REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:	THE AURORA MUNICIPAL CENTER 575 OAKWOOD AVE. EAST AURORA, NY 14052 CONTACT: DOLLY BAILEY E: BUILDING@TOWNOFAURORA.COM T: (716) 652-7591	BUILDING DEPARTMENT:	THE AURORA MUNICIPAL CENTER 575 OAKWOOD AVE. EAST AURORA, NY 14052 CONTACT: DOLLY BAILEY E: BUILDING@TOWNOFAURORA.COM T: (716) 652-7591	HEALTH DEPARTMENT:	ERIE COUNTY DEPARTMENT OF HEALTH ENVIRONMENTAL HEALTH DIVISION 503 KENSINGTON AVE. BUFFALO, NY 14214 CONTACT: JASON MERRITT T (MAIN): (716) 961-6800 T (DIRECT): (716) 843-4622
FIRE DEPARTMENT:	THE AURORA MUNICIPAL CENTER 575 OAKWOOD AVE. EAST AURORA, NY 14052 CONTACT: DOLLY BAILEY E: BUILDING@TOWNOFAURORA.COM T: (716) 652-7591	WATER UTILITY:	VILLAGE OF EAST AURORA 400 PINE STREET EAST AURORA, NY 14052 T: (716) 652-6057	SEWER UTILITY:	ERIE COUNTY SEWER DISTRICT NOS 3 & 8 S-3690 LAKE SHORE ROAD BUFFALO, NY 14219 T: (716) 823-8188
NATURAL GAS UTILITY:	NATIONAL FUEL 40 MAIN STREET BUFFALO, NY 14203 T: (800) 365-3234	ELECTRICAL UTILITY:	NYSEG P.O. BOX 5240 BINGHAMTON, NY 13902 T: (800) 572-1111	WASTEWATER UTILITY:	THE AURORA MUNICIPAL CENTER 575 OAKWOOD AVE. EAST AURORA, NY 14052 CONTACT: DOLLY BAILEY E: BUILDING@TOWNOFAURORA.COM T: (716) 652-7591

PROJECT INFORMATION

LANDLORD:	BENDERSON 570 DELAWARE AVENUE BUFFALO, NY 14202 CONTACT: DAN HAYDEN E: DJH@BENDERSON.COM T: (716) 878-9649	TENANT:	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: BRIA STAIB E: BRIA.STAIB@CHIPOTLE.COM T: (314) 956-3411	ARCHITECT:	LINGLE DESIGN GROUP 158 WEST MAIN STREET LENA, IL 61048 CONTACT: DREW GOEKE E: DREWGOEKE@LINGLEDESIGN.COM T: (815) 369-9155 X114
MECHANICAL ELECTRICAL PLUMBING ENGINEER:	CASE ENGINEERING INC. 796 MERUS COURT ST. LOUIS, MO 63026 CONTACT: LUKE WILD E: LWILD@CASEENGINEERINGINC.COM T: (636) 349-1600 X228	STRUCTURAL ENGINEER:	CASE ENGINEERING INC. 796 MERUS COURT ST. LOUIS, MO 63026 CONTACT: ARDIE MANSOURI E: LMANSOURI@CASEENGINEERINGINC.COM T: (636) 349-1600 X291		

UTILITY COORDINATOR

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

EBI CONSULTING
21 B ST.
BURLINGTON, MA 01803
CONTACT: JULIO VERA
E: JVERA@EBICONSULTING.COM
T: (787) 344-1439

SIGN VENDOR

BROADWAY NATIONAL
100 DAVIDS DRIVE
HAUPPAUGE, NY 11788
CONTACT: LANETTE LUCKSAVAGE
E: LLUCKSAVAGE@BROADWAYNATIONAL.COM
T: (631) 737-3140 x3008

GRAPHIC SYMBOLS

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

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: 5494

EAST AURORA
168 MAIN STREET
EAST AURORA, NY 14052

SCOPE OF WORK

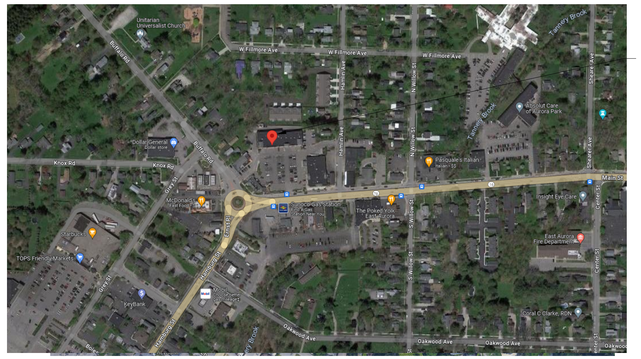
INLINE FIRST-GENERATION TENANT FIT OUT

GROUP: A-2 RESTAURANT
TENANT: CHIPOTLE MEXICAN GRILL

PROJECT NOTES

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

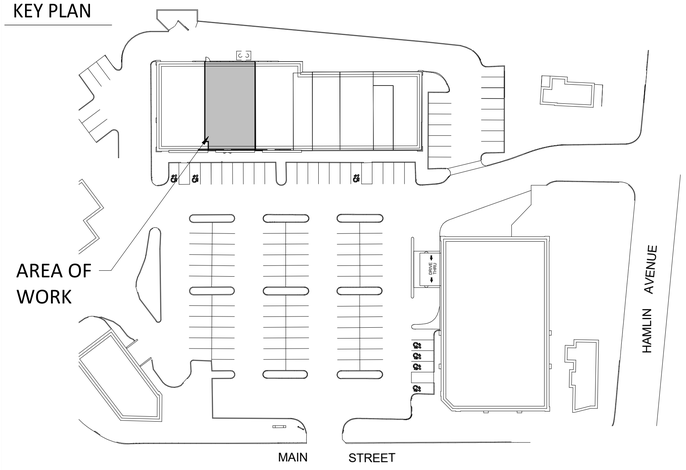
VICINITY MAP



168 MAIN ST.
E. AURORA, NY
14052

1 / G000 — **VICINITY MAP** — N.T.S.

KEY PLAN



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

DRAWING INDEX AND REVISIONS

SHEET NO.	SHEET NAME	REVISION 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
GENERAL																
G000	COVER SHEET															
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															
DEMOLITION																
D100	DEMOLITION SLAB PLAN															
SITE ARCHITECTURAL																
SP100	ARCHITECTURAL SITE PLAN	•														
ARCHITECTURAL																
A101	SLAB WORK PLAN		•													
A110	ARCHITECTURAL FLOOR PLAN	•	•													
A120	FINISH PLAN	•														
A130	FF&E PLAN	•														
A131	EQUIPMENT SCHEDULE	•														
A132	EQUIP. & FURNITURE SCHEDULE	•														
A140	ARCHITECTURAL ROOF PLAN															
A200	REFLECTED CEILING PLAN DIMENSIONED	•	•													
A201	REFLECTED CEILING PLAN	•	•													
A202	REFLECTED CEILING & UNISTRUT PLAN															
A210	CEILING DETAILS															
A211	CEILING DETAILS															
A212	LIGHTING DETAILS															
A301	EXTERIOR ELEVATIONS															
A501	ARCHITECTURAL WALL TYPES		•													
A502	INTERIOR SECTIONS		•													
A601	DOOR & HARDWARE SCHEDULE															
A602	STOREFRONT DETAILS															
A701	ELEVATIONS - INTERIOR DINING															
A702	ELEVATIONS - INTERIOR KITCHEN															
A703	ELEVATIONS - INTERIOR KITCHEN	•														
A710	RESTROOM DETAILS		•													
A801	FINISH DETAILS															
A802	TILE DETAILS															
A900	INTERIOR PERSPECTIVES															
A901	EXTERIOR PERSPECTIVES															
STRUCTURAL																
S1.1	GENERAL NOTES															
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S2.2	ROOF FRAMING PLAN			•												
MECHANICAL																
M010	HVAC SPECIFICATIONS															
M100	HVAC PLAN	•	•	•												
M600	MECHANICAL SCHEDULES															
2 M601	MECHANICAL CALCULATIONS		•													
M700	MECHANICAL DETAILS															
M800	HOOD DRAWINGS		•													
2 M801	HOOD DRAWINGS		•													
PLUMBING																
P011	PLUMBING SPECIFICATIONS (TI)															
P100	PLUMBING PLAN WATER & GAS	•	•													
P110	PLUMBING PLAN WASTE & VENT	•	•													
P600	PLUMBING SCHEDULES															
P700	PLUMBING DETAILS															
ELECTRICAL																
E010	ELECTRICAL SPECIFICATIONS															
E100	ELECTRICAL LIGHTING PLAN			•	•											
E110	ELECTRICAL POWER PLAN	•		•												
E600	ELECTRICAL SCHEDULES	•		•												
E700	ELECTRICAL INTERIOR ELEVATIONS															
E705	ELECTRICAL INTERIOR ELEVATIONS															
E710	ELECTRICAL DETAILS															

DEFERRED SUBMITTALS:

*G.C. REQUIRED TO SUBMIT DEFERRED SUBMITTALS TO THE BUILDING DEPARTMENT.

SEPARATE PERMITS:

-SIGNAGE

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

REGISTERED ARCHITECT CARL L. LINGLE 029442-1 STATE OF NEW YORK

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

STORE NO.: 5494
EAST AURORA
168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
01/22/25	ISSUE FOR CONSTRUCTION SET

Revisions:

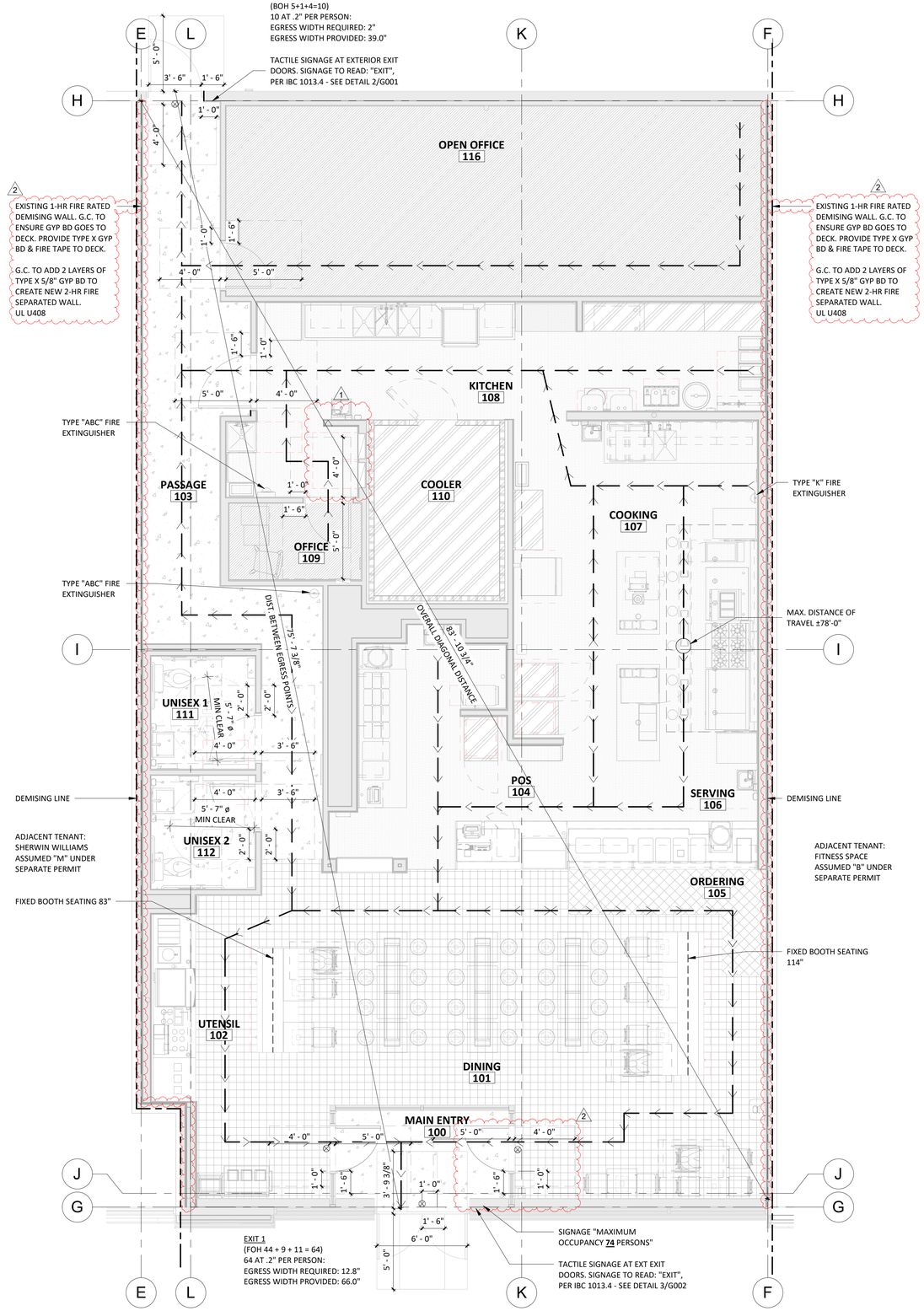
2	10/17/24	BUILDING COMMENTS

Drawn: EYW
Checked: DG

Project No.: CMG 5494

Contents: COVER SHEET

G000



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

OCCUPANCY LOAD (PER CBC TABLE 1004.5)

ASSEMBLY AREAS	TOTAL	CALCULATED OCCUPANT LOAD	ACTUAL SEAT COUNT/EMPLOYEES
DINING (ASSEMBLY W/O FIXED SEATING - UNCONCENTRATED): 15 NET SF PER OCCUPANT	650 SF	44	44
ASSEMBLY W/FIXED BOOTH SEATING 24 LINEAL INCHES PER OCCUPANT	197 LI	9	7
STANDING SPACE (ASSEMBLY W/O FIXED SEATING): 5 NET SF PER OCCUPANT	52 SF	11	-
KITCHENS COMMERCIAL: 200 GROSS SF PER OCCUPANT	854 SF	5	7
ACCESSORY/STORAGE: 300 GROSS SF PER OCCUPANT	160 SF	1	-
OFFICE (BUSINESS AREA): 150 GROSS SF PER OCCUPANT	44 SF	1	1
OPEN OFFICE (BUSINESS AREA): 150 GROSS SF PER OCCUPANT	447 SF	3	3
TOTAL OCCUPANTS:		74	62
CIRCULATION SPACE: 0 SF PER OCCUPANT	463 SF	-	
UNOCCUPIED (ACCESSORY AREA IN ASSEMBLE AREA): 0 SF PER OCCUPANT	313 SF	-	

ACCESSIBLE SEATING CALCULATIONS

TOTAL SEATING: 44 INT.	
TOTAL REQUIRED ACCESSIBLE INTERIOR SEATING (5% OF TOTAL)	3

RESTROOM PLUMBING FIXTURES

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

BUILDING OCCUPANCY CALCULATIONS (FROM *"OCCUPANCY LOAD"* TABLE)

MAXIMUM OCCUPANTS (GREATEST OF OCCUPANCY CALCULATIONS OR SEAT)

CALCULATED OCCUPANCY = 74

50% MALE AND 50% FEMALE = 74/2 = 37

FEMALE - REQUIRED FIXTURES 1-75 = MALE - REQUIRED FIXTURES 1-75 = REQUIRED LAVATORIES 1-200 =	W.C. MALE	UR. MALE	W.C. FEMALE	LAV. MALE/FEMALE
	1	0	1	1 EACH

TYPE OF FIXTURE	MALE		FEMALE	
	REQUIRED	PROVIDED	REQUIRED	PROVIDED
WATER CLOSET	1	1	1	1
LAVATORIES	1	1	1	1
SERVICE SINK	1 PROVIDED			

LINE LEGEND - LIFE SAFETY PLANS

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

BUILDING CODE & ZONING DATA

1. OCCUPANCY GROUP: A-2 w/Restaurant occupancy
   OCCUPANCY SEPARATION REQUIRED: 2-HR
   OCCUPANCY SEPARATION PROVIDED: 2-HR
2. TYPE OF CONSTRUCTION: II-B
3. USE GROUP: A-2
   ALLOWABLE AREA: 9,500 SF (NON-SPRINKLED)
   AREA INCREASE W/ SPRINKLERS: N/A
   ACTUAL AREA: 3,143 SF
   TENANT LEASE AREA: 3,143 SF
4. ALLOWABLE NO. OF STORIES: 1
   ACTUAL NO. OF STORIES: 1
   ALLOWABLE BUILDING HEIGHT: 55'-0" MAXIMUM HEIGHT
   ACTUAL BUILDING HEIGHT: ±27'-9"
5. POSTED OCCUPANT LOAD 74

   SEATING:
   INTERIOR: 44 SEATS
   PATIO: 0 SEATS
   TOTAL: 44 SEATS

6. BUILDING EGRESS
   TOTAL EGRESS WIDTH REQUIRED:
   74 MAX INT. OCCUP. X .2" = 14.8"
   TOTAL EGRESS WIDTH PROVIDED:
   ONE 66" + ONE 39" CLEAR DOOR EXITS LEAFS = 105"
   MAIN ENTRANCE
   WIDTH REQUIRED (1/2 OCCUPANT LOAD):
   74 INTERIOR OCCUP. / 2 = 37 X .2" = 7.4"
   CLEAR WIDTH PROVIDED: 66"
6. MEANS OF EGRESS REQUIRED: 2 (PER 1006.3.3)
   MEANS OF EGRESS PROVIDED: 2
7. FIRE SPRINKLERS: NONE
8. PLUMBING FIXTURES

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

NOTE: PER 2902.2 SEPARATE FACILITIES SHALL BE PROVIDED FOR EA SEX.

