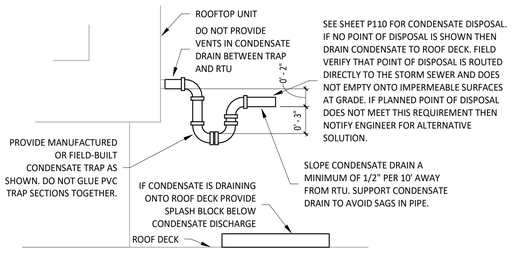
15 P700 TRENCH DRAIN DETAIL
NOT TO SCALE



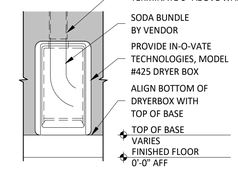
17 P700 GAS METER SECTION
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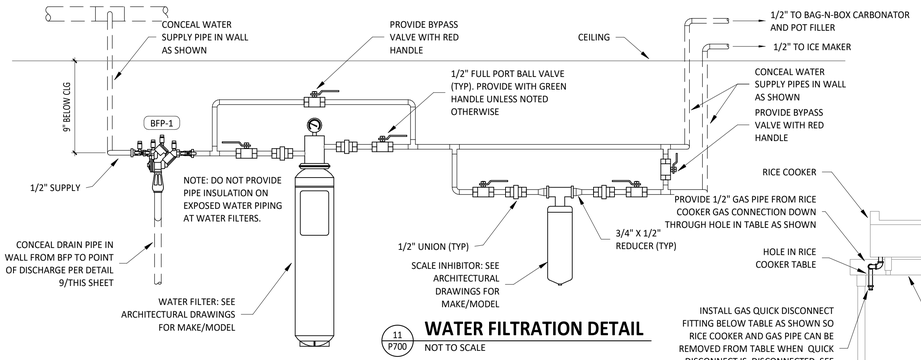
14 P700 RESTROOM HAND SINK DETAIL
NOT TO SCALE



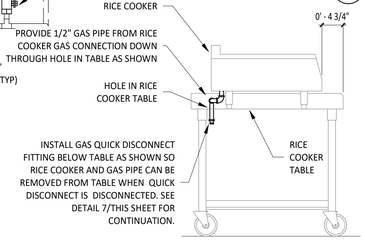
13 P700 RTU CONDENSATE TRAP DETAIL
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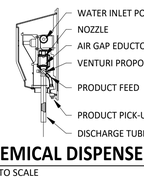


12 P700 SODA TERMINATION DETAIL
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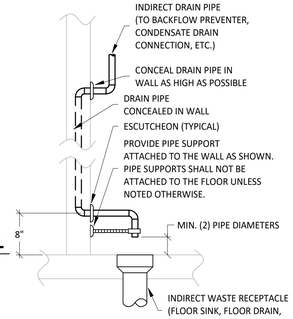


11 P700 WATER FILTRATION DETAIL
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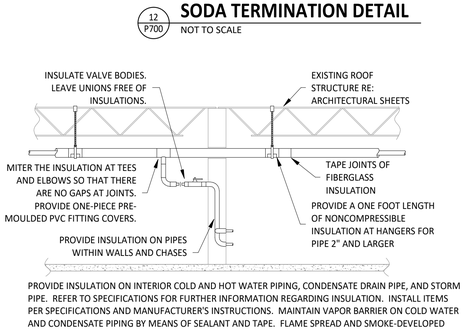




10 P700 CHEMICAL DISPENSER DETAIL
NOT TO SCALE

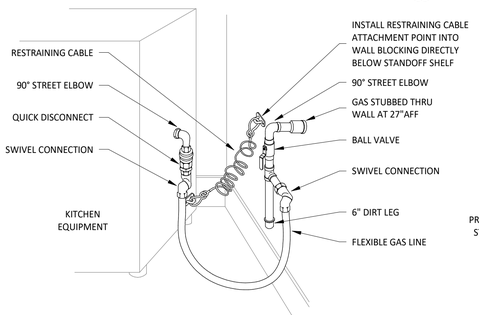


9 P700 INDIRECT WASTE PIPING DETAIL
NOT TO SCALE



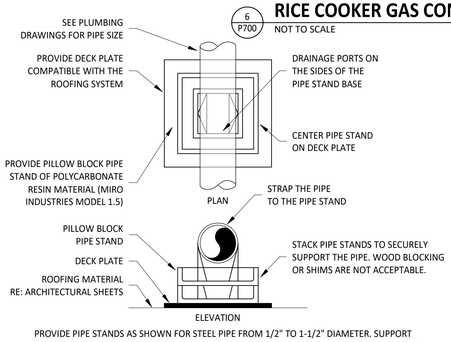
PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. UNLESS NOTED OTHERWISE 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.

8 P700 PIPE INSULATION DETAIL
NOT TO SCALE



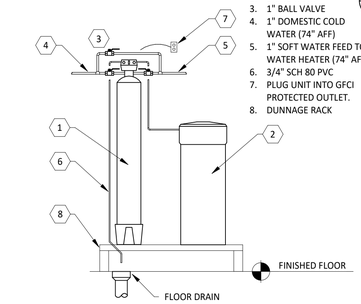
ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

7 P700 KITCHEN GAS EQUIPMENT DETAIL
NOT TO SCALE

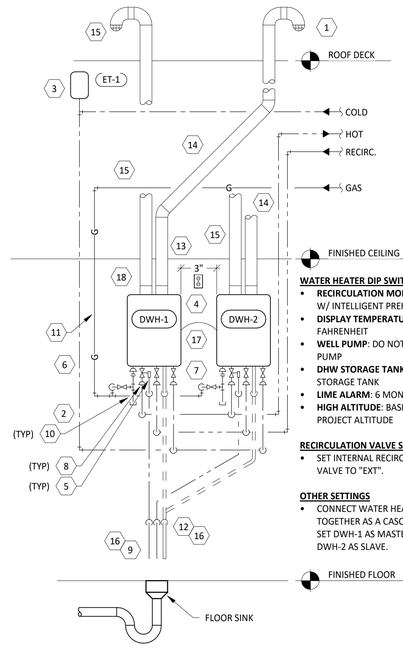


PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"–6; 3/4"-1"–8'; 1 1/4" AND LARGER–10'; PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION.

6 P700 RICE COOKER GAS CONNECTION DETAIL
NOT TO SCALE



19 P700 WATER SOFTENER DETAIL
NOT TO SCALE



WATER HEATER DIP SWITCH SETTINGS
- **RECIRCULATION MODE**: INTERNAL W/ INTELLIGENT PREHEATING
- **DISPLAY TEMPERATURE** UNIT: FAHRENHEIT
- **WELL PUMP**: DO NOT USE WELL PUMP
- **DHW STORAGE TANK**: DO NOT USE STORAGE TANK
- **LIME ALARM**: 6 MONTH ALERT
- **HIGH ALTITUDE**: BASED ON PROJECT ALTITUDE

RECIRCULATION VALVE SETTING
- SET INTERNAL RECIRCULATION VALVE TO "EXT".

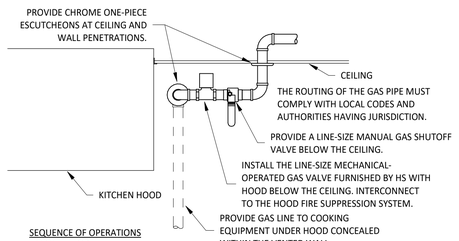
OTHER SETTINGS
- CONNECT WATER HEATERS TOGETHER AS A CASCADE SYSTEM. SET DWH-1 AS MASTER AND DWH-2 AS SLAVE.

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.

1 P700 WATER HEATER DETAIL
NOT TO SCALE

WATER HEATER DETAIL NOTES
1. PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ROUGH-IN COLD, HOT, AND RECIRC PIPES AT 64" AND GAS PIPE AT 61" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING. FASTEN CORD TIGHT TO THE WALL.
5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE CONCEALED WATER PIPING. DO NOT PROVIDE INSULATION ON EXPOSED WATER PIPING AT WATER HEATER.
7. INTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
8. IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTIONS SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" PVC PIPE FROM THE FLUE CONDENSATE CONNECTION TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER BETWEEN 9" & 12" OF THE FINISHED CEILING.
14. PROVIDE A 2"ø PVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE. SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE WATER HEATER.
15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 9/THIS SHEET.
17. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
18. IF WATER HEATERS ARE INSTALLED WITH A COMMON VENT SYSTEM THEN PROVIDE THE NAVIEN COMMON VENT COLLAR KIT WITH BACK-DRAFT DAMPER PER THE MANUFACTURER'S INSTALLATION MANUAL.

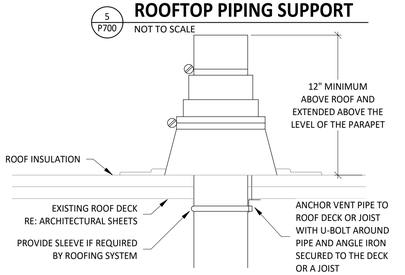
WATER HEATER GENERAL NOTES
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B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F.



SEQUENCE OF OPERATIONS
NORMAL MODE:
- DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.

EMERGENCY MODE:
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

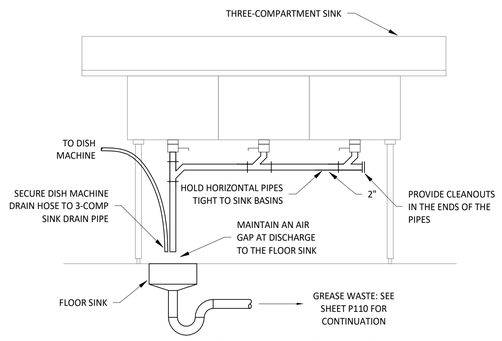
4 P700 KITCHEN GAS SHUTOFF DETAIL
NOT TO SCALE



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.

3 P700 VENT THROUGH ROOF
NOT TO SCALE

5 P700 ROOFTOP PIPING SUPPORT
NOT TO SCALE



2 P700 WARE-WASHING SINK DETAIL
NOT TO SCALE

	REVISION	DATE	CHKD
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1	ADDENDUM 1	07/29/24	
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RIDGEBACK CENTRAL AVENUE, LLC.
1707 CENTRAL AVE,
COLONIE, NY 12205
EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:
P700
PLUMBING DETAILS

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

BUILDING CODE DATA

	CODE	
GENERAL	NEW YORK STATE BUILDING CODE	2020
HVAC/MECHANICAL	NEW YORK STATE MECHANICAL CODE	2020
PLUMBING	NEW YORK STATE PLUMBING CODE	2020
ELECTRICAL	NATIONAL ELECTRICAL CODE	2017
FIRE PROTECTION	NEW YORK STATE FIRE CODE	2020
	NFPA STANDARDS	CURRENT
FUEL	NEW YORK FUEL GAS CODE	2020
ENERGY	NEW YORK ENERGY CONSERVATION CODE	2020
LOCAL AMENDMENTS	VILLAGE OF COLONIE, NY AMENDMENTS	CURRENT

NOTES:
A. ALL WORK PERFORMED SHALL COMPLY WITH THE REQUIREMENTS OF THE LISTED CODES, LOCAL CODE AMENDMENTS, AND REFERENCED STANDARDS AS ENFORCED BY THE AUTHORITY HAVING JURISDICTION (AHJ).
B. ALL WORK SUBJECT TO INSPECTION BY THE AHJ AT THE PROJECT SITE FOR COMPLIANCE

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.
2 K INSTALL LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES FURNISHED BY TSV ON WALL IMMEDIATELY ABOVE RECEPTACLES.
L IF THERE ARE RATED ASSEMBLIES WITHIN CHIPOTLE'S SPACE COORDINATE ANY REQUIRED CONDUIT RUNS WITH SECURITY VENDOR.

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
TPS	TENANT'S PANELBOARD 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

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A RESTAURANT TENANT FINISH OF AN EXISTING BUILDING. THE NEW ELECTRICAL WORK INCLUDES, ELECTRICAL PANELBOARD(S), ROOF TOP HVAC EQUIPMENTS, POWER, GENERAL LIGHTING, GENERAL POWER FOR DINING AREA AND SPECIALTY POWER FOR THE KITCHEN AND PREPARATION AREAS. THERE IS ALSO A NEW HOOD POWER AND ANSUL SYSTEM. EXISTING ELECTRICAL SERVICE AND EXTERIOR ELECTRICAL WORK HAS BEEN FURNISHED BY LANDLORD.

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EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:
E010
ELECTRICAL SPECIFICATIONS

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			SPARE					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	36/38/40	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
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8FCR MVOLT HLK FM DTC CPTLE 1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH	1	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	3	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	BASIS FOR DESIGN LAMP	REMARKS
(E)E2	3	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
(E)E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD RED LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	CLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
(E)G4	2	PATIO POLE LIGHT	GROUND	120 V	10 W	TLS	GC	RAB LIGHTING	ALED10Y W/ PS4-11-10D2 POLE	INTEGRAL LED	SEE PLAN FOR LAMP HEAD ORIENTATION. REFER TO ARCHITECTURAL SHEETS FOR FINISH AND INSTALLATION DETAIL
(E)X9	2	EXTERIOR LED CHANNEL LIGHT	SURFACE	120 V	45 W	TLS	GC	PARADIGM LED	AMC-2410-S W/ OPAL LENS AND END CAPS	FLEXSR-45-30-67-24	FURNISHED W/ REMOTE-MOUNTED NEMA 3R LED DRIVER. SEE PLAN FOR LENGTHS.
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	6	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	6	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E4	5	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD RED LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	CLED-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	8	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	2	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

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, R5, R6) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.

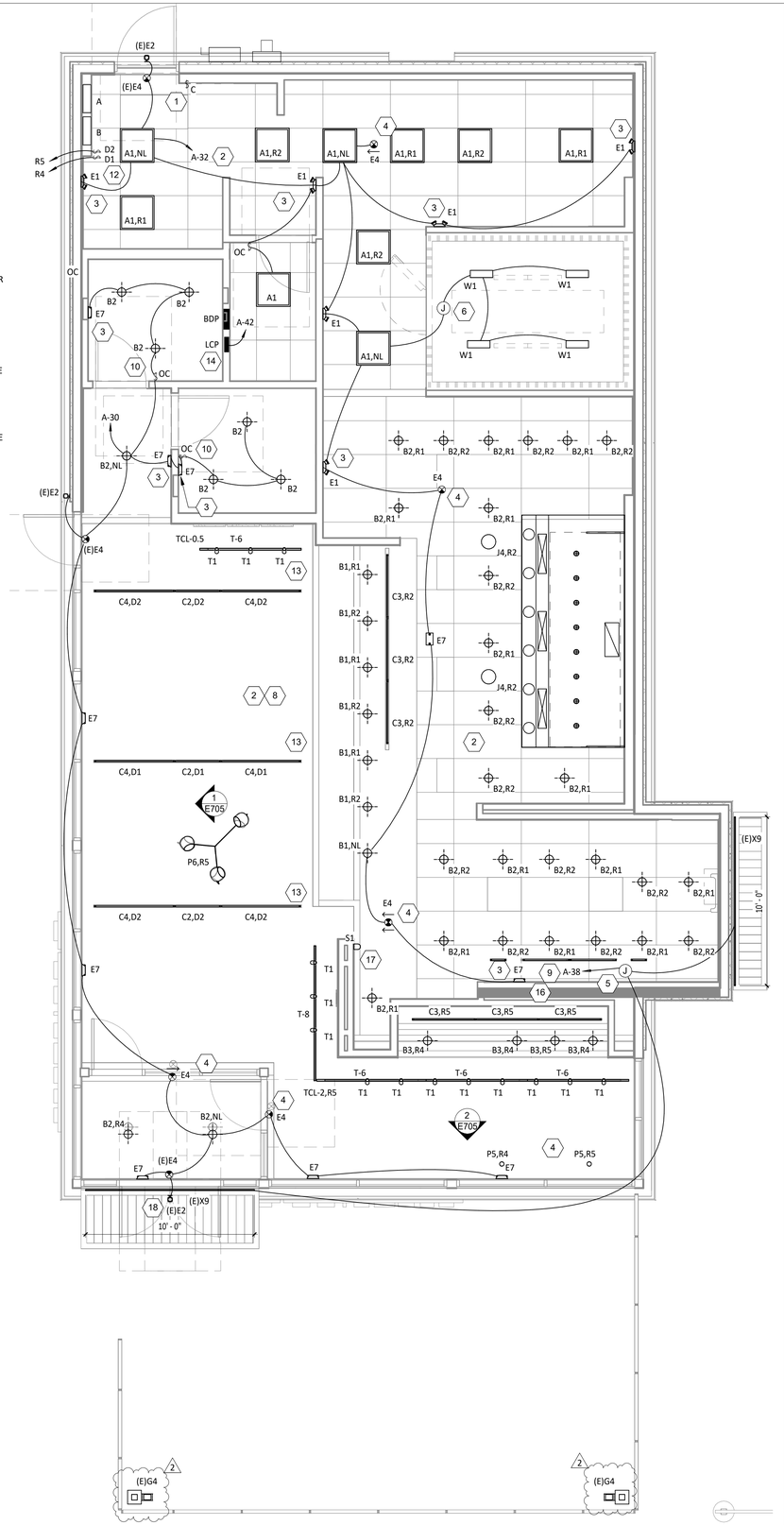
14 INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.