CODE AUTHORITIES

BUILDING CODE:	2020 BUILDING CODE OF NEW YORK STATE (2018 IBC) W/ LOCAL AMENDMENTS
EXISTING BUILDING CODE:	2020 EXISTING BUILDING CODE OF NEW YORK STATE (2018 IEBC) W/ LOCAL AMENDMENTS
MECHANICAL CODE:	2020 MECHANICAL CODE OF NEW YORK STATE (2018 IMC) W/ LOCAL AMENDMENTS
PLUMBING CODE:	2020 PLUMBING CODE OF NEW YORK STATE (2018 IPC) W/ LOCAL AMENDMENTS
ENERGY CODE:	2020 ENERGY CONSERVATION CODE OF NEW YORK STATE (2018IECC) W/ LOCAL AMENDMENTS
FUEL GAS CODE:	2020 FUEL GAS CODE OF NEW YORK STATE (2018 IFGC) W/ LOCAL AMENDMENTS
ELECTRICAL CODE:	2017 NATIONAL ELECTRIC CODE (NFPA 70-17)
FIRE CODE:	2020 FIRE CODE OF NEW YORK STATE (2018 IFC) W/ LOCAL AMENDMENTS
ACCESSIBLITY:	2009 ICC A117.1 ACCESSIBLE AND USABLE BUILDINGS & FACILITIES

EGRESS SEPARATION NOTE
OVERALL DISTANCE: 83' - 10 3/4"

REQUIRED SEPARATION: 41' - 11 3/8"
(NON-SPRINKLERED & PER 1007.1.1, NOT LESS THAN 1/2 THE LENGTH OF MAX OVERALL DIAGONAL DIMENSION OF THE BLDG AREA TO BE SERVED)

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

PROVIDED SEPARATION: 75' - 7 3/8"

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5873
WWW.LINGLEDESIGN.COM

REGISTERED ARCHITECT CARL L. LINGLE 029442-1 STATE OF NEW YORK

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

STORE NO.: 5494
EAST AURORA
168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

1	09/09/24	OWNER CHANGES
2	10/17/24	BUILDING COMMENTS

Drawn: EYW Checked: DG

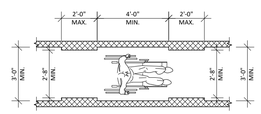
Project No. CMG 5494

Contents:

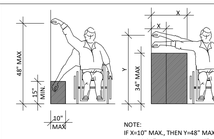
PROJECT DATA & LIFE SAFETY PLAN

G001

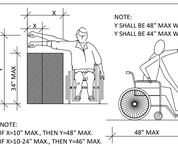
TYPICAL ACCESSIBILITY DETAILS



CLEAR WIDTH OF AN ACCESSIBLE ROUTE

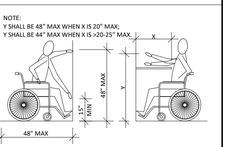


HIGH AND LOW SIDE REACH LIMITS



NOTE:
IF X=10" MAX., THEN Y=48" MAX.
IF X>10-24" MAX., THEN Y=46" MAX.

MAXIMUM SIDE REACH OVER OBSTRUCTION.

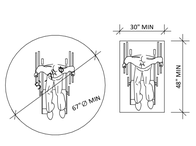


UNOBSTRUCTED FORWARD REACH

MAXIMUM FORWARD REACH OVER A HIGH OBSTRUCTION

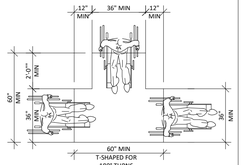
SIDE REACH

FRONT REACH

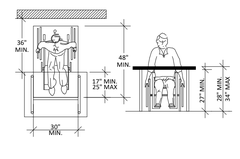


67 IN DIAMETER SPACE

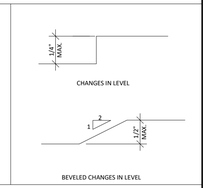
SIZE OF CLEAR FLOOR SPACE



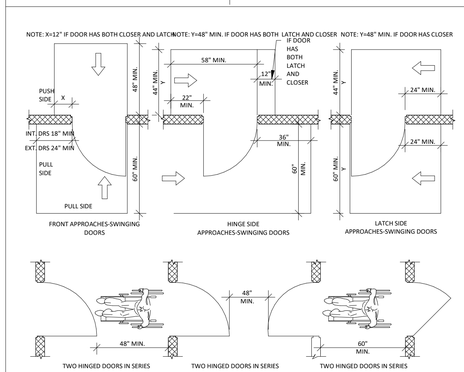
60" MIN T-SHAPED FOR 180° TURNS



ACCESSIBLE SEATING



BEVELED CHANGES IN LEVEL



FRONT APPROACHES-SWINGING DOORS

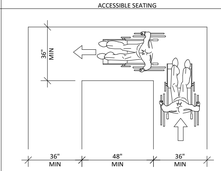
HINGE SIDE APPROACHES-SWINGING DOORS

LATCH SIDE APPROACHES-SWINGING DOORS

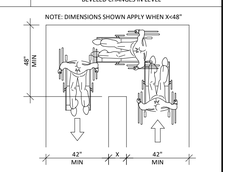
TWO HINGED DOORS IN SERIES

TWO HINGED DOORS IN SERIES

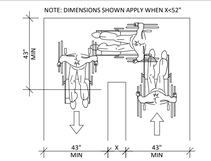
TWO HINGED DOORS IN SERIES



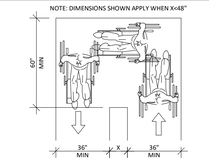
90° TURN



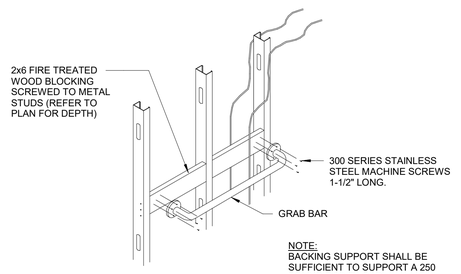
180° TURN



180° TURN



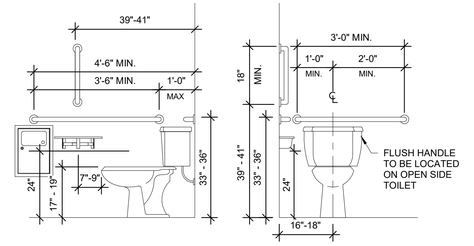
180° TURN (EXCEPTION)

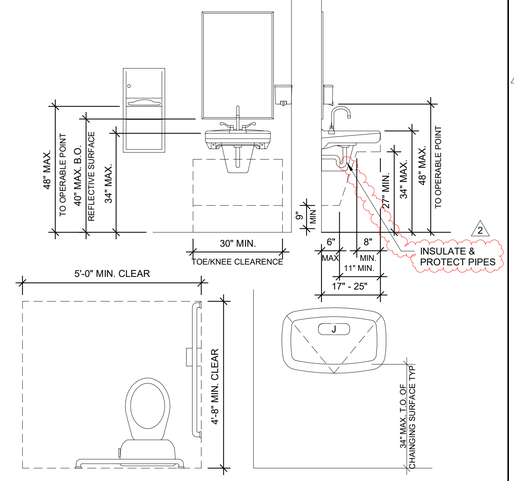


NOTE:
BACKING SUPPORT SHALL BE SUFFICIENT TO SUPPORT A 250 POUND POINT LOAD.

4 G002 TYP. GRAB BAR ATTACHMENT

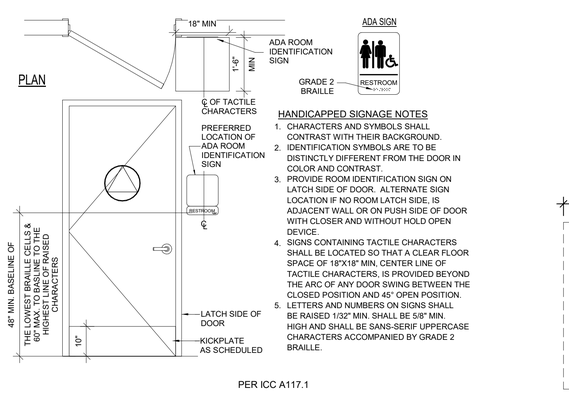
1/2" = 1'-0"





1 G002 REQ. ACCESSIBILITY DETAILS

1/2" = 1'-0"



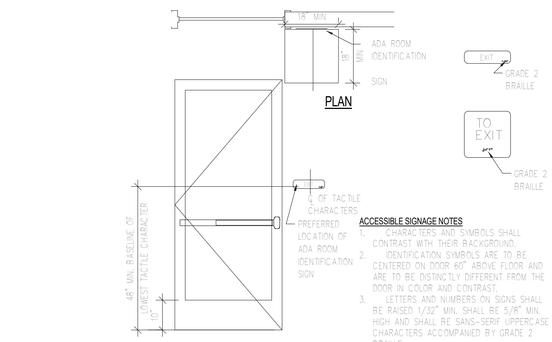
HANDICAPPED SIGNAGE NOTES

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

PER ICC A117.1

2 G002 RESTROOM SIGNAGE DETAIL

1/2" = 1'-0"



ACCESSIBLE SIGNAGE NOTES

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

3 G002 EXIT SIGNAGE

1/4" = 1'-0"

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5873
WWW.LINGLEDESIGN.COM

REGISTERED ARCHITECT
CARL L. LINGLE
029442-1
STATE OF NEW YORK

CHIPOTLE MEXICAN GRILL

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

STORE NO.: 5494

EAST AURORA
168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

2	10/17/24	BUILDING COMMENTS

Drawn: EYW

Checked: DG

Project No.
CMG 5494

Contents:
ACCESSIBILITY REQUIREMENTS

G002

DIVISION 1 - GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

1.1 Contract Documents:

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

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

1.2 Scope of Work:

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

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

SECTION 01300 - ADMINISTRATIVE REQUIREMENTS

1.1 Coordination:

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

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

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

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

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

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

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

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

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

1.2 Submittals:

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

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

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

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

1.3 Requests For Information

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

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

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

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

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

SECTION 01400 - QUALITY REQUIREMENTS

1.1 Regulatory Requirements:

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

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

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

1.2 Quality Control:

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

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

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

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

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

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

1.3 Testing:

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

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

SECTION 01500 - TEMPORARY FACILITIES AND CONTROLS

1.1 Provide temporary facilities and controls as shown and specified:

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

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

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

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

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

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

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

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

I. Cleaning
   1. During Construction: Provide an approved on-site container for the use of all Contractors and Subcontractors for the collection of waste materials, debris and rubbish. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulations of waste materials, rubbish and windblown debris, resulting from construction operations. Remove crates and cartons in which materials, equipment, or fixtures are received to on-site containers daily.
      a. Maintain the property in a clean and orderly condition. Remove waste materials, debris and rubbish from the site on a daily basis and dispose of at legal disposal areas away from the site.
   2. Dust Control:
      a. Remove debris and rubbish from pipe chases, plenums and other similar closed or remote spaces prior to covering or enclosing the space.
      b. Sweep and vacuum clean interior surfaces before start of surface finishing and painting. Continue cleaning on an as-needed basis until finishing and painting is completed.
      c. Cleaning operations shall be acceptable to the Tenant's Construction Manager.

SECTION 01630 - SUBSTITUTIONS

1.1 General:

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

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

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

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

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

SECTION 01700 - EXECUTION REQUIREMENTS

1.1 Preparation:

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

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

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

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

1.3 Cleaning

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

1.4 Starting and Adjusting:

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

1.5 Contract Closeout:

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

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

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

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

DIVISION 2 - SITE CONSTRUCTION

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

2.1 Materials:

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

DIVISION 3 - CONCRETE

SECTION 03300 - CAST-IN-PLACE CONCRETE

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

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

2.1 Materials:

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

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

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

3.1 Installation

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

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

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

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

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

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

SECTION 033600 - RESINOUS FLOORING

1.1 General: Section includes: Decorative resinous flooring systems.

1.2 System Description:

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

1.3 Quality Assurance:

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

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

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

1.4 Delivery, Storage & Handling:

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

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

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

1.5 Project Conditions:

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

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

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2.1 Materials:

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

2.1 Flooring System:

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

2.3 Product Substitutions:

A. Substitutions: No substitutions permitted.

2.4 Source Quality:

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

3.1 Manufacturer's Instructions:

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

3.2 Examination:

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

3.3. Preparation:

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

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

3.4 Installation:

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

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

3.5 Protection:

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

SECTION 03395 - CONCRETE SEALING AND POLISHING

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

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

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

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

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

2.1 Materials

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

3.1 Installation

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

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

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

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

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

DIVISION 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. 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 05500 - METAL FABRICATIONS

1.1 General: Provide metal fabrications as shown and specified.

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

2.1 Materials

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

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

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

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

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

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

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

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

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

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

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

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

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

DIVISION 6 - WOOD AND PLASTICS

SECTION 06100 - ROUGH CARPENTRY

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

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

2.1 Materials:

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

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

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

2.2 Wood Treatment:

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

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

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

3.1 Installation:

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

SECTION 06210 - FINISH CARPENTRY AND MILLWORK

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

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

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

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

2.1 Materials:

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

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

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

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

3.1 Installation

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

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

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

SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS

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

2.1 Materials:

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

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

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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 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 07900 – JOINT SEALERS

1.1 General: Provide joint sealers as shown and specified.

A. Standards:Comply with ASTM C 920 requirements.

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

2.1 Materials:

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

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

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

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

3.1 Installation:

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

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

4.1 Sealant Schedule:

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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 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 with Tenant.
a. GC to use specification called out on storefront details sheet and/or as directed by Tenant Arch PM.

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

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

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

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

B. Alternate California Code Option

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

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

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

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

2.3 Electrical Requirements

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

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

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

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

3.1 Installation

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

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

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

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

2.1 Materials:

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

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

3.1 Installation

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

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CHIPOTLE MEXICAN GRILL

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Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

Drawn: EYW
Checked: DG

Project No.
CMG 5494

Contents:
ARCHITECTURAL SPECIFICATIONS

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

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

SECTION 08800 - GLAZING

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

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

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

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

2.1 Materials:

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

4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar

5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

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

C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

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

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

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

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

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

DIVISION 9 -- FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

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

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

2.1 Materials:

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

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

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

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

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

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

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

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

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

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

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

3.1 Installation

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

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

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

D. Finishing:
1. Comply with manufacturer's instructions for mixing, handling, and application of materials. Apply treatment at joints both directions, at flanges of trim accessories, penetrations of gypsum board (electrical boxes, piping, and similar work), fastener heads, surface defects, and elsewhere as indicated. Apply in manner that will result in each of these items being concealed when applied decoration has been completed.
2. Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.

3. Interior Exposed Gypsum Board Finish: Level 5 Finish.
a. Locations: Typical for all walls and ceilings, unless otherwise indicated
b. Finish interior gypsum board by applying the following joint compounds in four coats (not including prefill of openings in base), and sand between coats and after last coat:
c. Embedding and First Coat: Setting-type joint or taping compound.
d. Fill (Second) Coat: Setting-type topping compound.
e. Fill (Third) Coat: Setting-type topping compound.
f. Finish (Fourth) Coat: Skim coat entire surface.

4. Interior Concealed Gypsum Board: Level 3 Partial Finishing.
a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.

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

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

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

A. Standards: Materials and installation shall conform to the following:
1. ASTM C840 Standard Specification for Application and Finishing of Gypsum Board.
2. ASTM C1002 Standard 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 093000 - PORCELAIN FLOOR TILE

1.1 General: Provide porcelain tile flooring 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."

1.2 Performance Requirements:

A. Static Coefficient of Friction: Tile on walkway surfaces shall be provided with the following values as determined by testing in conformance with ASTM C 1028.
1. Level Surfaces and Step Treads: Minimum of 0.6 (Wet).
2. Ramp Surfaces: Minimum of 0.8 (Wet).

1.3 Quality Assurance:

A. Installer Qualifications: Company specializing in performing the work in this section with minimum two years' experience.

B. Single Source Responsibility: Obtain each type and color of tile from a single source. Obtain each type and color of mortar, adhesive and grout from the same source.

1.4 Delivery, Storage, and Handling:

A. Deliver and store products in manufacturer's unopened packaging until ready for installation.

B. Protect adhesives and liquid additives from freezing or overheating in accordance with manufacturer's instructions.

C. Store tile and setting materials on elevated platforms, under cover and in a dry location and protect from contamination, dampness, freezing or overheating.

1.5 Environmental Requirements:

A. Do not install adhesives in an unventilated environment.

B. Maintain ambient and substrate temperature of 50 degrees F (10 degrees C) during tiling and for a minimum of 7 days after completion.

1.6 Extra Materials:

A. Provide for Owner's use a minimum of 2 percent of the primary sizes and colors of tile specified, boxed and clearly labeled.

2.1 Materials:

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

B. Tile:
1. General: Provide tile that complies with ANSI A137.1 for types, compositions and other characteristics indicated. Provide tile in the locations and of the types, colors and pattern indicated on the Drawings. Tile shall also be provided in accordance with the following:
a. Factory Blending: For tile exhibiting color variations within the acceptable ranges, blend tile in factory and package tile so tile taken from one package shows the same range of colors as those taken from other packages.
b. Factory Applied Temporary Protective Coatings: Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by pre-coating with a continuous fill of petroleum paraffin wax applied hot. Do not coat unexposed tile surfaces.
2. Glazed Porcelain Tile: Series: Volume 1.0, Part #: VL7012241P6, Size: 12x24, Color: VL70 Amplify Black, Pattern: 1/3 running bond.
a. Moisture Absorption: Less than .5 percent to less than 20 percent.
b. Trim Units: Matching bullnose, cove base corner, cove base shapes in sizes coordinated with field tile.
3. Non-Ceramic Trim: Finish as indicated on the Drawings, style and dimensions to suit application, for setting using tile mortar or adhesive; use in the following locations:
a. Open edges of floor tile.
b. Transition between floor finishes of different heights and/or materials.
c. Expansion and control joints, floor and wall.

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: #47, "Charcoal", 3/16" grout joints.

F. Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

A. Examination:
1. Verify that wall and sub-floor surfaces are dust-free, and free of substances which would impair bonding of setting materials to sub-floor surfaces, and are smooth and flat with tolerances specified in ANSI A137.1.
2. Verify that concrete sub-floor surfaces are ready for tile installation by testing for moisture emission rate and alkalinity; obtain instructions if test results are not within limits recommended by tile manufacturer and setting materials manufacturer.
3. Verify that required floor-mounted utilities are in correct location.

B. Preparation:
1. Protect surrounding work from damage.
2. Remove any curing compounds or other contaminates.
3. Vacuum clean surfaces and damp clean.
4. Seal substrate surface cracks with fillers. Level existing substrate surfaces to acceptable flatness tolerances.
5. Install cementitious backer board (if applicable) 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.
6. Prepare substrate surfaces for adhesive installation in accordance with adhesive manufacturer's instructions.