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"

	DATE	CHKD
5		
4		
3	11/07/24	
2	IFC SET	07/29/24
1	ADDENDUM 1	02/20/24
0	PERMIT SET	

REVISION

PROJ.: 2304135
DATE: 01/04/2024
CHKD: 01/04/2024

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EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:

E100

ELECTRICAL LIGHTING PLAN

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.

2 ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.

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.

1

5 PROVIDE A SINGLE GANG VERTICAL JUNCTION BOX 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" CONDUITS WITH PULL STRINGS FROM THE BASE BUILDING'S TELEPHONE AND DATA SERVICE ENTRANCE LOCATIONS 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 PROVIDE A NEMA 3R FUSED DISCONNECT SWITCH SIZED PER MECHANICAL AND PLUMBING SCHEDULE IN SHEET E600.

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.

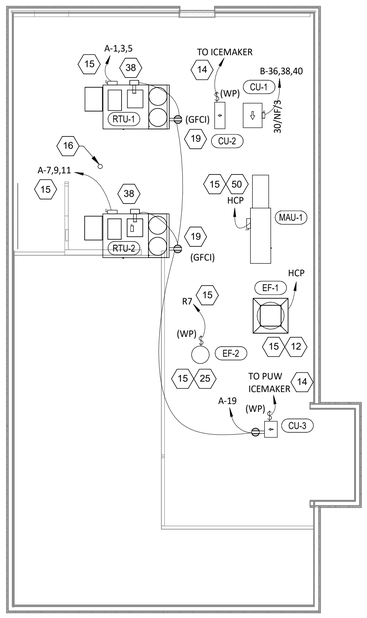
49 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.

50 PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. AND (4) #12, #12 N., #12 G. IN 1" C. FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

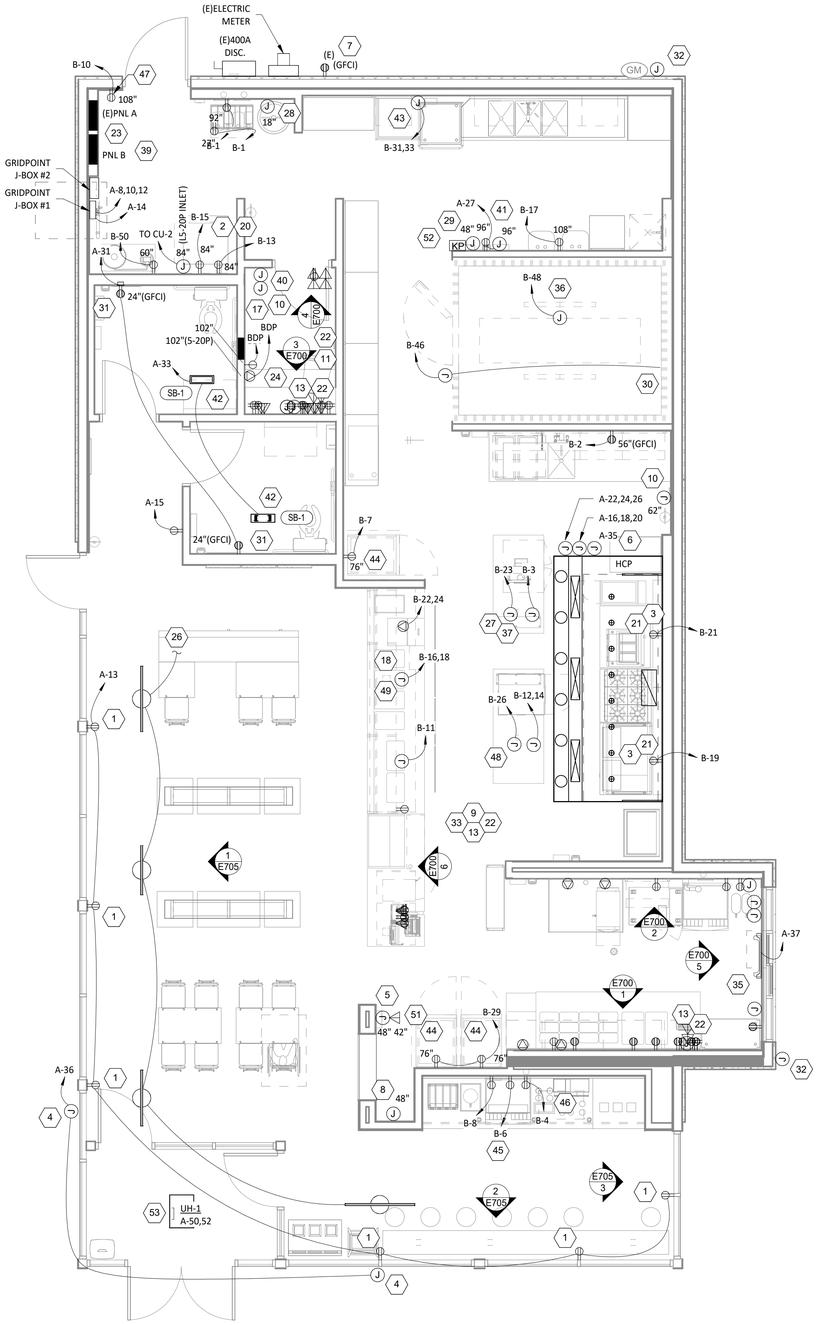
51 PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.

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

53 EQUIPMENT LOCATED ABOVE CEILING. CONFIRM WITH VENDOR THE ACTUAL POWER REQUIREMENTS AND IF SEPARATE DISCONNECT IS REQUIRED.



2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"



1 E110 **POWER FLOOR PLAN**
1/4" = 1'-0"

	REVISION	DATE	CHKD
5			
4			
3			
2	IFC SET	11/07/24	
1	ADDENDUM 1	07/29/24	
0	PERMIT SET	02/20/24	

PROJ. 2330435
DATE: 01/04/2024
CHKD: 01/04/2024

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RIDGEBACK CENTRAL AVENUE, LLC.

1707 CENTRAL AVE,
COLONIE, NY 12205

EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:

E110

ELECTRICAL POWER PLAN

GENERAL NOTES:

1. EC TO COORDINATE ANY EXTERIOR WORK BY LANDLORD UNDER A SEPARATE PERMIT.

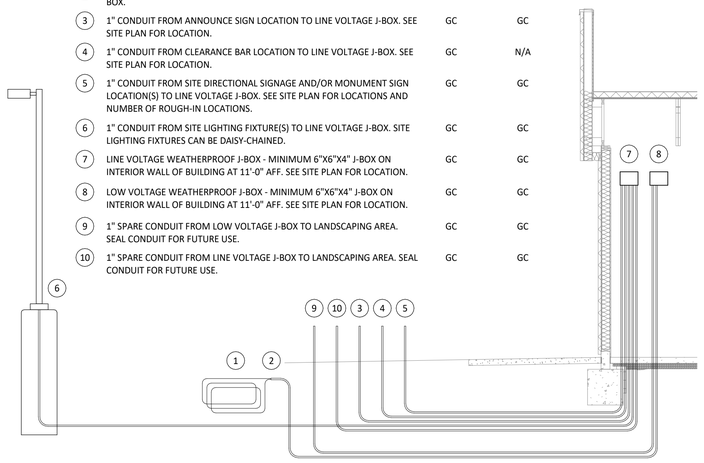
ELECTRICAL POWER PLAN NOTES

1 NOT USED.
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 NOT USED.
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.
2 10 EXISTING PATIO POLE LIGHT FIXTURE.