C. Installation - General:
1. Install tile and grout in accordance with applicable requirements of ANSI A108.1 through A108.13, manufacturer's instructions, and TCA Handbook recommendations.
2. Lay tile pattern indicated. Arrange pattern so that a full tile or joint is centered on each wall and that no tile less than 1/2 width is used. Do not interrupt tile pattern through openings. Adjust layout to minimize tile cutting. Locate cuts to be least conspicuous.
3. Cut and fit tile to penetrations through tile, leaving sealant joint space. Form corners and bases neatly. Align floor joints.
4. Place tile joints uniform in width, subject to variance in tolerance allowed in tile size. Make joints watertight, without voids, cracks, excess mortar, or excess grout. Maintain units uniformly "in plane." Provide straight, uniform joint widths and grout lines.
5. Form internal angles square and external angles bullnosed.
6. Install ceramic accessories rigidly in prepared openings.
7. Install non-ceramic trim in accordance with manufacturer's instructions.
8. Install thresholds where indicated.
9. Sound tile after setting. Replace hollow sounding units.
10. Keep expansion joints free of adhesive or grout. Apply sealant to joints.
11. Allow tile to set for a minimum of 48 hours prior to grouting.
12. Grout tile joints. Use standard grout unless otherwise indicated.
13. Apply sealant to junction of tile and dissimilar materials and junction of dissimilar planes.

D. Installation - Floors - Thin-Set Methods:
1. Over interior concrete substrates, install in accordance with TCA Handbook Method F113, dry-set or latex-portland cement bond coat, with standard grout, unless otherwise indicated.
a. Where waterproofing membrane is indicated, install in accordance with TCA Handbook Method F122, with latex-portland cement grout.
b. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F131.
2. Over wood substrates, install in accordance with TCA Handbook Method F142, with standard grout, unless otherwise indicated.
a. Where epoxy bond coat and grout are indicated, install in accordance with TCA Handbook Method F143.

E. Elevated Floor Slabs: Install waterproofing membrane at elevated floor slab surfaces scheduled to receive 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 4" high.
2. Extend membrane down into floor drain flanges to assure continuous waterproofing at drainage points.

F. Wet Areas: Install waterproofing membrane at all wall base adjacent to tile flooring. 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 base minimum 4" high. Extend waterproofing membrane 10" minimum horizontally from all vertical wall surfaces adjacent to tile flooring.

G. Cleaning:
1. Clean tile and grout surfaces.

H. Protection of Finished Work:
1. Do not permit traffic over finished floor surface for 72 hours after installation.
2. Cover floors with kraft paper and protect from dirt and residue from other trades.
3. Where floor will be exposed for prolonged periods cover with plywood or other similar type walkways.

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, Maplastic 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, Maplastic 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.

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Project No.
CMG 5494

Contents:
ARCHITECTURAL SPECIFICATIONS

G013

3.1 Installation

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

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

SECTION 09510 - SUSPENDED CEILING SYSTEMS

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

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

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

2.1 Materials:

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

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

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

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

3.1 Installation

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

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

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

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

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

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

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

SECTION 09510 - ACOUSTICAL CEILINGS (FELT BAFFLE)

1.1 General: Provide acoustical ceiling continuous/wall to wall system as shown and specified.

1.2 Related Documents

A. Section Includes:
   1. Drawings and general conditions of Contract, including General and Supplementary Conditions and Divisions -1
   2. Specification sections apply to work of this section.

1.3 Summary

A. Section Includes:
   1. Acoustical ceiling panels

1.4 Quality Assurance:

A. Acoustic Panels: As with other architectural features located at the ceiling, may obstruct or skew the planned fire sprinkler water distribution pattern through possibly delay or accelerate the activation of the sprinkler or fire detection systems by channeling heat from a fire either toward or away from the device. Designers and installers are advised to consult a fire protection engineer, NFPA 13, or their local codes for guidance where automatic fire detection and suppression systems are present.

B. Coordination of Work: Coordinate acoustical ceiling work with installers of related work including, but not limited to building insulation, gypsum board, light fixtures, mechanical systems, electrical systems and sprinklers.

1.5 Delivery, Storage and Handling:

A. Deliver acoustical ceiling units to project site in original, unopened packages and store them in a fully enclosed space where they will be protected against damage from moisture, direct sunlight, surface contamination, and other causes.

1.6 Warranty:

A. Acoustical Panel: Submit a written warranty executed by the manufacturer, agreeing to repair or replace panels that fail within the warranty period. Failures include, but are not limited to the following:
   1. Acoustical Panels: Sagging and warping
   2. Grid System: Rusting and manufacturer's defects

B. Warranty Period:
   1. Acoustical Panels and Grid System: One (1) year from date of substantial completion.

C. The Warranty shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under the requirements of the Contract Documents.

2.1 Materials:

A. Manufacturer:

   1. Provide "SOFFIT - Silentium Ceiling Baffle System" as manufactured by:
      a. MAXXiT Systems, Inc., 200 Admiral Blvd., Mississauga, ON L5T 2N6, Canada. General Phone: 905-206-9349 or contact:
         Daniel Biggs
         Cell phone: 1-587-987-6040
         Office phone: 1-905-206-9349
         Email address: daniel.biggs@maxxitsystems.com
      b. This has a minimum 6 week lead time and will need to be ordered early. Specs and install instruction provided by MAXXit.

   2. Alternate Ceiling Baffle System only when approved by Arch PM and Chipotle DM:
      a. TURF Design Inc, 2000 Fox Lane, Elgin, IL 60123. General Phone: 844-TURF-OMG or contact:
         Ryan Markland
         Phone: 909-367-8316
         Email address: R.Markland@turf.design

B. SOFFIT "Silentium Ceiling Baffle: 2 1/4" thick x 8 3/4" tall
   1. Material: 100% Polyester Felt (Solid Felt Baffle)
   2. Lengths: 95 1/2", 71 1/2", 47 5/8", 23 3/4"
   3. Color: Gray GP-04
   4. Flame Spread + Smoke Generation: Class A, ASTM E84
   5. Noise Reduction Coefficient (NRC): ~0.75
   6. Recyle Content: 60% PET-recylcled fiber
   7. Accessories: Finished End Cap adn Joiner Spline

C. SOFFIT Suspension Fitting:
   1. Installation hardware fitting with locking device designed to positively lock baffle panel in place. SOFFIT Suspension Fitting connects SOFFIT Ceilng Baffle to Heavy Duty T-Bar.

D. Metal Suspension Systems, General
   1. This Ceiling Baffle System is designed to be supported by and attached to a Heavy Duty T-Bar (ceiling grid) installation above it.
      a. Design the T-Bar installation to provide connection points as required for each baffle segment and provide sufficent support for the weight of the baffles.
      b. Acceptable T-Bar product: Armstrong Prelude XL, USG Donn Brand DX/DXL, or equal. Color: 360 Painted Grid - Black
         1. Grid T and face to be painted per color spec.

E. Adjacent Materials Consideration
   1. Air Distribution Devices: Provide distribution devices that are independently suspended, relocatable, capable of being fully integrated with ceiling system that requires no interruption of baffle components.
   2. Lighting Fixtures: Provide fixtures capable of being fully integrated with ceiling system and that require no interruption of baffle components.

3.1 Site Conditions:

A. Begin system installation only after space is enclosed and weather-tight; and after all wet work and overhead work have been completed.
B. Prior to starting installations, allow materials to reach ambient room temperature and humidity intended to be maintained for occupancy.
C. Care must be taken to prevent physical damage (i.e. scratching, denting, etc...) to materials.
D. Product must not be exposed to water at any time.
E. Building areas to receive ceilings shall be free of construction dust and debris.

3.2 Examination:

A. Examine substrates and structural framing to which baffle panel system attaches or abut, for compliance with requriements that affect installation and anchorage, and other conditions affecting performance.

B. Proceed with installation only after any unsatisfactory conditions have been corrected.

3.3 Preparation:

A. Coordination: Furnish layouts for cast-in-place anchors, clips, and other ceiling anchors whose installion is required of other trades.

B. Survey substrate to assure squareness and proper elevaton installation.

3.4 Installation:

A. General: Install SOFFIT - "Silentium" Ceiling Baffle System per manufacturers shop drawings provided, per manufacturers's written instructions, to comply with publications referenced below and any governing building codes / inspectors' requirements.
   1. CISCA "Ceiling Systems Handbook"
   2. Standard for Ceiling Suspension System Installations - ASTM C 636.
   3. Standard for Ceiling Suspension Systems Requiring Seismic Restraint - ASTM E 580
   4. IBC (International Buidling Code) standard for Seismic Zone for local area.

3.5 Adjust and Clean

A. Adjust components to provide uniform tolerances.

B. Vacuum and clean exposed surfaces with non-solvent, non-abrasive commerical type cleaner that is safe for system finish, as required.

C. Replace damaged and broken panels.

SECTION 09515 - CEMENTITIOUS WOOD FIBER ACOUSTICAL PANELS (TECTUM)

1.1 General: Provide Cementitious Wood Fiber Acoustical Panels as shown and specified.

A. Related Sections:
   1. 09510 Suspended Lay-In Ceiling Systems: Tee grid suspension system.
   2. 09900 Paints and Coatings: Acoustical Panel Paint Finish

2.1 Materials:

A. Acoustical Panels: Equal to Tectum, Cementitious wood fiber acoustical panels.Tectum Inc. (888) 977-9691, internet: www.tectum.com

B. Panel Size: Nominally 1 inch thick, see plan for panel sizes.

C. Factory Finishes:
   1. Natural (no finish).
   2. Factory Painted Natural (where panels are indicated to be field painted).
   3. Factory Painted White.

D. Insulation: Fiberglas Sound Batts, 3 1/2 inches thick per plan.

E. Screws: Use pre-finished, natural-colored drywall screws or field paint screw heads when installing natural (un-finished) acoustical panels.

F. Accessories: Natural touch-up paint by panel manufacturer.

G. Suspension System: Provide where indicated. Provide Armstrong 'Axiom' 6" classic trim (AX6STR) white, suspend with 12 ga. wire hangers hung at 48" O.C. max.

3.1 Installation

A. Attach acoustical panels to substrates as follows:
   1. Wood Joists or Trusses: Attach acoustical panels directly to wood framing members, where indicated, with 2 1/4 inches minimum length drywall screws spaced at 12 inches O.C. maximum across width of panels in rows no more than 24" O.C. Install additional wood framing and/or blocking as necessary to ensure that framing members for panel attachment are spaced no more than 24 inches apart. Do not attach acoustical panels directly to wood roof sheathing to avoid roofing membrane puncture.
   2. Steel Roof Deck: Attach acoustical panels directly to steel roof deck bottom flute, where indicated, with 1 3/4 inch minimum length self-tapping drywall screws spaced at 12 inches O.C. maximum across width of panels in rows no more than 24" O.C. Install sheet metal straps directly to bottom of steel deck where necessary to form an attachment surface along panel edges.
   3. Ceiling Suspension System: Attach acoustical panels to lay-in ceiling suspension systems, where indicated, with 1 3/4 inch minimum length self-tapping drywall screws spaced at 12 inches O.C. maximum across width of panels in rows no more than 24" O.C.

B. Install panels as indicated per plan.

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.

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Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

Drawn: EYW
Checked: DG

Project No.
CMG 5494

Contents:
ARCHITECTURAL SPECIFICATIONS

G014

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

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 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.

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

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

Shop Preparation: Scuff sand between coats.

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

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

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

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

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

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

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

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

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.

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

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior (Roof Mounted) Gas Piping	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Yellow	Semi-Gloss	N/A
Exterior and Interior Gas Piping, Where Exposed	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	Match surrounding finishes/verify with architect	Semi-Gloss	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A
Interior Doors, Door Frames, Rails and Rail Frames, Where Specified	PPG Breakthrough 50 Acrylic Satin	PPG V52-90 Black	Satin	D1
Interior Ferrous Metals, Where Specified	PPG Breakthrough 250 Acrylic Eggshell V50-410 Series	PPG 1013-5 "Victorian Pewter"	Eggshell	N/A
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Semi-Gloss	P4
Dining Room and Hallway Gyp. Bd.	PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan	PPG 1001-3 "Thin Ice"	Eggshell	P3
Dining Room and Hallway Gyp. Bd. Ceiling	PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-411OXI 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

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 EXTINGUISHERS

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

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

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CHIPOTLE MEXICAN GRILL

CHIPOTLE MEXICAN GRILL, INC.
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STORE NO.: 5494
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168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

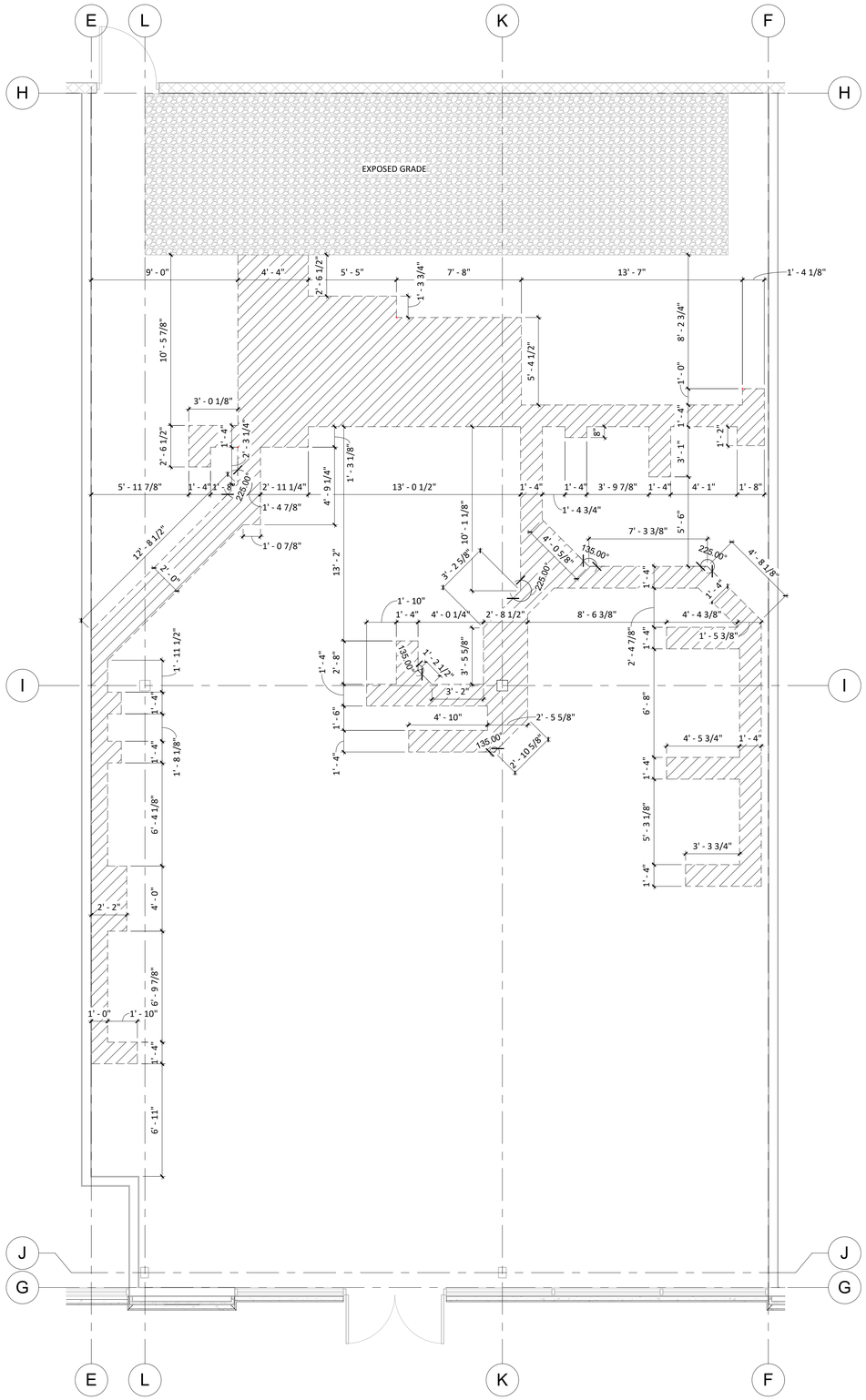
Revisions:

Drawn: EYW
Checked: DG

Project No.
CMG 5494

Contents:
ARCHITECTURAL SPECIFICATIONS

G015



1 / D100 **DEMOLITION SLAB PLAN**

1/4" = 1'-0"

GENERAL DEMOLITION NOTES

1.	DEMOLISHED MATERIALS SHALL BECOME THE GENERAL CONTRACTOR'S PROPERTY AND SHALL BE REMOVED FROM THE SITE WITH FURTHER DISPOSITION AND RECYCLED BY THE GENERAL CONTRACTOR'S OPTION, UNLESS NOTED OTHERWISE.
2.	SURVEY THE CONDITION OF THE BUILDING TO DETERMINE WHETHER REMOVING ANY ELEMENT MIGHT RESULT IN STRUCTURAL DEFIICIENCY OR UNPLANNED COLLAPSE OF ANY PORTION OF THE STRUCTURE OR ADJACENT STRUCTURES DURING SELECTIVE DEMOLITION.
3.	PERFORM SURVEYS AS THE WORK PROGRESSES TO DETECT HAZARDS RESULTING FROM SELECTIVE DEMOLITION ACTIVITIES.
4.	MAINTAIN EXISTING UTILITIES TO REMAIN IN SERVICE AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
5.	CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS TO ENSURE MINIMAL INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED AND USED FACILITIES. REMOVE & TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS. PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. PROMPTLY DISPOSE OF DEMOLISHED AMTERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON SITE.
6.	PROVIDE TEMPORARY WEATHER PROTECTION, DURING INTERVAL BETWEEN DEMOLITION, REMOVAL OF EXISTING EXTERIOR CONSTRUCTION AND NEW CONSTRUCTION TO ENSURE THAT NO WATER DAMAGE OCCURS TO STRUCTURE OR INTERIOR AREAS.
7.	TOTAL SCOPE OF DEMOLITION MAY NOT BE COVERED ON THIS SHEET. REVIEW ALL SHEETS IN THIS DRAWING SET TO DETERMINE TOTAL SCOPE OF DEMOLITION.
8.	REMOVE & TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
9.	TRANSPORT DEMOLISHED MATERIALS OFF OWNER'S PROPERTY AND LEGALLY DISPOSE OF THEM.
10.	CLEAN ALL HORIZONTAL SURFACES OF ACCUMULATED DUST AND DEBRIS.
11.	ALL DEMOLITION ITEMS ON THIS SHEET TO BE PERFORMED BY CHIPOTLE'S GENERAL CONTRACTOR, UNLESS NOTED OTHERWISE.
12.	COORDINATE ALL DEMOLITION ACTIVTY WITH BUILDING OWNER'S REPRESETATIVE. SOME DEMOLITION ACTIVIITES MAY BE REQUIRED TO BE PERFORMED ON PREMIUM TIME.
13.	CONTRACTOR SHALL TAKE ADEQUATE PRECAUTIONS TO PROTECT ALL ADJACENT AND REMAINING BUIDLING COMPONENTS.
14.	EXISTING FOUNDATIONS TO BE PROTECTED AND UNDISTURBED. UNLESS OTHERWISE NOTED.
15.	ALL SALVAGED ITEMS, INCLUDING BUT NOT LIMITED TO LINES, ELECTRICAL PANELS, MAIN COPPER CONDUIT, ETC. SHALL BE CAREFULLY DISASSEMBLED/DISCONNECTED AND STORED IN A SECURE LOCATION FOR POSSIBLE REUSE.
16.	IDENTIFIED SELECTIVE DEMOLITION IS FOR REFERENCE ONLY. ADDITIONAL DEMOLITION MAY BE REQUIRED TO ACCOMMODATE NEW LAYOUT; REFER TO NEW WORK PLANS AND ELEVATIONS. ALL DIMENSIONS SHOWN SHOULD BE VERIFIED IN THE FIELD.
17.	MAINTAIN EXISTING SPRAY-ON FIREPROOFING OF EXISTING STRUCTURE AND FIRE RATED ASSEMBLIES. ANY COMPROMISE OF EXISTING FIRE RATING SHALL BE PATCHED AND REPAIRED TO ORIGINAL CONDITION.
18.	ANY EXISTING FINISHED SURFACES TO REMAIN THAT ARE AFFECTED BY SELECTIVE DEMOLITION SHALL BE PATCHED TO MATCH EXISITNG ADJACENT SURFACES UNLESS CONCEALED BY NEW CONSTRUCTION.
19.	UTILITIES ABANDONED SHALL BE REMOVED AND CAPPED BEHIND FINISHED SURFACES.
20.	IN SHARED SPACES WITH OTHER TENANTS, SEAL ALL INTAKE AND EXHAUST AIR PRIOR TO DEMOLITION.
21.	ALL EXISTING EXTERIOR DOORS, FRAMES AND STOREFRONT TO REMAIN, UNLESS OTHERWISE NOTED.

GENERAL PLAN NOTES

1.	UPON REMOVAL OF ALL EXISITNG FLOOR FINISHES SURVEY EXISTING SLAB AND PROVIDE PATCHING AND/OR FIRESTROPPING AS REQUIRED FOR PROPER SEAL AND AS REQUIRED BY CODE.
2.	UPON REMOVAL OF ALL EXISTING CEILING FINISHES, SOFFITS, ETC. SURVEY EXISING DECK FOR PENETRATIONS AND PATCH AND/OR FIRESTOP FOR PROPER SEAL AND AS REQUIRED BY CODE.
3.	GENERAL CONTRACTOR TO SCOPE EXISTING SANITARY LINES PRIOR TO PREPARING FOR NEW CONNECTIONS.

DEMOLITION LEGEND

EXISTING CONSTRUCTION TO REMAIN	
EXISTING CONSTRUCTION TO BE DEMOLISHED	– – – – – – – – – – – – – – – –

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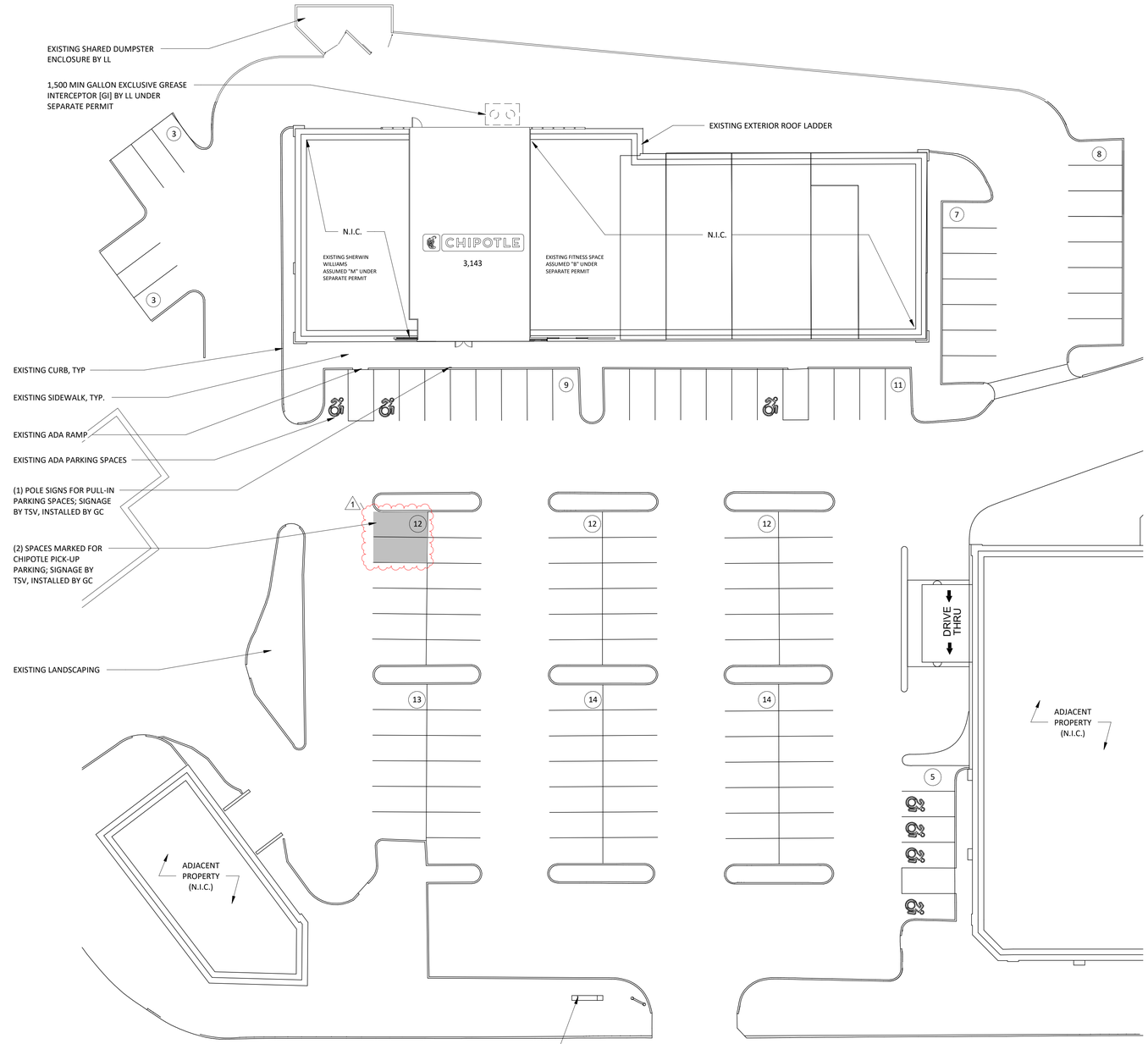
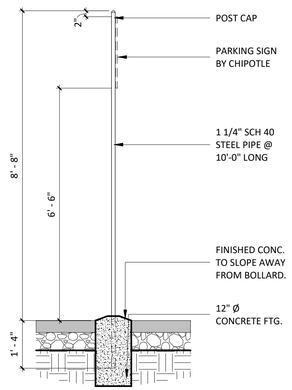
DEMOLITION SLAB PLAN

D100

GENERAL NOTES

1. STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL: STENCILS@PAVEMENTSTENCIL.COM
2. NOTE: ARCHITECTURAL SITE PLAN IS FOR REFERENCE ONLY. GC TO BUILD FROM CIVIL DRAWINGS. IF THERE IS A DISCREPANCY BETWEEN ARCHITECTURE AND CIVIL, CONTACT ARCHITECT IMMEDIATELY.
3. ACCESSIBLE ROUTE SHALL BE 5% MAX RUNNING SLOPE W/2% MAX CROSS SLOPE PER ADAAG 403.3
4. ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING AND DUMPSTER ENCLOSURE ARE EXISTING U.N.O.





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

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

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Contents:
ARCHITECTURAL SITE PLAN

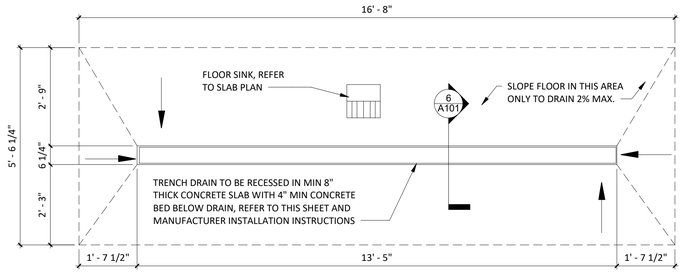
SP100

GENERAL NOTES

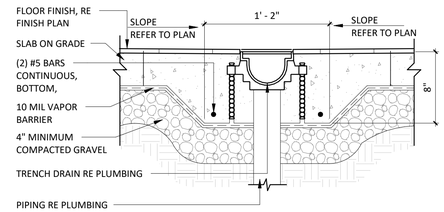
1.	VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.	ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3.	ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS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

PLUMBING LEGEND

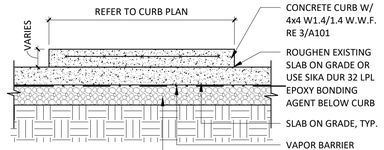
	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN



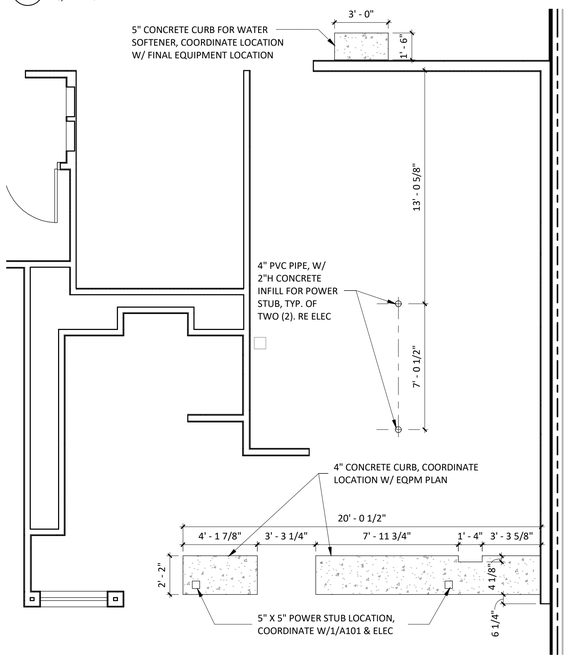
5 A101 **TRENCH DRAIN PLAN DETAIL**
1/2" = 1'-0"



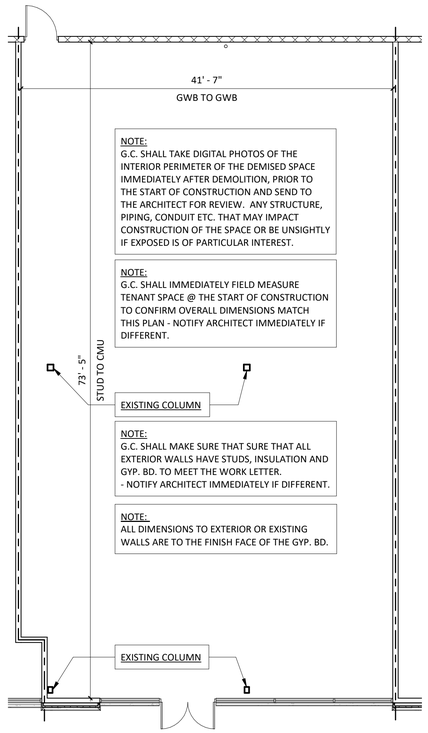
6 A101 **TRENCH DRAIN DETAIL**
1 1/2" = 1'-0"



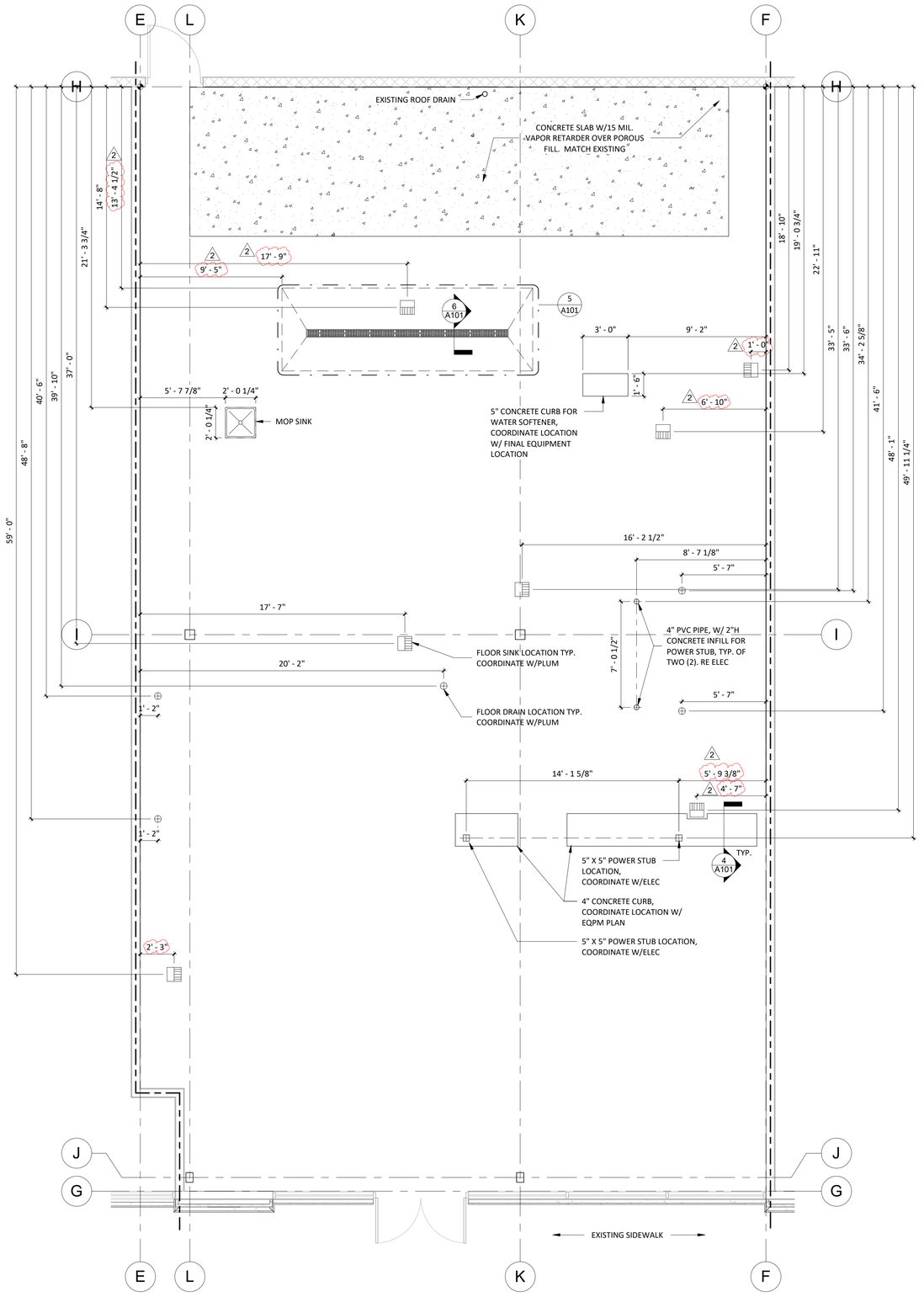
4 A101 **CONCRETE CURB DETAIL**
3/4" = 1'-0"