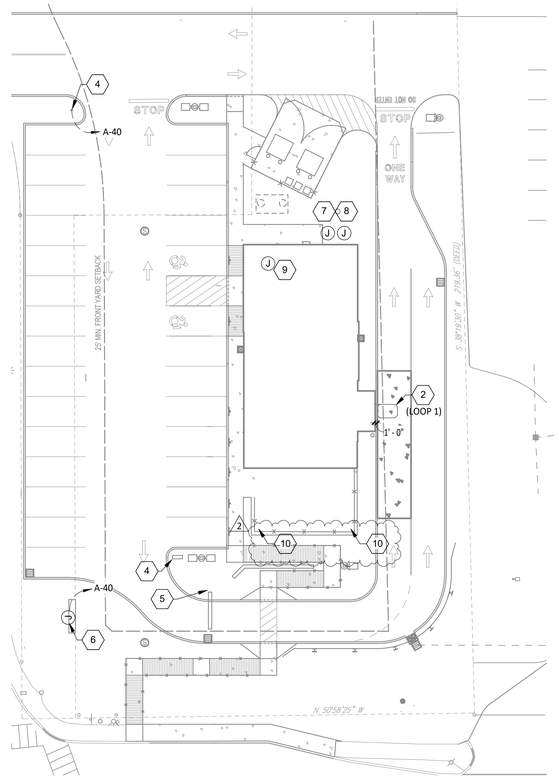
TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	VEHICLE DETECTOR LOOP - 6'x4' WITH 4 TURNS (EMX PR-46-XX). VERIFY LENGTH OF LEAD-IN WIRE PRIOR TO ORDERING TO ALLOW WIRE TO REACH VEHICLE DETECTOR WITHOUT SPLICING. SEE SITE PLAN FOR LOCATION(S).	GC	GC
2	1" CONDUIT 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 WEATHERPROOF 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 WEATHERPROOF 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



1/E115 **POWER SITE PLAN**
3/64" = 1'-0"

NO	REVISION	DATE	CHKD
5			
4			
3			
2	IFC SET	11/07/24	
1	ADDENDUM 1	07/29/24	
0	PERMIT SET	02/20/24	

PROJ.: 230435
DATE: 01/04/2024
CHKD: 01/04/2024

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EXTERIOR SHELL BUILDING ONLY)

SHEET TITLE:

E115

ELECTRICAL SITE POWER PLAN

MECHANICAL AND PLUMBING EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	AREA/ EQUIPMENT SERVED	QTY	AMPS	VOLTS	PHASE	WATTS OR VA	MOP (A)	DISC./FUSE TYPE	FEEDER	NOTES
RTU-1	ROOF TOP UNIT	KITCHEN	1	36.3	208	3	-	50	FRN-R-50	#8, #10 GND	
RTU-2	ROOF TOP UNIT	DINING ROOM	1	33.2	208	3	-	50	FRN-R-50	#8, #10 GND	
EF-1	EXHAUST FAN	KITCHEN	1	8.3	208	3	-	20	FRN-R-20	#12, #12 GND	
EF-2	EXHAUST FAN	RESTROOM	1	2.9	120	1	-	20	TO SWITCH	#12, #12 GND	
CU-1	CONDENSING UNIT	WALK-IN COOLER	1	9.0	208	3	-	15	FRN-R-15	#12, #12 GND	
CU-2	CONDENSING UNIT	ICE MAKER	1	9.0	120	1	-	15	FRN-R-15	#12, #12 GND	2
CU-3	CONDENSING UNIT	ICE MAKER	1	9.0	120	1	-	15	FRN-R-15	#12, #12 GND	2
MAU-1	MAKE-UP AIR UNIT	HD-1	1	3.1	208	3	-	15	FRN-R-15	#12, #12 GND	
HD-1	KITCHEN HOOD CONTROL PANEL	KITCHEN	1	12.0	120	1	-	20	J-BOX	#12, #12 GND	
HS-1B	HAND SINK FAUCET	RESTROOM	2	-	120	1	20	20	NEMA 5-20R	#12, #12 GND	
DWH-1	WATER HEATER	BUILDING	1	2.0	120	1	-	20	TO SWITCH	#12, #12 GND	
DWH-2	WATER HEATER	BUILDING	1	2.0	120	1	-	20	TO SWITCH	#12, #12 GND	
KITCHEN (POWER ONLY) EQUIPMENT SCHEDULE											
E-1A.1	FRONT SERVE LINE (RIGHT) - POS SYSTEM	KITCHEN	1	1.5	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-1A.2	FRONT SERVE LINE (RIGHT) - HOT FOOD WELLS	KITCHEN	1	20.0	208	1	-	30	NEMA 14-30R	#10, #10 GND	1,2
E-1A.3	FRONT SERVE LINE (RIGHT) - COLD TOP	KITCHEN	1	3.7	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-2A	TORTILLA WARMER	KITCHEN	2	-	208	1	1800	20	NEMA 6-30R	#12, #12 GND	1
E-7B.1	UPRIGHT BEVERAGE COOLER	KITCHEN	1	5.0	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-7B.2	UPRIGHT BEVERAGE COOLER	KITCHEN	2	5.0	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-11	CARVING STATION	KITCHEN	1	9.6	208	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-12	UNDERCOUNTER REFRIGERATOR	KITCHEN	1	2.6	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-13	GRILL - NATURAL GAS	KITCHEN	1	-	120	1	200	20	NEMA 5-20R	#12, #12 GND	1
E-16	FRYER - GAS	KITCHEN	1	-	120	1	200	20	NEMA 5-20R	#12, #12 GND	1
E-18B	RICE COOKER - GAS	KITCHEN	1	0.5	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-26	HOT HOLDING CABINET	KITCHEN	1	-	120	1	1000	20	NEMA 5-20R	#12, #12 GND	
E-32.5	ICE MAKER - SANITIZER	KITCHEN	3	-	120	1	50	20	NEMA 5-20R	#12, #12 GND	1
E-32A	ICE MAKER FOR B.O.H. ICE BIN (SHORTER)	KITCHEN	1	10.5	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-32C	ICE MAKER (SODA MACHINE) AIR COOLED	KITCHEN	1	12.0	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-32D	ICE MAKER (SODA MACHINE) REMOTE COOLED	KITCHEN	1	12.5	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-33B	WALK-IN COOLER - EVAP.	KITCHEN	1	1.7	120	1	-	20	TO SWITCH	#12, #12 GND	1
E-39B.1	DML 2.0 - POS SYSTEM	KITCHEN	1	1.5	120	1	-	15	NEMA 5-15R	#12, #12 GND	1
E-39B.2	DML 2.0 - HOT FOOD WELLS	KITCHEN	1	20.0	208	1	-	30	NEMA 14-30R	#10, #10 GND	1
E-39B.3	DML 2.0 - FOOD WARMER	KITCHEN	1	11.7	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-39B.4	DML 2.0 - COLD TOP	KITCHEN	1	3.7	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-43	BEVERAGE COOLER BACKBAR 36IN	KITCHEN	1	3.0	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-50	FOOD PROCESSOR	KITCHEN	1	15.0	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-61B	DISH MACHINE (W/ PUMP)	KITCHEN	1	25.6	208	1	-	35	JJN-35	#8, #10 GND	
E-67	REFRIGERATED COUNTER CASE, SELF-SERVE	KITCHEN	1	8.8	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
E-69B	M4.0 - SIMPLICITY BUBBLER MINI-QUAD	KITCHEN	1	8.5	120	1	-	20	NEMA 5-20R	#12, #12 GND	
E-71	QUESADILLA PRESS	KITCHEN	2	30.0	208	1	-	30	NEMA 6-30R	#10, #10 GND	
MISC (POWER ONLY) EQUIPMENT SCHEDULE											
4C	SMART SAFE	BUILDING	1	-	120	1	200	20	NEMA 5-20R	#12, #12 GND	1
5B	SODA DISPENSER - W/ AIR-COOLED ICE MAKER	BUILDING	1	9.3	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
5C	SODA DISPENSER - W/ REMOTE AIR-COOLED I.M.	BUILDING	1	9.2	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
6	CARBONATOR FOR SODA SYSTEM	KITCHEN	1	10.8	120	1	-	20	NEMA 5-20R	#12, #12 GND	1
24	LAUNCHPORT WALL STATION	BUILDING	1	-	120	1	700	20	NEMA 5-20R	#12, #12 GND	1
32	CO2 ALARM	BUILDING	1	-	120	1	1	20	NEMA 5-20R	#12, #12 GND	

GENERAL NOTES

A. REFER TO VENDOR SHOP DRAWINGS FOR MORE DETAILS, CONFIRM FINAL POWER REQUIREMENTS AND LAYOUT PRIOR TO ANY NEW WORK.
B. REFER TO SHEET A702 FOR EQUIPMENT MANUFACTURER, MODEL, LOCATION AND APPROXIMATE MOUNTING HEIGHTS.
C. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN AREA SHALL BE GFCI PROTECTED.
D. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE RATED NEMA 3R.

NOTES

1. CONFIRM FINAL POWER REQUIREMENTS WITH VENDOR PRIOR TO ANY NEW WORK.
2. COORDINATE WITH VENDOR FOR WIRING DIAGRAM/DRAWINGS AND FINAL DETAILS PRIOR TO ANY RELATED WORK.
3. PROVIDED WITH INTEGRAL DISCONNECTING MEANS.

PANEL BDP

Location : OFFICE
Supply From : PANEL A
Mounting : RECESSED — NEMA : 1
Voltage Line-Line : N/A — Phase : 1
Voltage Line-Ground : 120 — Wires : 2
A.I.C Rating (A) : 10,000 — Main (A): 20
Main Type : MLO — MCB (A): -

Notes	LOAD DESCRIPTION	SIZE (A)	POLES	CKT No	VA PER PHASE A
	1A.1-POS	15	1	1	180
	39B.1-DML - POS	15	1	2	180
	24-DML - ORDERING SYS.	15	1	3	700
	OFFICE - SECURITY SYS.	15	1	4	180
	OFFICE - COMPUTER	15	1	5	360
	OFFICE - DVR/ISP	15	1	6	540
	Connected load per phase				2,140

LOAD TYPE	FACTOR	CONNECTED (KVA) A
LIGHTING LOAD	1.25	0.0
REC. LOAD (10 KVA OR LESS)	1.00	2.1
REC. LOAD OVER 10 KVA	0.50	0.0
LARGEST MOTOR	1.25	0.0
OTHER MOTORS	1.00	0.0
MISCELLANEOUS	1.00	0.0
KITCHEN EQUIPMENT	1.00	0.0
	TOTAL KVA	2.1

TOTAL KVA PER PHASE (KVA) 2.1 — MINIMUM AMPACITY 18 Amps
TOTAL AMPS PER PHASE (A) 18

ELECTRICAL PANEL B

Location : REAR ENTRY — NEMA: 1
Supply From : PANEL A — Phase: 3
Mounting : SURFACE — Wires: 4
Voltage Line-Line : 208
Voltage Line-Ground : 120
A.I.C Rating (A) : 22,000 — Main Rating (A): 400
Main Type : MLO — MCB Rating (A): -

NOTES:
1. REQUIRES GFCI PROTECTION.
2. CONFIRM FINAL POWER REQUIREMENTS.
3. PROVIDE A LOCKABLE BREAKER.
4.
5.
6.

Notes	LOAD DESCRIPTION	SIZE (A)	POLES	CKT No	VOLT-AMPS PER PHASE A	VOLT-AMPS PER PHASE B	VOLT-AMPS PER PHASE C	CKT. No	SIZE (A)	POLES	LOAD DESCRIPTION	Notes
1	6-CARBON /32-CO2 AL.	20	1	1	1296 1356			2	20	1	RCPT - PREP. TABLE	1
1	50-FOOD PROCESSOR	20	1	3		1800 1116		4	20	1	5B-SODA DISPENSER	1
	SPARE	20	1	5			0 1440	6	20	1	32C-ICE MAKER (UTEN.)	1
1	7B.2-BEV. COOLER	20	1	7	600 1020			8	20	1	69B-BUBBLER	1
1	67-REF. COUNTER CASE	20	1	9		1056 180		10	20	1	UV LIGHT TRAP	1
1	1A.3-COLD TOP	20	1	11			444 1000	12	20	2	11-CARVING STATION	1
1	32.5-ICE SANITIZER	20	1	13	150 1000			14	--	--	--	1
1	32A-ICE MAKER	20	1	15		1260 2080		16	30	2	1A.2-HOT FOOD WELLS	1
2	GAS WATER HEATER	20	1	17			480 2080	18	--	--	--	1
1,2,4	13-GRILL-NATURAL GAS	20	1	19	200 0			20	20	1	SPARE	
1,2,4	16-FRYER/18B-RICE	20	1	21		260 900		22	20	2	2A-TORTILLA WARMER	1
1	26-HOLDING CABINET	15	1	23			1000 900	24	--	--	--	1
1	2A-TORTILLA WARMER	20	2	25	900 312			26	20	1	12-U/C REFRIGERATOR	1
1	--	--	--	27		900 2080		28	30	2	39B.2-HOT FOOD WELLS	1
1	7B.1/7B.2-BEV. COOLER	20	1	29			1200 2080	30	--	--	--	1
1,3	61B-DISH MACHINE	35	2	31	2662 1404			32	20	1	39B.3-FOODWARMER	1
1,3	--	--	--	33		2662 444		34	20	1	39B.4-COLD TOP	1
1	71-QUESADILLA MAKER	30	2	35			3120 1128	36	15	3	CU-1 (WALK-IN COND.)	
1	--	--	--	37	3120 1128			38	--	--	--	
1	43-BEV. COOLER 36IN.	20	1	39		360 1128		40	--	--	--	
1	71-QUESADILLA MAKER	30	2	41			3120 1500	42	20	1	32D-ICE MAKER (DRIVE)	1
1	--	--	--	43	3120 1104			44	20	1	5C-SODA DISPENSER	1
	SPARE	20	1	45		0 180		46	20	1	WIC - DOOR SECTION	
	SPARE	20	1	47			0 200	48	20	1	33B-WIC-EVAPORATOR	
	SPARE	20	1	49	0 180			50	20	1	WATER SOFTENER	
	SPARE	20	1	51		0 0		52	20	1	SPARE	
	SPARE	20	1	53			0 0	54	20	1	SPARE	
	Connected load per phase				19,553	16,406	19,692					

LOAD TYPE	FACTOR	CONNECTED (KVA) A	B	C	DEMAND (KVA) A	B	C	ADD'L DEMAND A	B	C	TOTAL DEMAND (KVA)
LIGHTING LOAD	1.25	0.0	0.0	0.0	0.0	0.0	0.0				0.0
REC. LOAD (10 KVA OR LESS)	1.00	0.3	0.2	0.0	0.3	0.2	0.0				0.5
REC. LOAD OVER 10 KVA	0.50	0.0	0.0	0.0	0.0	0.0	0.0				0.0
LARGEST MOTOR	1.25	0.0	0.0	0.0	0.0	0.0	0.0				0.0
OTHER MOTORS	1.00	0.0	0.0	0.2	0.0	0.0	0.2				0.2
MISCELLANEOUS	1.00	3.4	1.3	0.0	3.4	1.3	0.0				4.7
KITCHEN EQUIPMENT	0.65	15.8	14.9	19.5	10.3	9.7	12.7				32.6
	TOTAL KVA	19.6	16.4	19.7	14.0	11.2	12.9				38.1
	TOTAL KVA PER PHASE (KVA)	14.0	11.2	12.9							
	TOTAL AMPS PER PHASE (A)	117	93	107							

MINIMUM PANEL AMPACITY 117 Amps

FEEDER SCHEDULE

COPPER (CU) ALUMINUM (AL)	FEEDER ID	NOMINAL AMPACITY [AMPS AT 75C]	SETS	CONDUCTORS QUANTITY	CONDUCTORS SIZE [AWG]	GROUND WIRE SIZE [AWG] COPPER ONLY	MIN CONDUIT SIZE [IN] EMT	MIN CONDUIT SIZE [IN] SCHED 40 PVC	NOTES
CU	400/S	400	2	4	#3/0	-	2	2	1
CU	400/4	400	2	4	#3/0	#2	2	2	1
CU	12/2	20	1	2	#12	#12	1/2	1/2	

GENERAL NOTES

1. CONDUCTORS SHALL BE PROVIDED WITH 90C THHN, THWN, XHHW INSULATION INDICATED BY CODE. MAXIMUM AMPACITY SHALL BE BASED ON NEC 75C RATINGS.

NOTES

1. CONTRACTOR SHALL CALCULATE CONDUIT SIZE IF USING ALTERNATE CONDUCTORS.

GENERAL NOTES:

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. CONTRACTOR TO SUBMIT SERVICE ENTRANCE GEAR SHOP DRAWINGS TO SERVING UTILITY COMPANY FOR APPROVAL.
3. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW AL.
4. THE DESIGN PROFESSIONAL HAS PERFORMED ALL REQUIRED LOAD CALCULATIONS AND VERIFIES THAT ALL UPSTREAM PANELS AND EQUIPMENT ARE NOT OVERLOADED.
5. ACTUAL A.I.C. RATING TO BE VERIFIED PRIOR TO CONSTRUCTION WITH UTILITY.

EXISTING ELECTRICAL PANEL A

Location : REAR ENTRY — NEMA: 1
Supply From : 400A CT/DISC. — Phase: 3
Mounting : SURFACE — Wires: 4
Voltage Line-Line : 208
Voltage Line-Ground : 120
A.I.C Rating (A) : 22,000 — Main Rating (A): 400
Main Type : MLO — MCB Rating (A): -

NOTES:
1. CONTAINS NO LOAD.
2. REQUIRES GFCI PROTECTION.
3. NOT USED.
4. RELOCATE EXISTING CIRCUIT FROM C&S WORK.
5. CONFIRM WITH MANUFACTURER FOR POWER REQ., NOT SHOWN IN EQUIPMENT SCHEDULE.