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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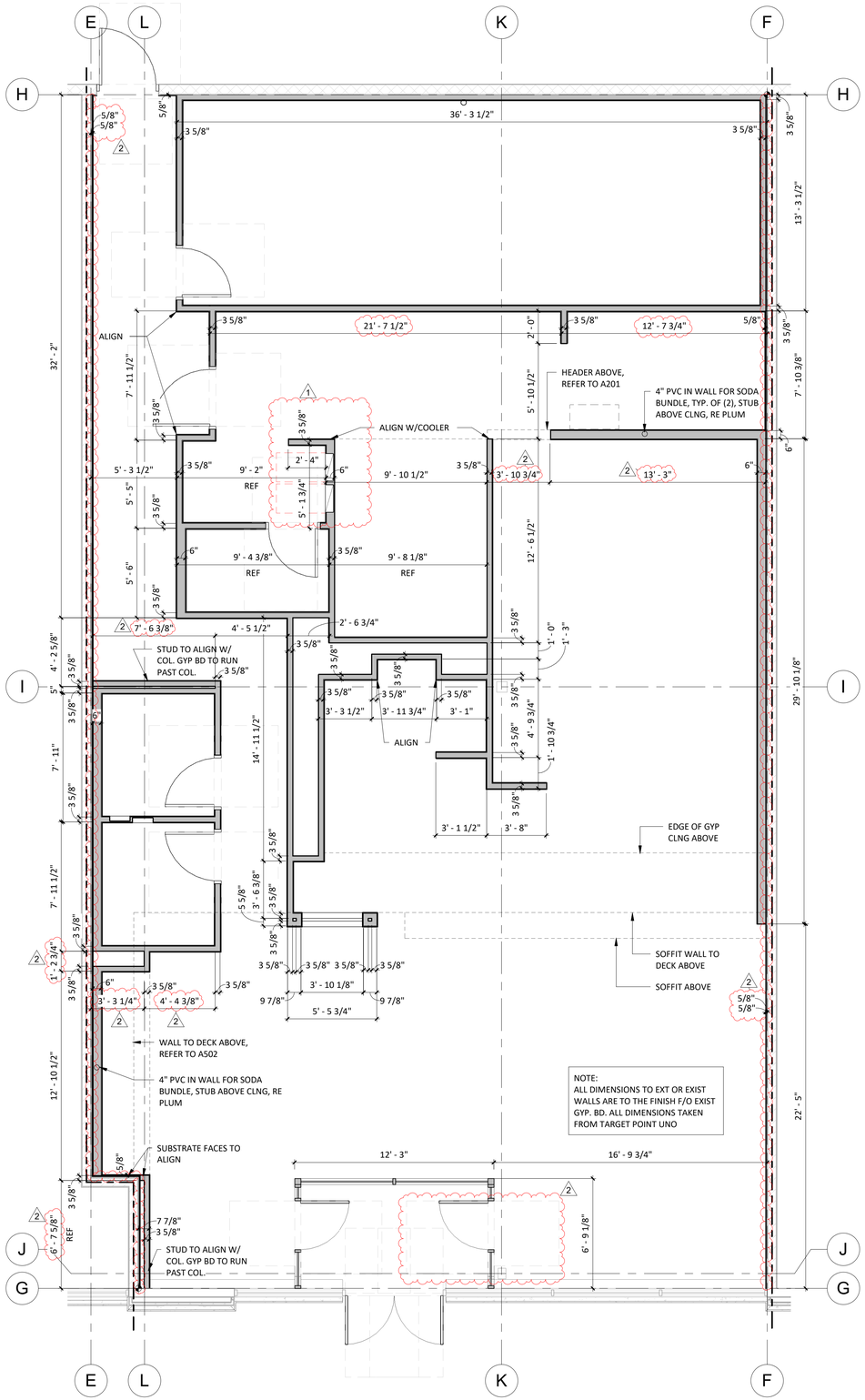
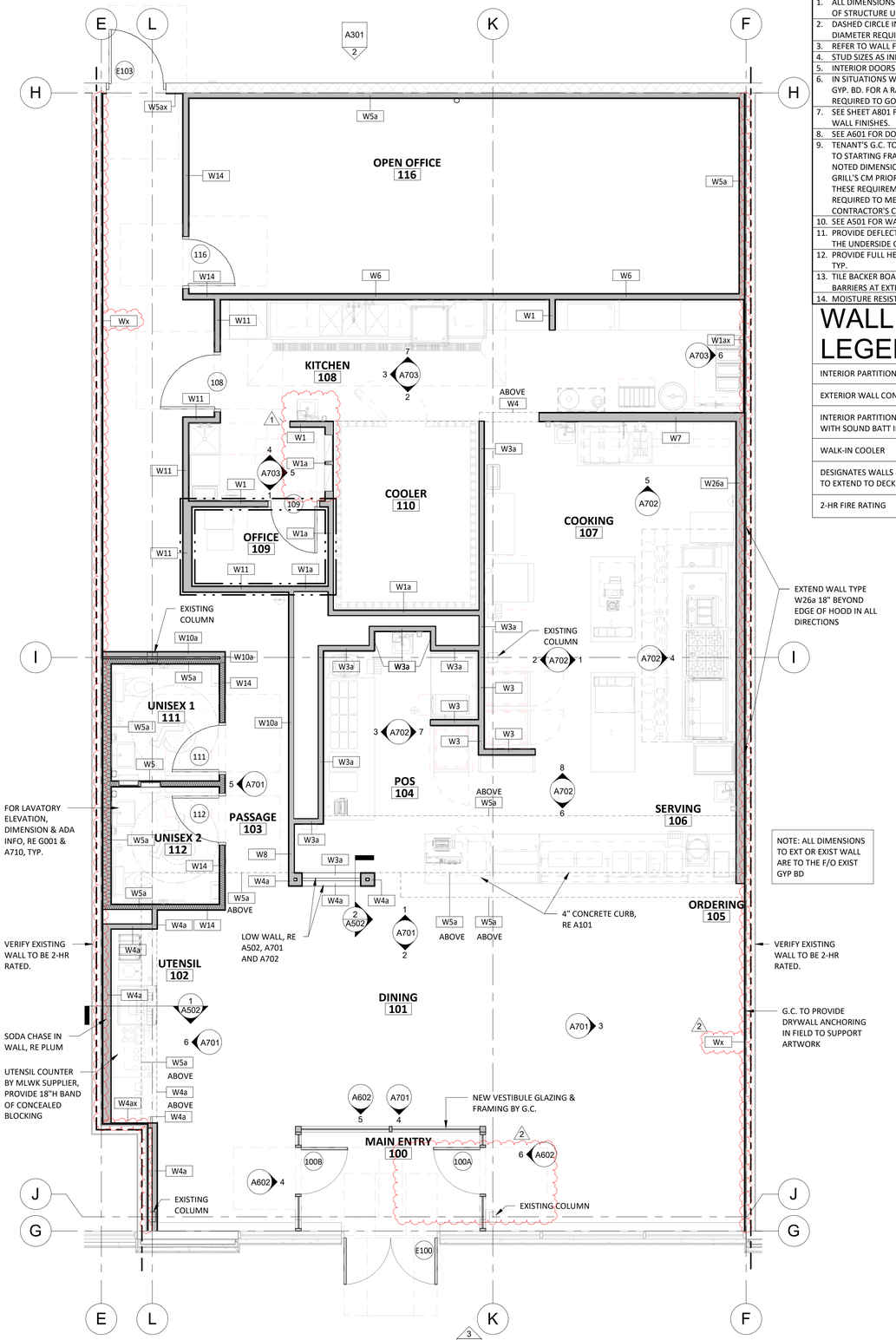
Contents: SLAB WORK PLAN

A101



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



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

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 PARTITIONS 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. TILE BACKER BOARD SHALL NOT BE INSTALLED OVER VAPOR BARRIERS AT EXTERIOR WALLS.
14. MOISTURE RESISTANT GYP. BD. SHALL BE USED IN RESTROOMS.

WALL TYPE LEGEND

INTERIOR PARTITION CONSTRUCTION	
EXTERIOR WALL CONSTRUCTION	
INTERIOR PARTITION CONSTRUCTION WITH SOUND BATT INSULATION	
WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	
2-HR FIRE RATING	

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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.
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK WITH FRP ABOVE. 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 1/802. G.C. TO COORDINATE EXTENT OF QUARRY TILE WITH KES PRIOR TO INSTALLATION.
10	FRP CLOSURE AT COOLER AIR GAP, REFER TO 14/A801
11	NOT USED
12	OUTSIDE CORNER GUARD BY TMS, REFER TO 13/A801
13	ALIGN LOW EDGE OF RENO RAMP WITH FRONT EDGE OF EQUIPMENT CURB AND FACE OF ADJACENT WALL BASE FINISH.
14	NOT USED
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 9/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF CERAMIC TILE, ALIGN TILE WITH EDGE OF DOOR THRESHOLD

GENERAL NOTES

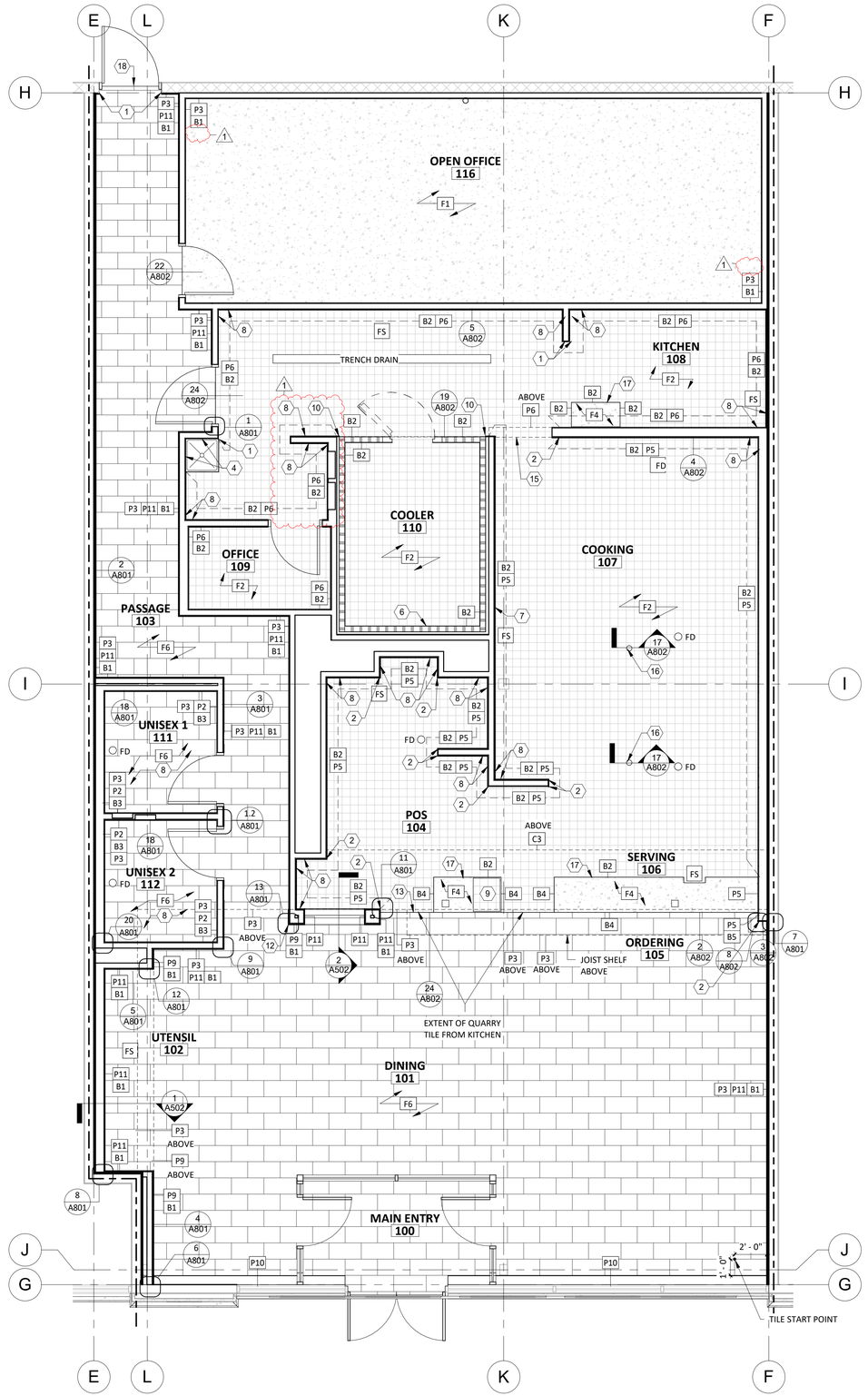
1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES).

INTERIOR FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE				
F6	CERAMIC TILE			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 EXISTING				
				P11	STONEWOOD WALL PANEL				
				P12	PREFINISHED BRAKE METAL EXISTING				

ROOM FINISH SCHEDULE

ROOM #	ROOM NAME	FLOOR FINISH	BASE FINISH	WALL FINISH	CEILING FINISH	CEILING HEIGHT	REMARKS
100	MAIN ENTRY	F6	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING	F6	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F6	B1		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F6	B1	REFER TO PLAN FOR WALL FINISHES	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	F6	B1/B4/B5		C1/C3	STR / ±9-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	±9'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	10'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
109	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	F2	B2		STR	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
111	UNISEX 1	F6	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	UNISEX 2	F6	B3		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
116	OPEN OFFICE	F1	B1		C4	10'-0"	



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

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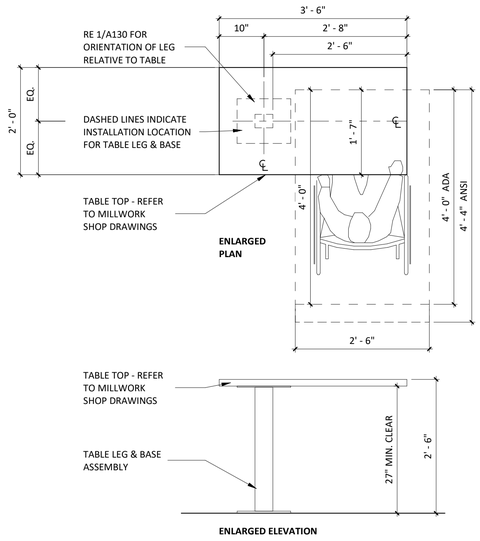
CMG 5494

Contents:
FINISH PLAN

A120

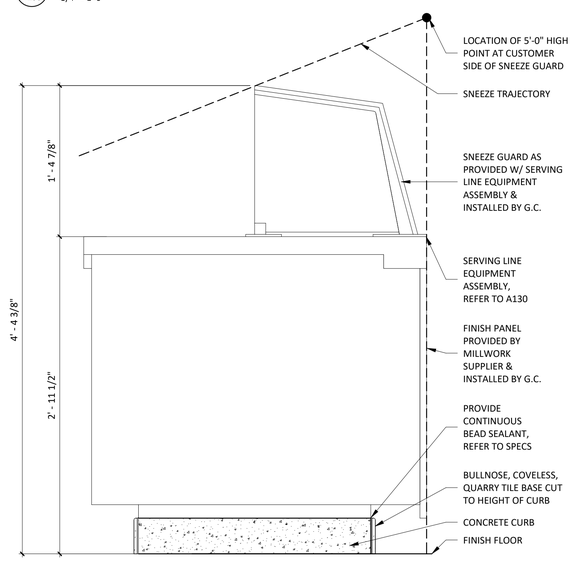
GENERAL NOTES

1.	RE 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



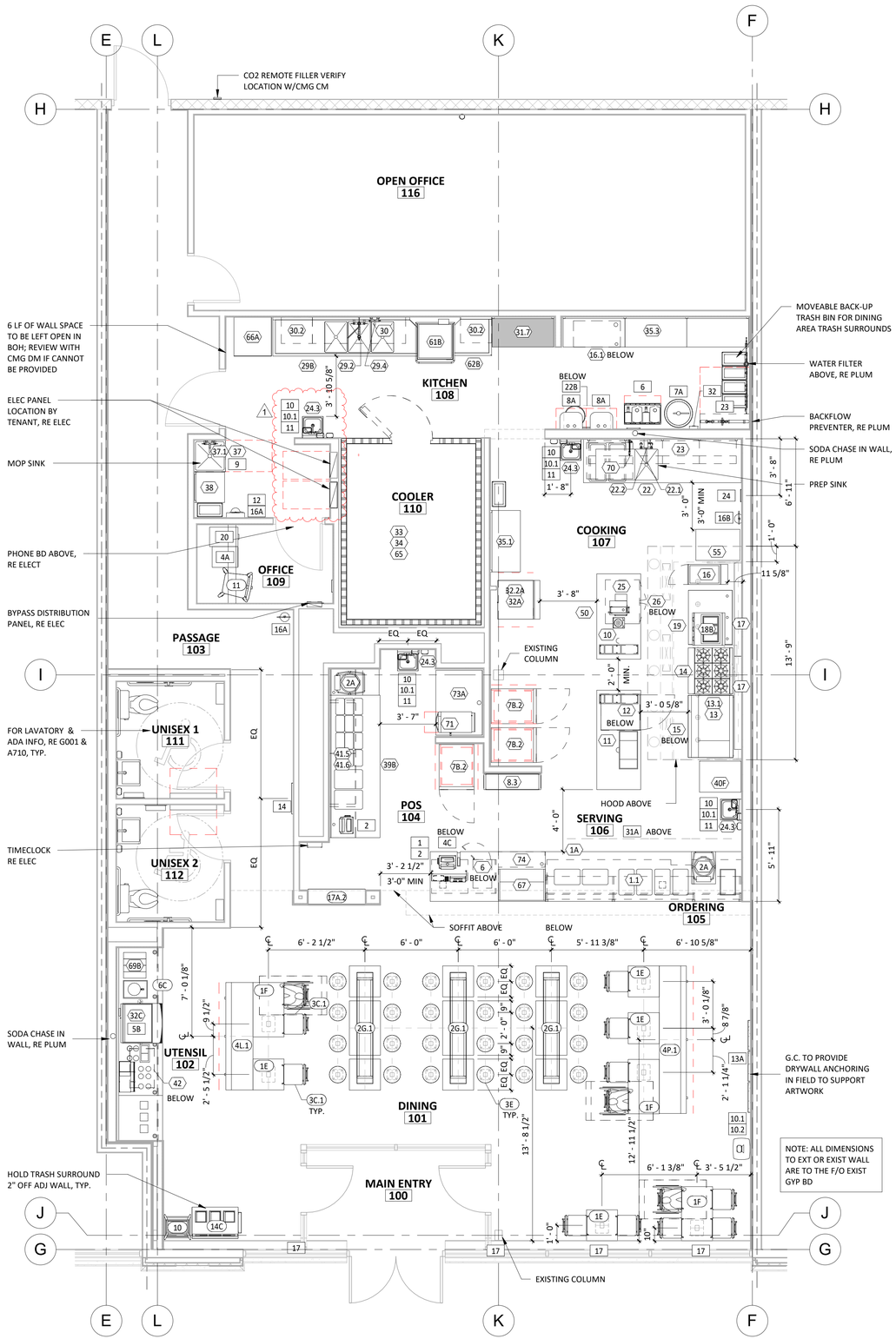
3 / A130 **DETAIL @ ACCESSIBLE TABLE**

3/4" = 1'-0"



2 / A130 **DETAIL @ SERVE LINE SNEEZE GUARD**

1 1/2" = 1'-0"



1 / A130 **FURNITURE, FIXTURE & EQUIPMENT PLAN**

1/4" = 1'-0"

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FF&E PLAN

A130

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	3	KES	KES	●				
8.3	M4.5 Chip Shelf	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Left	Delfield	77x34in Carving Station - LT	1	KES	KES	●				
12	Undercounter Refrigerator	Hoshizaki	CRMR27-LP	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 - RH	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-GRC-60	1	KES	GC	●	●			Final Connection by GC. RE:Mechanical Drawings
19	Rice Cooker Stand - Left	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.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	4 /1\	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-1220-8-8-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1B	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	Varies	Bev 190	2	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Varies	CFS440-HT	2	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.
33	Walk In Cooler 9x12x9ft 6in - Standard	Manitowoc/Norlake	CHP912SR-RS	1	WCS	GC	●			●	Refer To Plumbing and Mechanical Drawings; Refrigeration By Tenant; Remote Exterior Compressor Unit To Be Secured To Roof Per Code By GC
34	Walk-In Cooler Shelving System - 9x12x9	Cambro (Camshelving)	CHP912ER	1	KES	KES					
35.1	Dry Storage Racks 23x48x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
35.3	Dry Storage Racks 23x144x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standards At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
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
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
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	Metro	Custom	1	KES	KES					

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Contents:
EQUIPMENT SCHEDULE

A131

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	4	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	3	TMS	GC					See Detail On A130
2G.1	M4.0 - Bar Height Table 8-Top, With Footrest	3	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	13	TMS	GC					
3E	M4.0 - Bar Stool - Fixed	24	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4L.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
4P.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				●	Bins and Sign Hooks Provided by Tundra in Smallwares Package, Install Hooks on Back of Doors
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
4A	B-Rate (Standard Safe)	1	TS	GC					Installed in Office
4C	Smart Safe	1	TSS	TSS	●				To Be Installed On Curb Under Serveline, Bolt to Curb Under Serveline POS
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
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		●	●	●	Drain Water Heater To Floor Drain, RE: Mech.
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	4	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
22B	Water Softener On Curb	1	KES	GC			●	●	See MEP Sheets For Details
23	Backflow Preventer	1					●	●	See MEP Sheets for Details
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

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Contents:
EQUIP. & FURNITURE SCHEDULE

A132

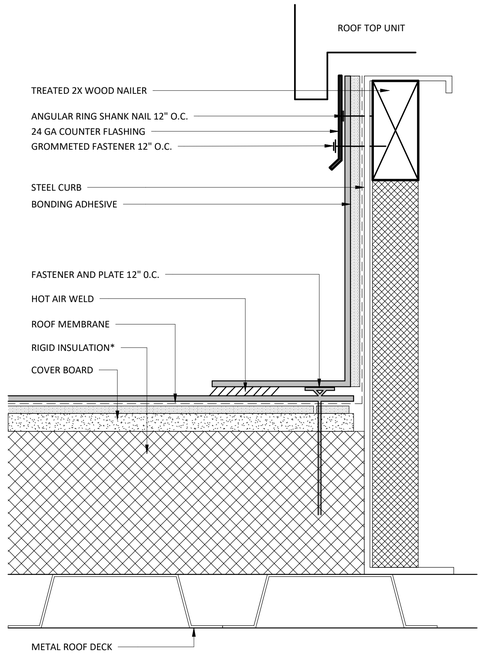
HVAC EQUIPMENT

NOTE: UTILITIES BY GC, RE MECH

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

GENERAL NOTES

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

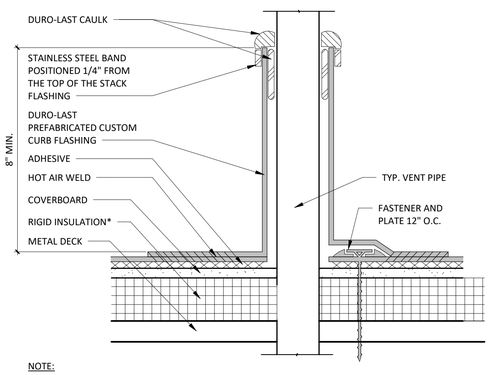


NOTES:

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

3 / A140 CURB FLASHING

6" = 1'-0"



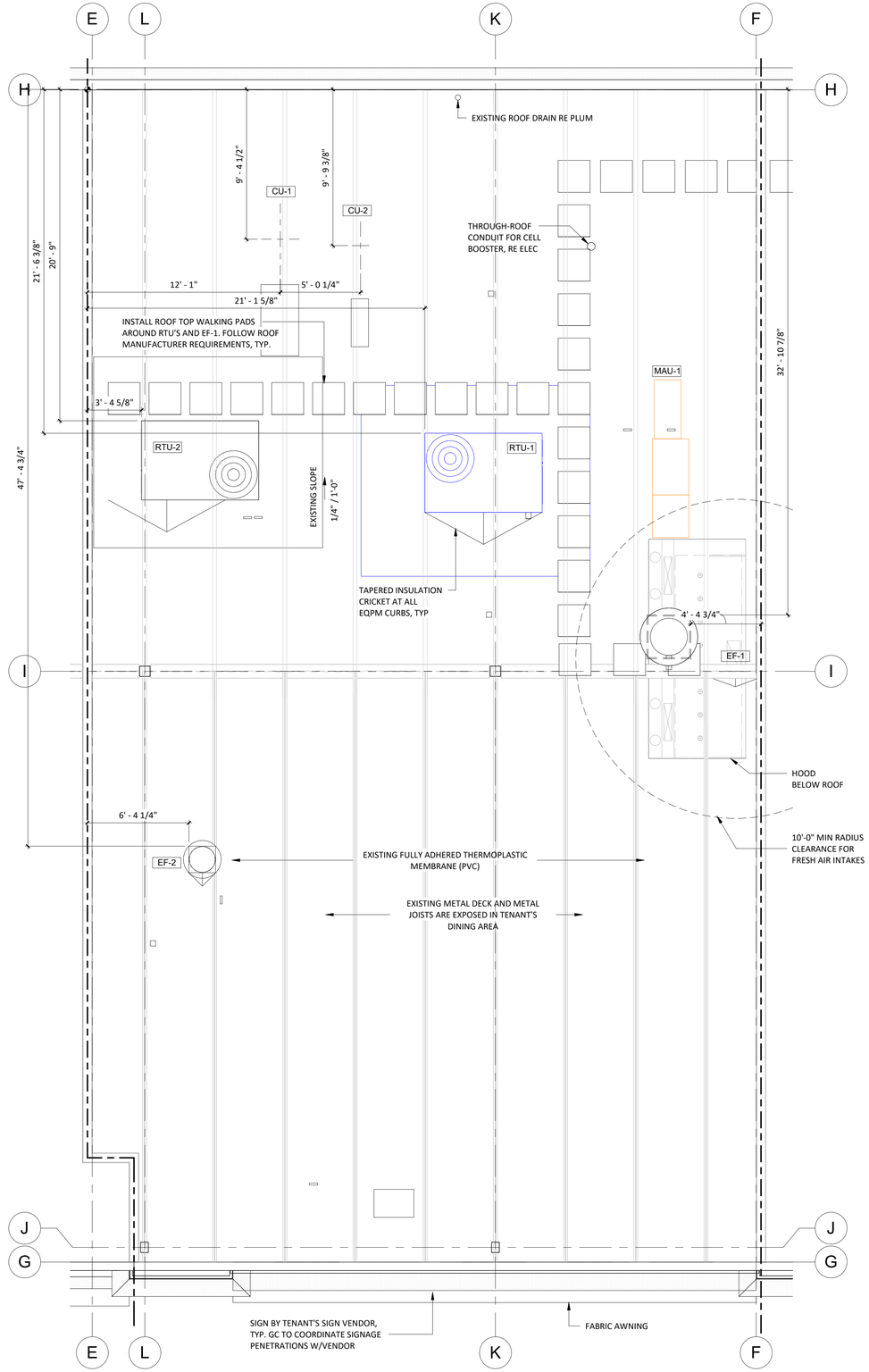
NOTE:

1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH. EPDM TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING EPDM LAP CEMENT.
5. IF A LEAD FLASHING IS PRESENT ON THE PIPE, IT MUST BE REMOVED BEFORE A DURO-LAST STACK FLASHING IS INSTALLED.
6. MEMBRANE ATTACHMENT AROUND THE PENETRATION WILL BE THE SAME AS THE DECK MEMBRANE, MAX 18" O.C. AND A MINIMUM OF ONE PLATE/FASTENER PER FLASHING.

*R-VALUE AND THICKNESS TO BE LISTED IN THE SPECIFICATIONS AND/OR BUILDING/WALL SECTIONS.

2 / A140 BOOT DETAIL

1/2" = 1'-0"



1 / A140 ROOF PLAN

1/4" = 1'-0"

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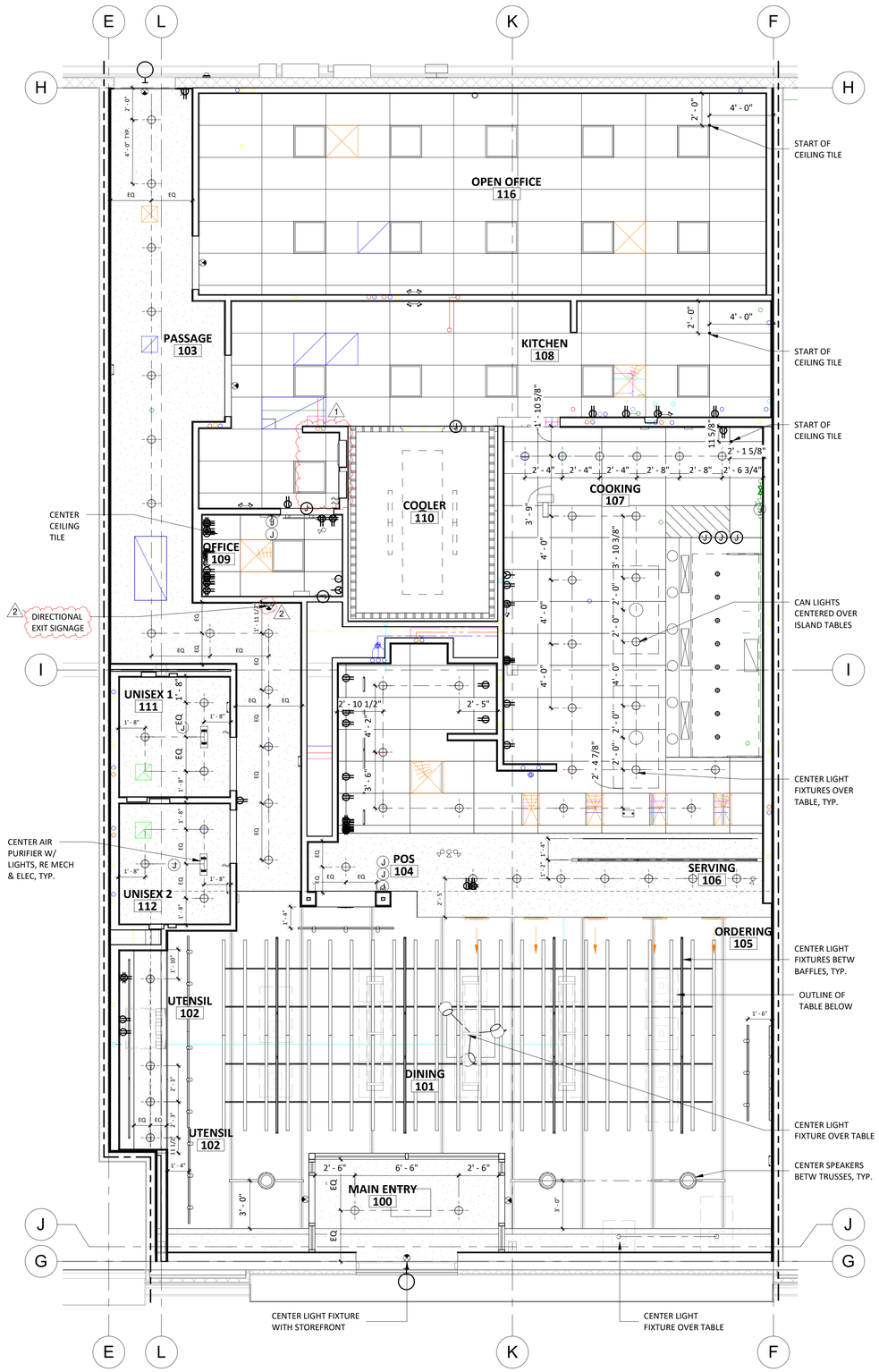
Contents:
ARCHITECTURAL ROOF PLAN

A140



1 A200 **DIMENSIONED REFLECTED CEILING PLAN**

1/4" = 1'-0"

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.	ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
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

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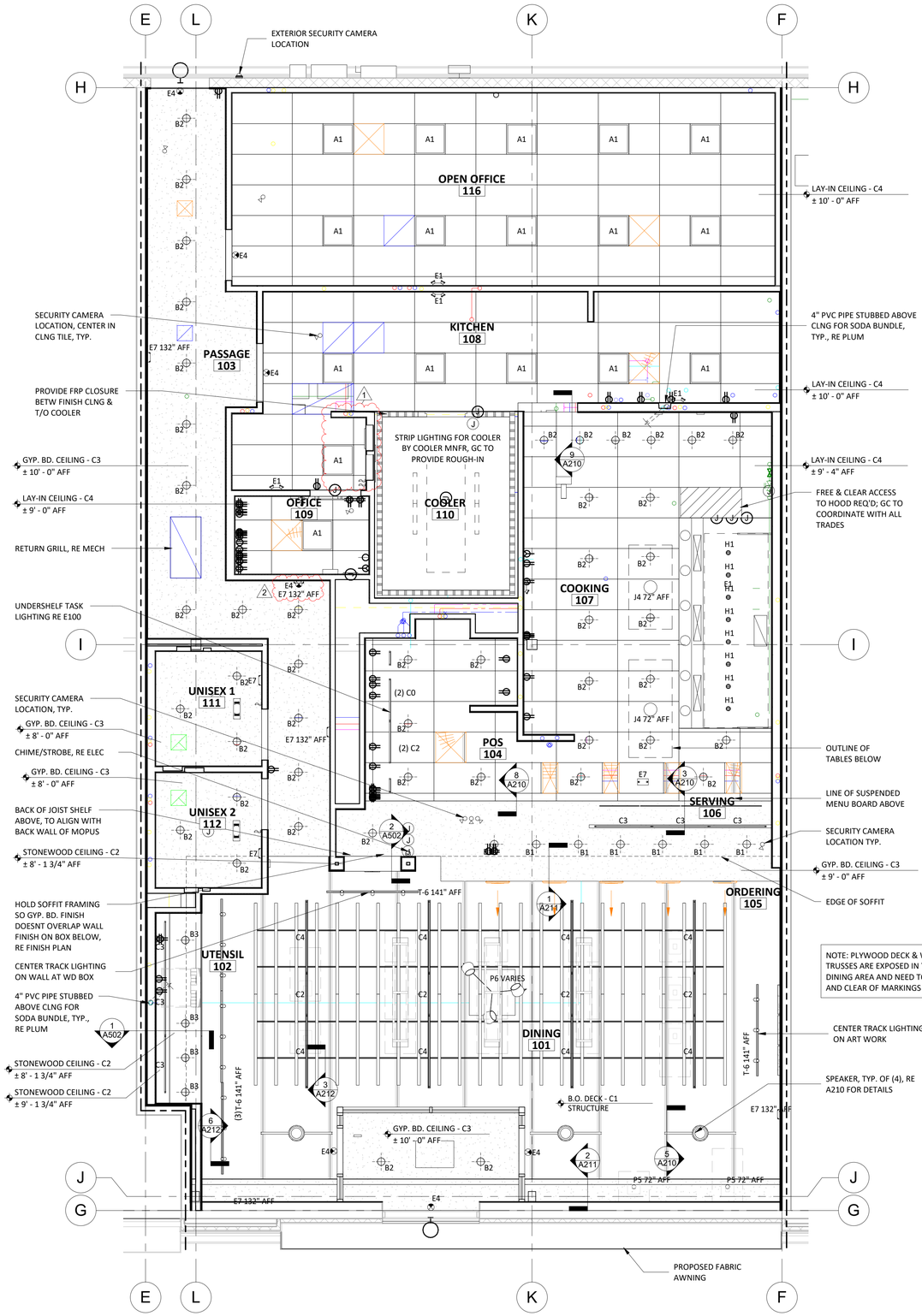
Contents:

REFLECTED CEILING PLAN DIMENSIONED

A200



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

LIGHT FIXTURE SCHEDULE

ITEM #	MOUNT	DESCRIPTION
A1	LAY-IN	2x2 LENSED TROFFER
B1	CEILING	RECESSED 6IN CAN LIGHT
B2	CEILING	RECESSED 6IN CAN LIGHT
B3	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)
C0	SURFACE	LOW PROFILE LED 1FT
C2	SURFACE	LOW PROFILE LED 3FT
C3	SURFACE	LOW PROFILE LED 4FT
C4	SURFACE	LOW PROFILE LED 5FT
E1	VARIOUS	EMERGENCY LIGHT - DUAL HEAD
E4	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS
E7	VARIOUS	EMERGENCY LIGHT - DUAL HEAD
H1	SURFACE	VAPOR PROOF HOOD LIGHT
J4	PENDANT	M4.0 - PENDANT LIGHT
P5	PENDANT	M4.0 - PENDANT LIGHT
P6	PENDANT	M4.0 - MULTI-PENDANT LIGHT
T1	TRACK	TRACK LIGHTING HEAD
T-6	SUSPENDED	M4.0 - TRACK 6'

SECURITY SYSTEM

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	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	1	SSS	SSS	INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	8	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	3	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

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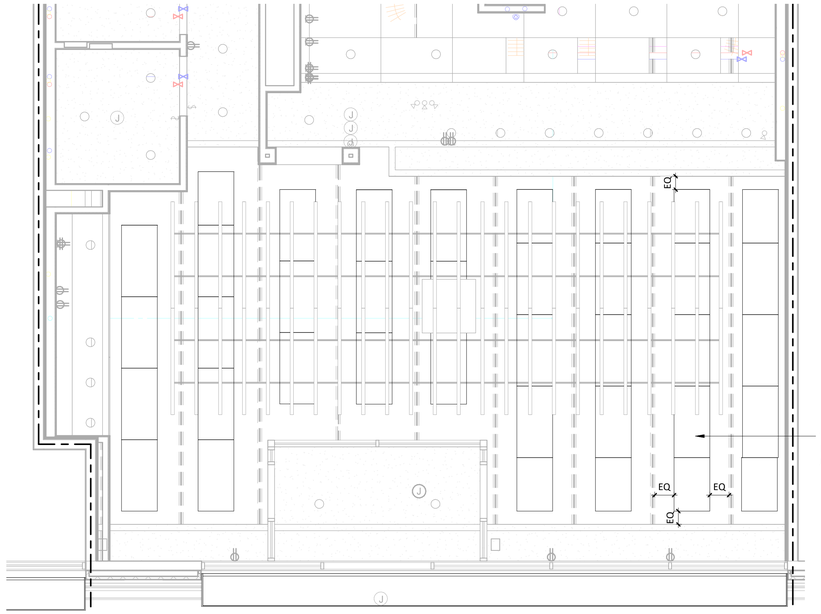
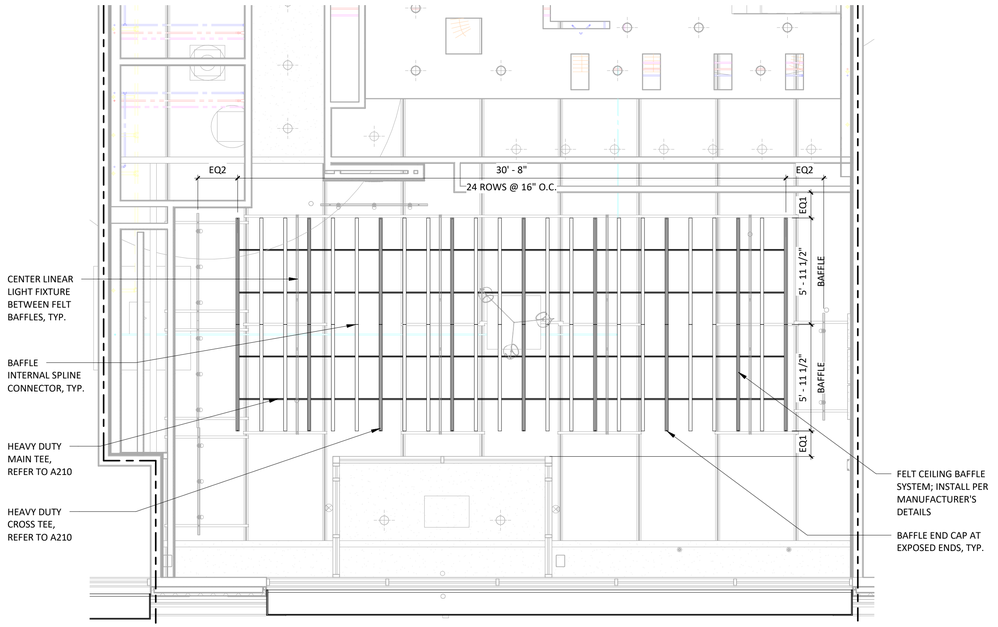
A201