Notes	LOAD DESCRIPTION	SIZE (A)	POLES	CKT No	VOLT-AMPS PER PHASE A	VOLT-AMPS PER PHASE B	VOLT-AMPS PER PHASE C	CKT. No	SIZE (A)	POLES	LOAD DESCRIPTION	Notes
	RTU-1	50	3	1	4356 0			2	60	3	TVSS	1
	--	--	--	3		4356 0		4	--	--	--	1
	--	--	--	5			4356 0	6	--	--	--	1
	RTU-2	50	3	7	3984 0			8	20	3	GRIDPOINT 3P METER	1
	--	--	--	9		3984 0		10	--	--	--	1
	--	--	--	11			3984 0	12	--	--	--	1
	RCPT - STOREFRONT	20	1	13	1200 180			14	20	1	GRIDPOINT XMFR	
	RCPT - DINING	20	1	15		180 996		16	20	3	EF-1	
	PANEL 'BDP'	20	1	17			2140 996	18	--	--	--	
	RCPTS - ROOFTOP	20	1	19	720 996			20	--	--	--	
	RCPTS - POS GENERAL	20	1	21		720 372		22	15	3	MAU-1	
	SECURITY/AUDIO	20	1	23			360 372	24	--	--	--	
	IRRIGATION CTRL	20	1	25	400 372			26	--	--	--	
2	RCPT - OFFICE	20	1	27		1080 348		28	20	1	EF-2	
	RCPT - DML	20	1	29			1260 700	30	20	1	LTG - DINING + EM	
2	RCPT - RESTROOMS	20	1	31	360 1200			32	20	1	LTG - KITCHEN + EM	
	BATHROOM SANITIZER	20	1	33		100 300		34	20	1	EXISTING EXT. LIGHTS	4
	HD-1 (CTRL AND LTS)	20	1	35			1440 500	36	20	1	SIGN LIGHTING	2
2	VEHICLE DETECTOR	20	1	37	360 1200			38	20	1	LIGHTING - EXTERIOR	2
4	EXISTING RECEPTACLE	20	1	39		180 500		40	20	1	SITE SIGNAGE	2
	SPARE	20	1	41			0 1263	42	20	1	LIGHTING CTRL PANEL	
	SPARE	20	1	43	0 500			44	20	1	PICK-UP WINDOW	
	SPARE	20	1	45		0 2100		46	25	2	PUW AIR CURTAIN	4,5
	SPARE	20	1	47			0 2100	48	--	--	--	4,5
	SPARE	20	1	49	0 1500			50	20	2	UH-1	
	SPARE	20	1	51		0 1500		52	--	--	--	
	SPARE	20	1	53			0 0	54	--	--	SPACE	
	FEED-THRU PANEL B	--	--		14022 0							
	--	--	--			11181 0						
	--	--	--				12870 0					
	Connected load per phase				31,350	27,897	32,341					

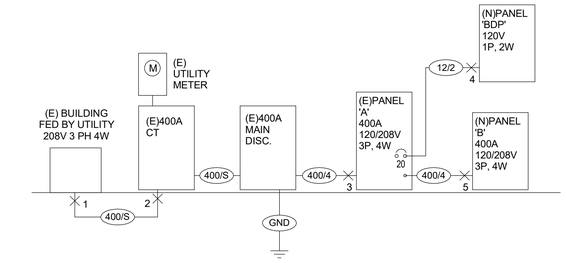
LOAD TYPE	FACTOR	CONNECTED (KVA) A	B	C	DEMAND (KVA) A	B	C	PANEL B + BDP A	B	C	TOTAL DEMAND (KVA)
LIGHTING LOAD	1.25	3.6	0.8	2.5	4.5	1.0	3.1	0.0	0.0	0.0	8.6
REC. LOAD (10 KVA OR LESS)	1.00	2.0	2.3	3.1	2.0	2.3	3.1	0.3	0.2	2.1	10.0
REC. LOAD OVER 10 KVA	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LARGEST MOTOR	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER MOTORS	1.00	9.7	10.1	9.7	9.7	10.1	9.7	0.0	0.0	0.2	29.7
MISCELLANEOUS	1.00	2.0	3.6	2.1	2.0	3.6	2.1	3.4	1.3	0.0	12.4
KITCHEN EQUIPMENT	0.65	0.0	0.0	0.0	0.0	0.0	0.0	10.3	9.7	12.7	32.6
	TOTAL KVA	17.3	16.7	17.3	18.2	16.9	17.9	14.0	11.2	15.0	93.3
	TOTAL KVA PER PHASE (KVA)	32.2	28.1	33.0							
	TOTAL AMPS PER PHASE (A)	269	234	275							

MINIMUM PANEL AMPACITY 275 Amps

FAULT CURRENT CALCULATIONS

MAXIMUM AVAILABLE FAULT CURRENT (Iaic)
Isc = (Iaic x M) ; M = 1 / (1 + F)
F (3Ø) = (1.73 x L x Iaic) / (C x N x Vp)
F (1Ø) = (2 x L x Iaic) / (C x N x Vp)

FAULT POINT	FAULT LOCATION	DISTANCE IN FEET (L)	PHASE	AL / CU	SIZE	# OF RUNS (N)	CONDUIT; MAG=1 NON-MAG=2	PRIMARY VOLT. (Vp)	SECONDARY VOLT. (Vs)	WIRE FACTOR (C)	XFMS SIZE (kVA)	XFMR IMPEDANCE (%Z)	UPSTREAM FAULT (Iaic)	FAULT VALUE (Isc)
1	150KVA UTILITY XFMR											1.3		**32000**
2	NEW 400A CT/DISC.	25	3	AL	250	2	2	208		25724			32000	**25418**
3	NEW PANEL A	40	3	AL	250	2	1	208		24244			25418	**18839**
4	NEW PANEL BDP	30	3	CU	12	1	1	208		617			18839	**2184**
5	NEW PANEL B	5	3	AL	250	2	1	208		24244			18839	**18248**



1 / E600 **RISER DISTRIBUTION DIAGRAM**
NOT TO SCALE

REVISION	DATE	CHKD
5		
4		
3	11/07/24	
2 IFC SET	07/29/24	
1 ADDENDUM 1	02/20/24	
0 PERMIT SET		

PROJ. 2304351
DATE: 01/04/2024
CHKD: 01/04/2024

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Ayman Elbarasi, N.Y. Professional Engineer, Lic. 102639

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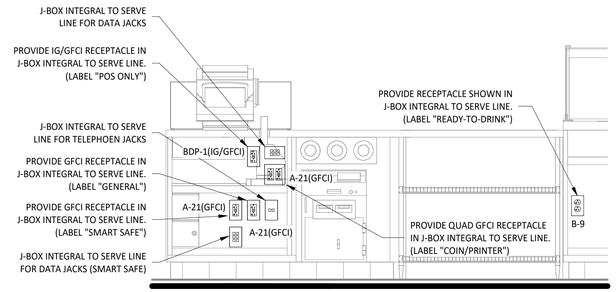
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EXTERIOR SHELL BUILDING ONLY)

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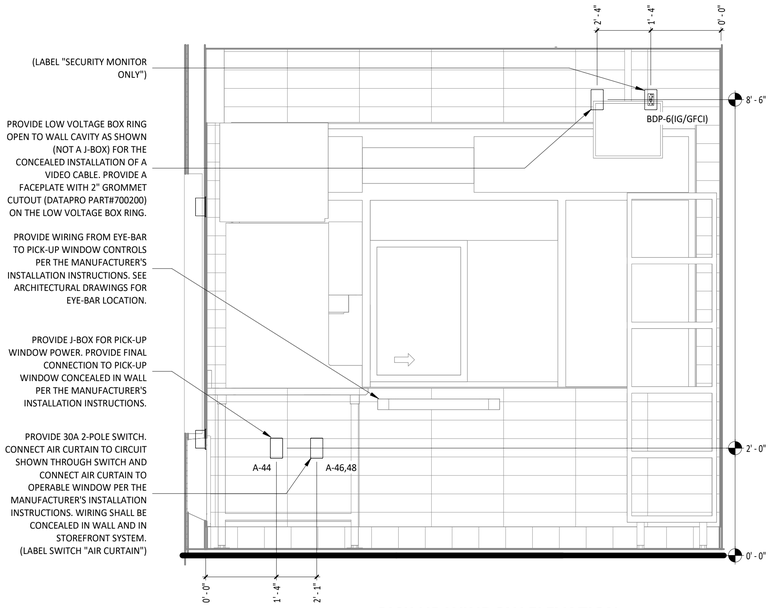
E600

ELECTRICAL SCHEDULES



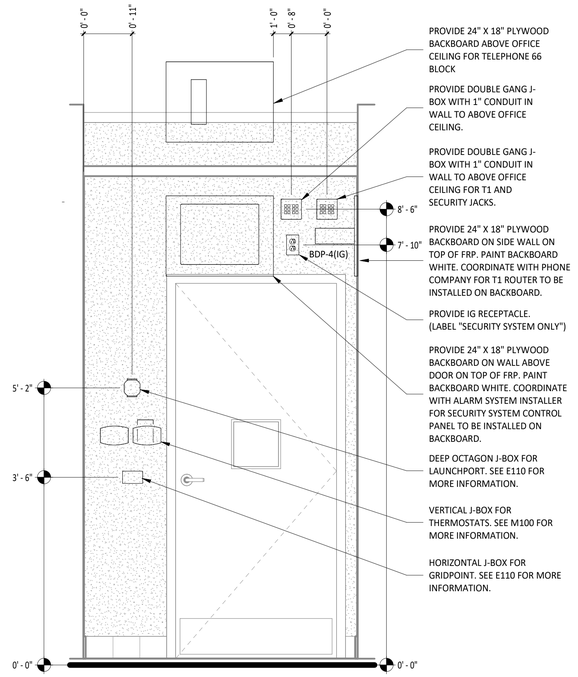
6 E700 POS COUNTER ELECTRICAL ELEVATION

3/4" = 1'-0"