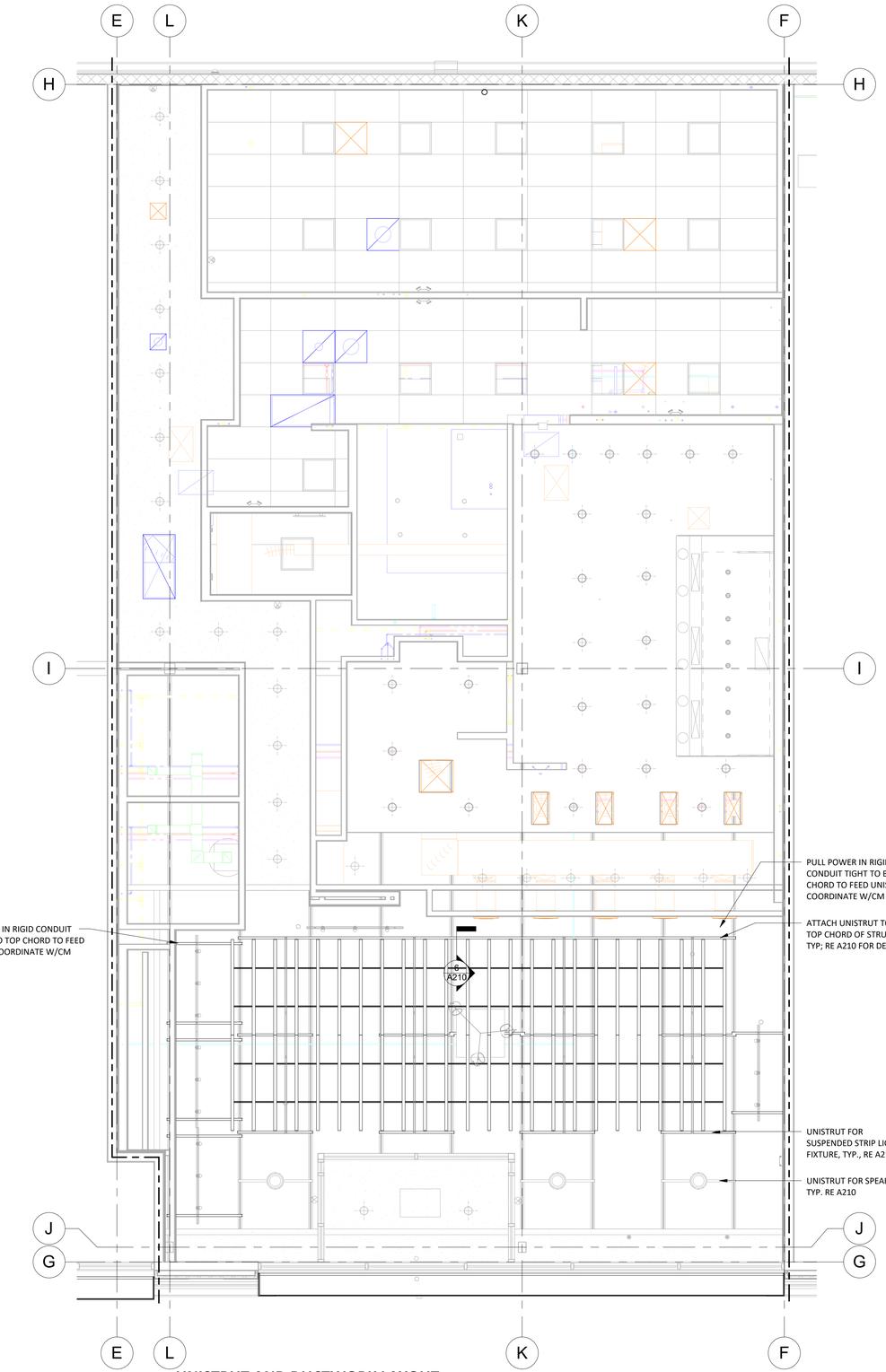
QTY.	THICKNESS	WIDTH	LENGTH	EDGE	FINISH
9	1"	24"	36"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter
29	1"	24"	48"	BEVELED (ON ABUTTING EDGES ONLY)	Paint - Victorian Pewter



3 A202 **TECTUM PLAN**
1/4" = 1'-0"



2 A202 **FELT BLADE PLAN**
1/4" = 1'-0"



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

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Drawn: EYW
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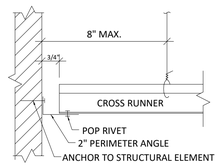
Project No.
CMG 5494

Contents:
REFLECTED CEILING & UNISTRUT PLAN

A202



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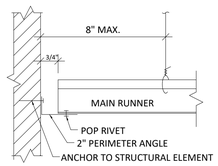

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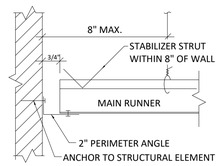
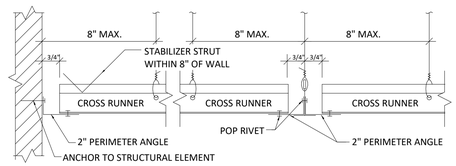


C-C



D-D

E-E @ ISOLATION JOINT

IN SEISMIC DESIGN CATEGORIES D, E, OR F, INSTALL DOWN COMPRESSION POST AND LATERAL BRACING AS OUTLINEDF-F @ 12' O.C. EA. WAY IN THE FIELD & 4' MAX. FROM WALL EDGES. MAX. LENGTHS TO RADIUS GYRATION RATIO NOT TO EXCEED 300. STRUTS TO BE TIGHT TO CEILING GRID & STRUCTURE ABOVE. LOCATE STRUTS ON MAIN RUNNERS

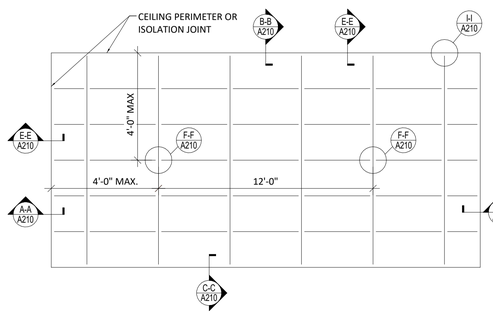
USG DONN COMPRESSION POST SIZE TABLE:
VSA 18/30 1'6" TO 2'6"
VSA 30/48 2'6" TO 4'0"
VSA 48/84 4'0" TO 7'0"
VSA 84/102 7'0" TO 8'6"

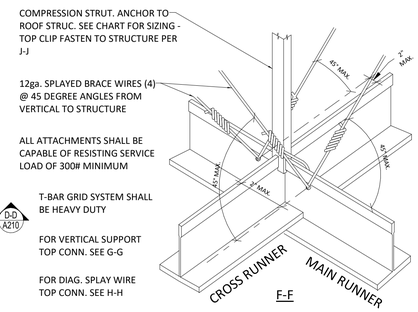
STRUT OPTION UP TO 6'-10" IN LENGTH:
362S125-54 STL. STUD, ANCHOR W/ (3) #8 SELF DRILLING SCREWS.

STRUT OPTION TO 9'-10" IN LENGTH:
1-1/2" DIAMETER EMT CONDUIT, 0.0659 WALL THICKNESS

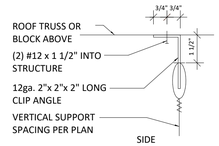
Suspended Ceiling General Notes
(Based on ASCE 7-10, Section 13.5.6.2.2)

1. Ceiling area greater than 144 square feet must have lateral force bracing. Ceiling that are surrounded by walls or soffits that are laterally braced to the structure above are exempt.
2. Main beams and cross tees must be supported within 8 inches of each wall with 12-gauge wire or approved wall support. Hanger and bracing wires for suspended ceiling systems shall be soft-annealed, galvanized, mild steel wires and in compliance with ASTM A641. Hanger and bracing wires shall be minimum 12-gauge for ceilings up to 4 psf.
3. A strut is to be attached to the suspension system and to the structure above at each bracing.
4. Rigid bracing may be used instead of diagonal splay wires. Rigid bracing must limit ceiling movement to less than Y.' at the point of attachment. (Splay wire bracing is clusters of four wires attached to the main beam within 2-inches of a cross tee intersection.) Horizontal restraint points are to be located no more than 12 feet on center in each direction, and the first point within 4-feet of each wall. Attachment of the bracing wires to the main beam and the structure should support the greater of 200 pounds or the actual design load with a safety factor of two. Deflection must be limited to 1/4" as approved by Section 13.5.6.
5. Heavy-duty grid system required. — opposite walls must have a 3/4" clearance.
6. Main runners and cross runners shall carry a mean ultimate test load of not less that 180lbs in compression and tension.
7. Minimum 2-inch wall molding required.
8. Grid must be attached to two adjacent walls
9. Ceilings over 2500 square feet must have seismic separation joints or full height partitions.
10. Ceilings without rigid bracing must have a 2-inch oversized trim ring for sprinklers and other penetrations.
11. Changes in the ceiling plane must have positive bracing.
12. Cable trays and electrical conduits must be independently supported and braced.
13. If partitions are attached to the suspending system, they must be laterally braced to the building structure.
14. Vertical hanger wires are to be.
    14.1. Not more than 4 feet on center
    14.2. Must plump within 1 in 6
    14.3. Tied with three turns in 3 inches
15. Pendant mounted fixtures must be supported from the structure. They may not use the ceiling suspension system for support.
16. Light fixtures must be positively attached to the suspended system. Attached device must be able to withstand 100% of the fixture weight. If light fixture is 56lbs or less, must have two 12-gauge wires attached at diagonal corners. If more than 56lbs, must be independently supported from the building structure.
17. Flexible sprinkler hose fittings, ceiling mounted air terminals or other services weighing less than 20lbs shall be positively attached to the ceiling suspension main runners or cross runners that have the same carrying capacity as the main runners. Units weighing more than 20lbs but less than 56lbs shall have, an two additional 12-gauge hanger wires connected from the terminal or service to the ceiling system hangers or to the structure above that act as safety wires. Units weighing more than 56lbs shall be supported directly from the structure above by approved hangers.

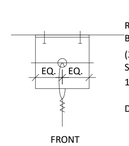




F-F

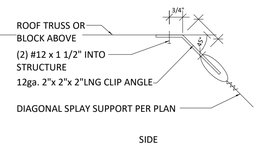


SIDE



FRONT

G-G



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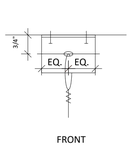
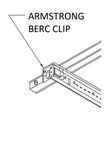
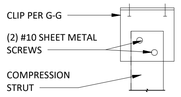


FRONT

H-H



I-I

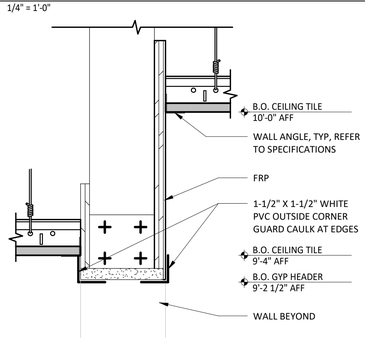


J-J

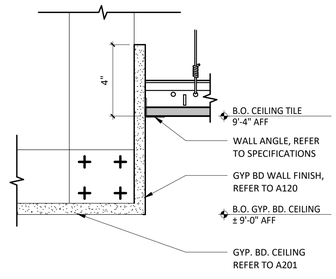
BLOCK DETAIL

Scale: N.T.S.

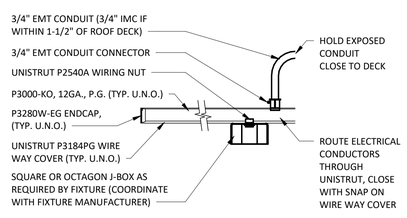
10 A210 **TYP. SUSPENDED LAYIN/ACT CEILING DETAIL**
1/4" = 1'-0"



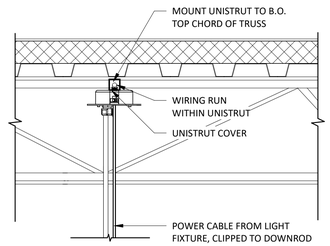
9 A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



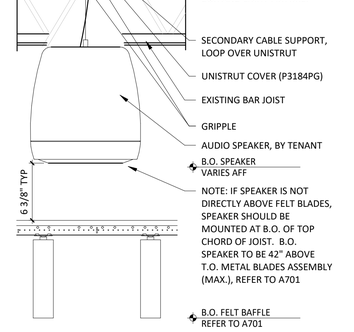
8 A210 **KITCHEN CEILING TRANSITION**
3" = 1'-0"



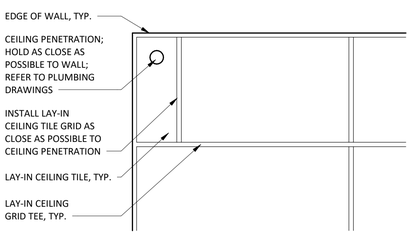
7 A210 **UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



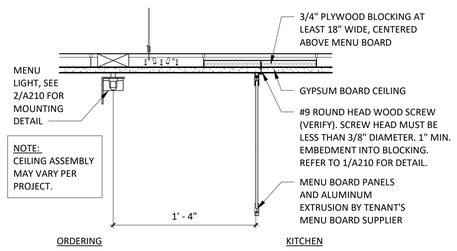
6 A210 **UNISTRUT DTL. METAL**
1 1/2" = 1'-0"



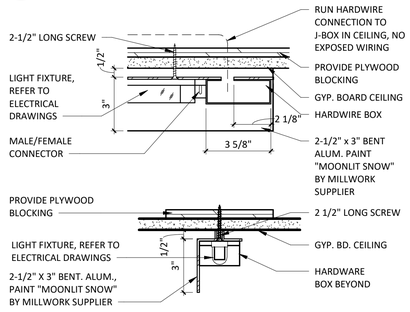
5 A210 **SUSPENDED SPEAKER DETAIL**
1 1/2" = 1'-0"



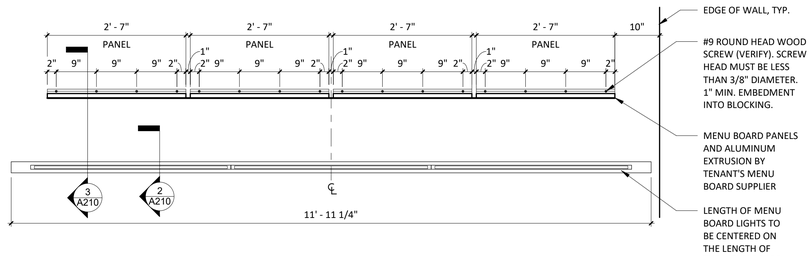
4 A210 **LAY-IN CEILING PENETRATION - PLAN DETAIL**
3/4" = 1'-0"



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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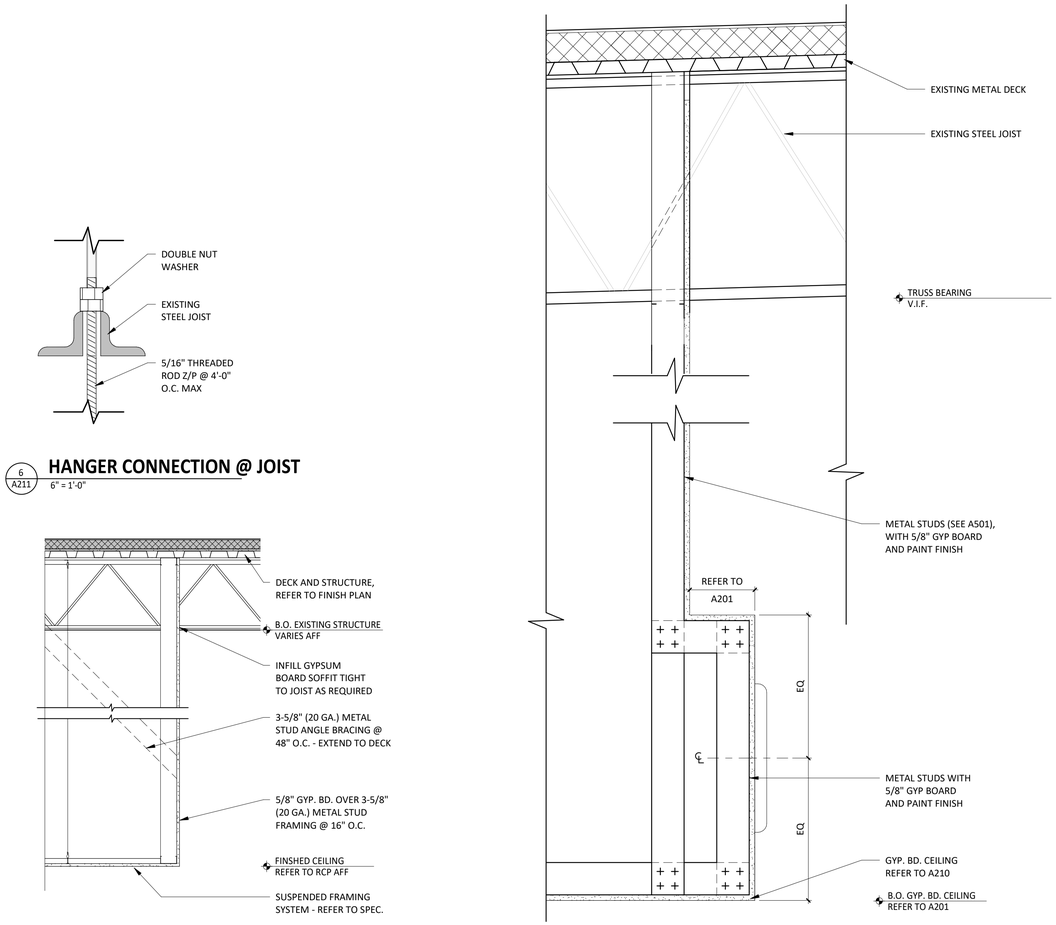
A210