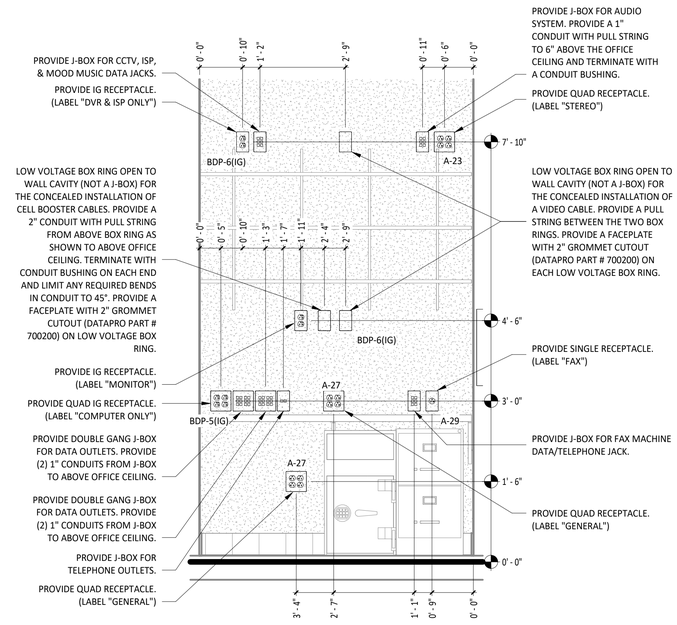
5 E700 PICK UP WINDOW ELEVATION

3/4" = 1'-0"



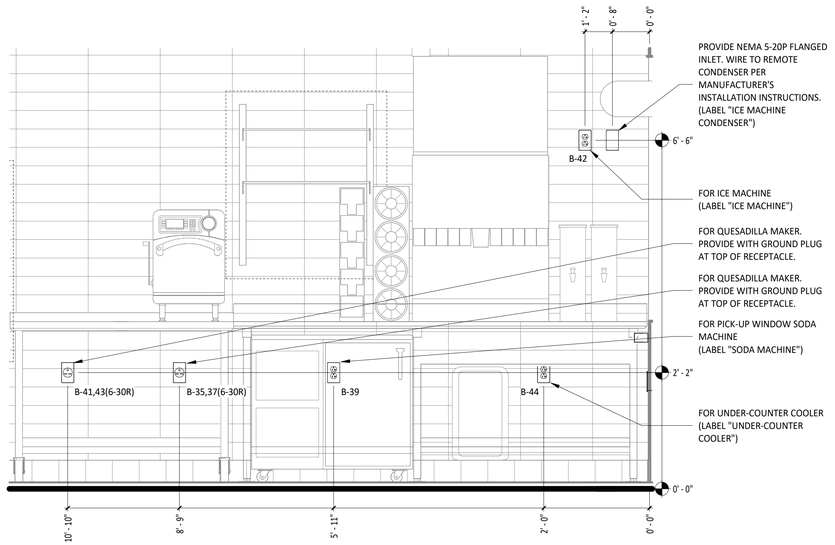
4 E700 OFFICE DOOR ELECTRICAL ELEVATION

3/4" = 1'-0"



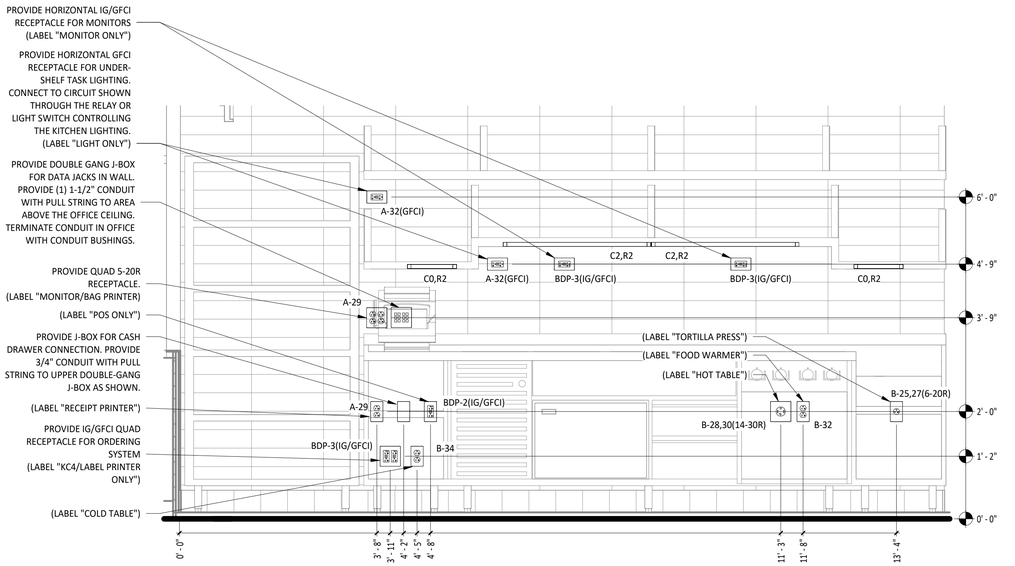
3 E700 OFFICE DESK ELECTRICAL ELEVATION

3/4" = 1'-0"



2 E700 PUW COLD SIDE ELECTRICAL ELEVATION

3/4" = 1'-0"



1 E700 DML ELECTRICAL ELEVATION

3/4" = 1'-0"

	REVISION	DATE	CHKD
5			
4			
3		11/07/24	
2	IFC SET	07/29/24	
1	ADDENDUM 1	02/20/24	
0	PERMIT SET		

PROJ.: 230435
DATE: 01/04/2024
CHKD: 01/04/2024

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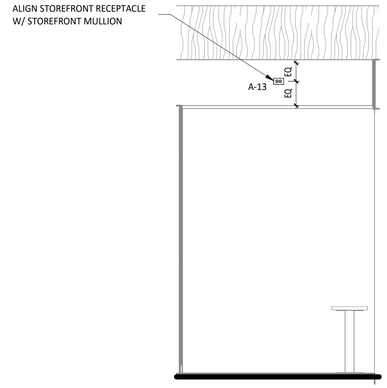
Ayman Elbarasi, N.Y. Professional Engineer, Lic. 102639

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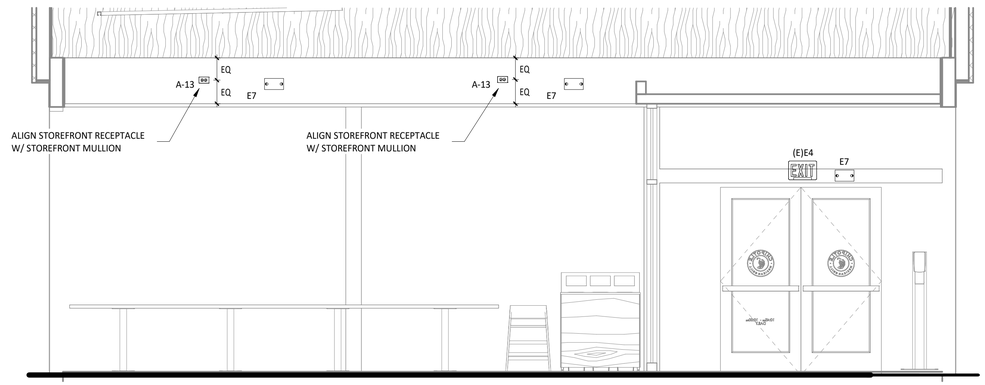
E700

ELECTRICAL INTERIOR ELEVATIONS



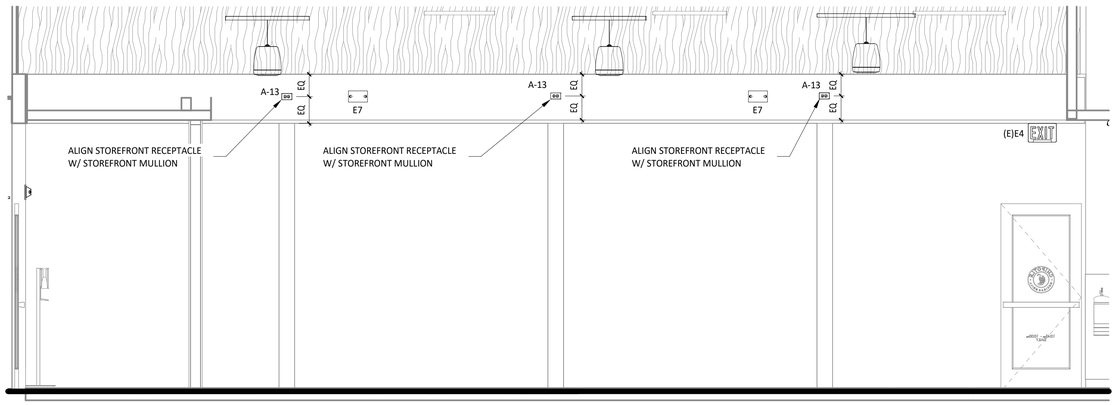
3 E705 **DINING ROOM ELECTRICAL ELEVATION**

3/8" = 1'-0"



2 E705 **DINING ROOM ELECTRICAL ELEVATION**

3/8" = 1'-0"



1 E705 **DINING ROOM ELECTRICAL ELEVATION**

3/8" = 1'-0"

	REVISION	DATE	CHKD
5			
4			
3			
2	IFC SET	11/07/24	
1	ADDENDUM 1	07/29/24	
0	PERMIT SET	02/20/24	

PROJ.: 230435
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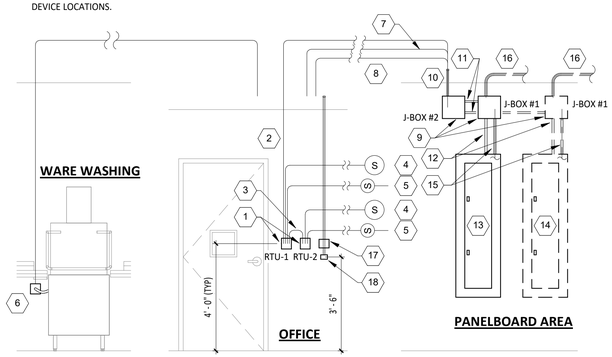
E705

ELECTRICAL INTERIOR ELEVATIONS

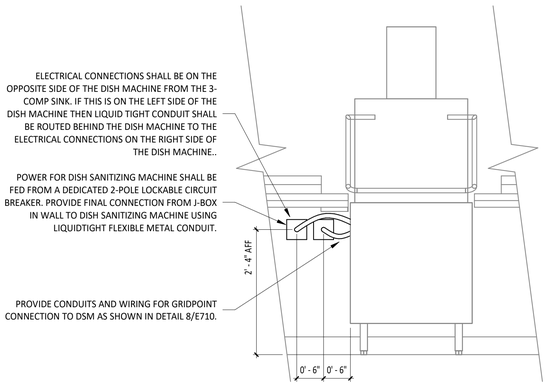
GRIDPOINT DIAGRAM NOTES

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 CATSE 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 CATSE 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) CATSE 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.



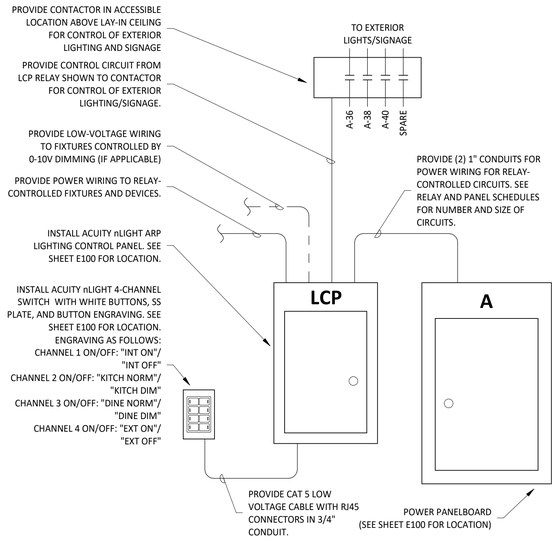
GRIDPOINT WIRING DIAGRAM
8 / E710 — NOT TO SCALE



DISH SANITIZING MACHINE ELECTRICAL DETAIL
7 / E710 — NOT TO SCALE

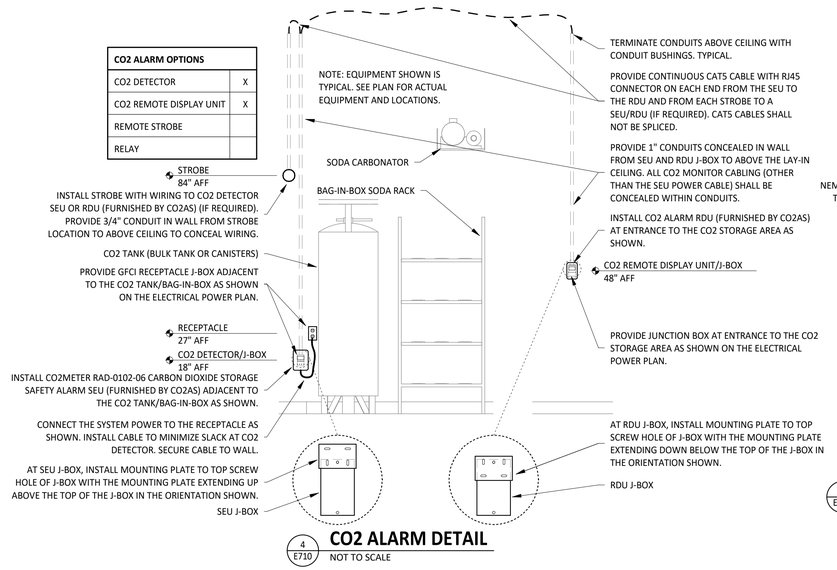
SEQUENCE OF OPERATIONS

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 ONE HOUR BEFORE SUNSET 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.

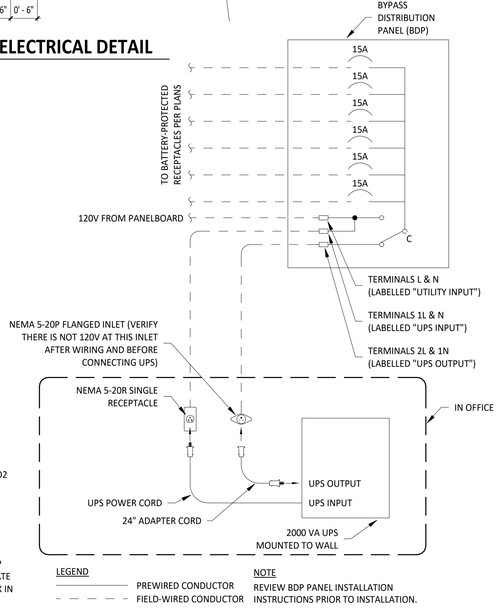


LIGHTING CONTROL DIAGRAM
6 / E710 — NOT TO SCALE

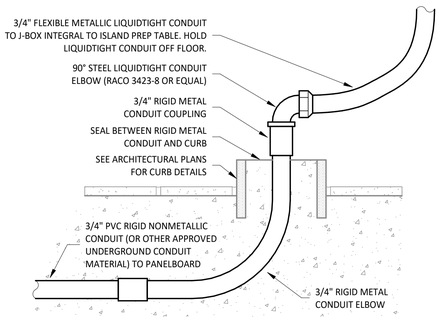
CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	



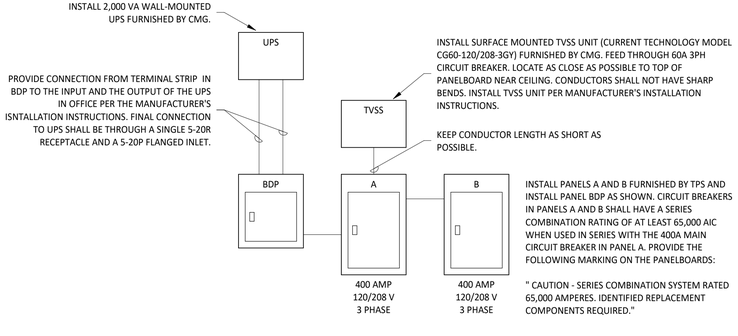
CO2 ALARM DETAIL
4 / E710 — NOT TO SCALE



BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
3 / E710 — NOT TO SCALE



PEDESTAL OUTLET DETAIL
2 / E710 — NOT TO SCALE



NOT USED
5 / E710 — NOT TO SCALE

ELECTRICAL PANEL DETAIL
1 / E710 — NOT TO SCALE

REVISION	DATE	CHKD
5		
4		
3	11/07/24	
2 IFC SET	07/29/24	
1 ADDENDUM 1	02/20/24	
0 PERMIT SET		

PROJ. 230435
DATE: 01/04/2024
CHKD: 01/04/2024

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SHEET TITLE:
E710
ELECTRICAL DETAILS