1 A211 **JOIST SHELF DETAIL**
1 1/2" = 1'-0"

6 A211 **HANGER CONNECTION @ JOIST**
6" = 1'-0"

2 A211 **SECTION @ SOFFIT**
3/4" = 1'-0"

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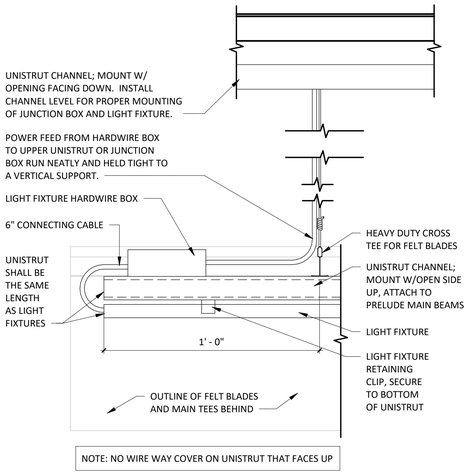
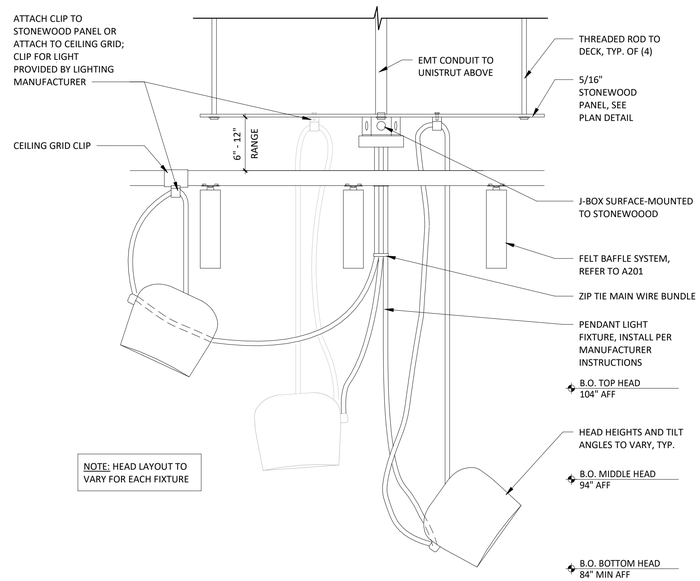


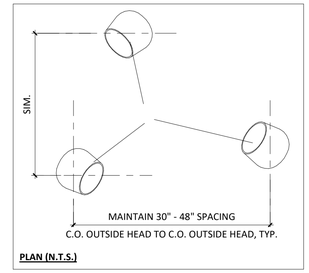
NOTE: NO WIRE WAY COVER ON UNISTRUT THAT FACES UP

3 A212 SUSPENDED STRIP LIGHT CONNECTION DETAIL @ FELT BLADE

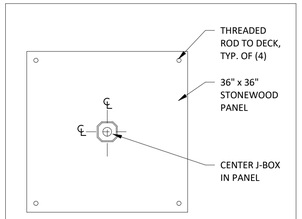
3" = 1'-0"



NOTE: HEAD LAYOUT TO VARY FOR EACH FIXTURE



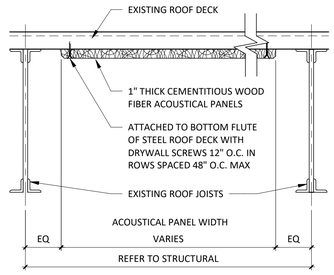
PLAN (N.T.S.)



STONEWOOD PANEL PLAN (N.T.S.)

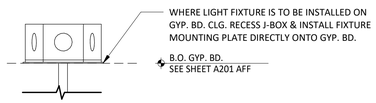
4 A212 SUSPENDED LIGHT FIXTURE @ FELT BLADES

1 1/2" = 1'-0"

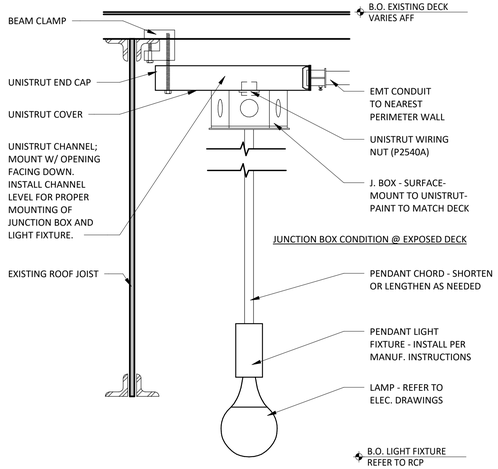


5 A212 TECTUM DETAIL

1 1/2" = 1'-0"

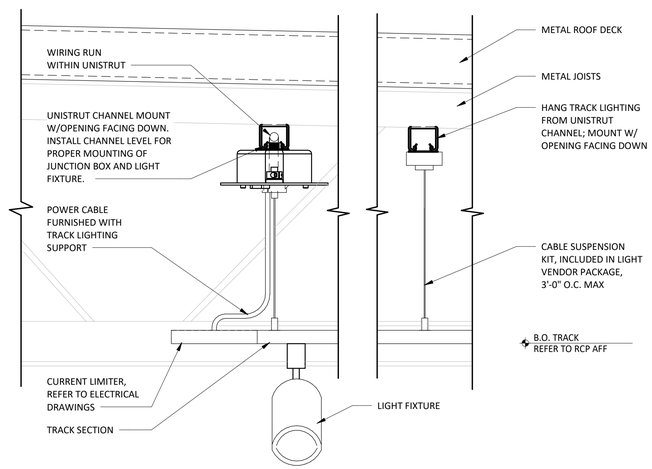


JUNCTION BOX CONDITION @ GYP. BD. CEILING



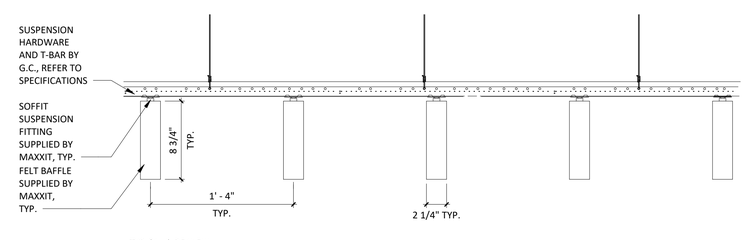
1 A212 PENDANT LIGHT

3" = 1'-0"

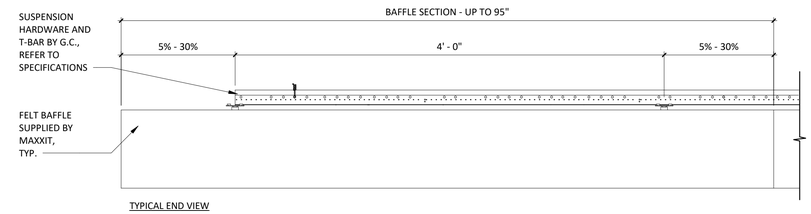


6 A212 TRACK LIGHT

3" = 1'-0"



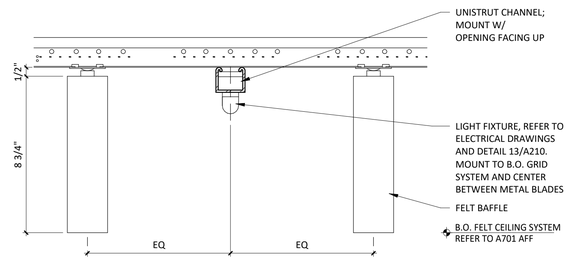
TYPICAL SIDE VIEW



TYPICAL END VIEW

7 A212 FELT BLADE LAYOUT

1 1/2" = 1'-0"



2 A212 SUSPENDED LIGHT @ FELT BLADE

3" = 1'-0"

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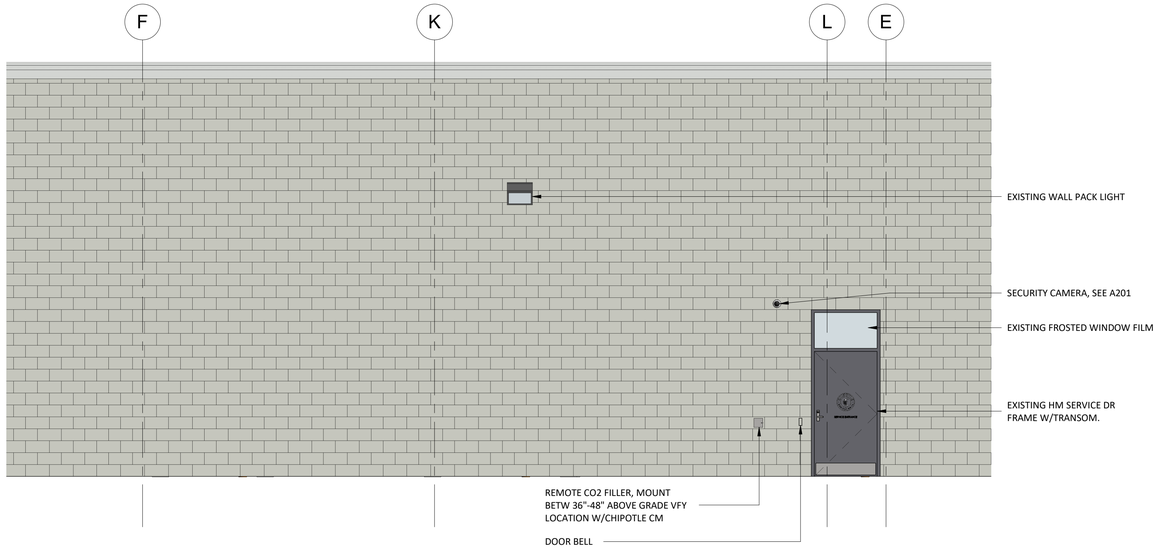
A212

GENERAL NOTES

1.	RE A602 FOR STOREFRONT DETAILS, TYPES AND WINDOW TYPES.
2.	EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.
3	SEE G001 FOR SPECIFIC PROJECT ENERGY CODE REQUIREMENTS AND VALUES THAT SHALL BE MET.
4	SEE A602 FOR GLAZING NOTES.



2 / A301 **EXTERIOR ELEVATION - REAR**

1/4" = 1'-0"

3 / A301 **EXTERIOR ELEVATION - FRONT**

1/4" = 1'-0"

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11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

Drawn: EYW

Checked: DG

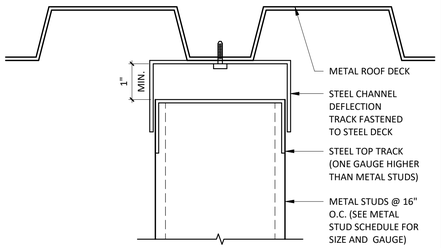
Project No.

CMG 5494

Contents:

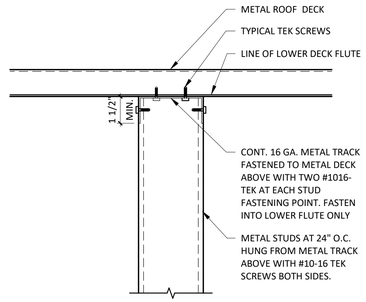
EXTERIOR ELEVATIONS

A301

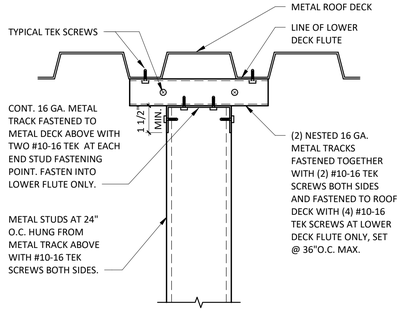


3 A501 **DEFLECTION TRACK DETAIL @ PARTITION**

6" = 1'-0"

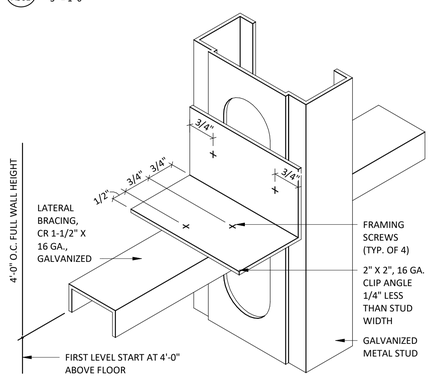


PERPENDICULAR TO ROOF DECK SPAN



2 A501 **SOFFIT HANGING DETAIL**

3" = 1'-0"



1 A501 **LATERAL BRACING DETAIL @ PARTITION**

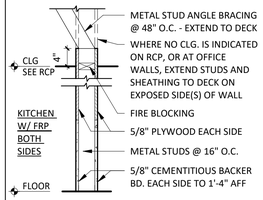
NOT TO SCALE

PARTITION TYPES

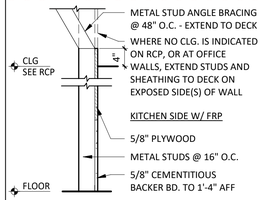
1. G.C. SHALL PROVIDE SOLID BLKG. IN WALLS AS NEEDED
2. REFER TO ARCHITECTURAL FLOOR PLAN FOR ALL STUD SIZES
3. REFER TO A120 FOR ALL WALL FINISHES

NOTE: ALL CONCEALED WOOD TO BE FRT RATED

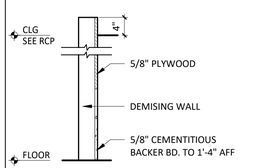
2 **Wx** DEMISING 2-HR PARTITION



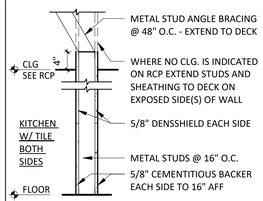
W1 INTERIOR PARTITION



W1a INTERIOR PARTITION



W1ax INTERIOR PARTITION



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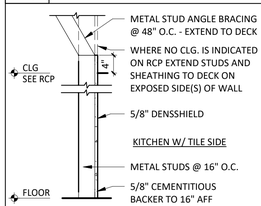

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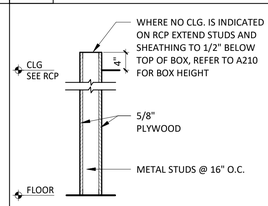

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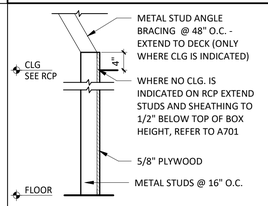

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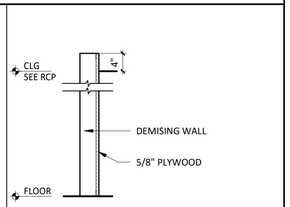

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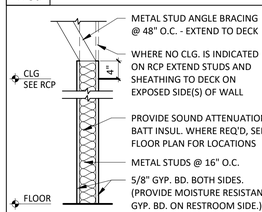

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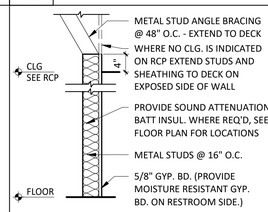

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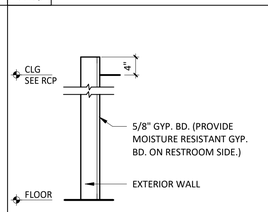

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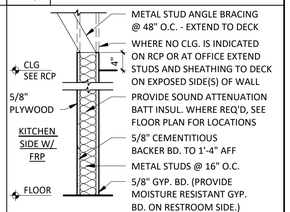

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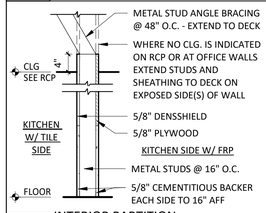

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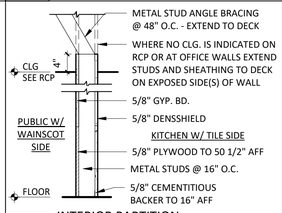

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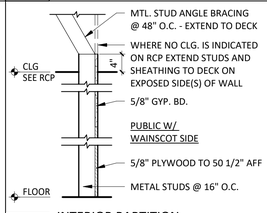
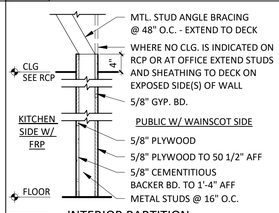


W10a INTERIOR PARTITION



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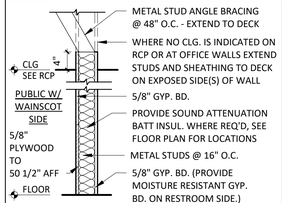
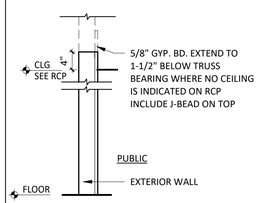
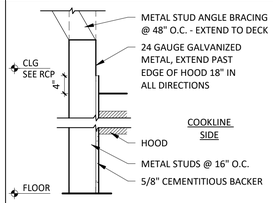


W14 INTERIOR PARTITION



W15ax 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	W/O HUNG SHELVING	W/ HUNG SHELVING
362S125-18	UP TO 12'-0"	
362S137-33	UP TO 16'-0"	UP TO 12'-0"
600S137-33	UP TO 22'-0"	UP TO 16'-0"
600S162-43	UP TO 26'-0"	UP TO 22'-0"

1. ALL HEIGHTS REFER TO UN-BRACED HEIGHTS.
2. ALL HEIGHTS BASED ON 16" O.C. SPACING.
3. BOTTOM TRACK TO BE SAME GAUGE AS STUD.
4. TOP TRACK TO BE ONE GAUGE HIGHER.

PARTITION NOTES

1. ALL METAL STUDS TO CONFORM TO LOCAL BUILDING CODES.
2. ALL STUD WALLS AND PARTITIONS REQUIRE GYP. BOARD ON BOTH SIDES FOR THE FULL HEIGHT OF THE STUDS UNLESS SPECIFICALLY DETAILED OTHERWISE.
3. ALL SUSPENDED WALLS SHALL HAVE GYP. BOARD WHICH EXTENDS 4" ABOVE THE SUSPENDED CEILING UNLESS SHOWN AND/OR NOTED OTHERWISE BY THE ARCHITECT.
4. FIRE RETARDANT PLYWOOD MAY SUBSTITUTE FOR GYP. BOARD WHERE SO DIRECTED BY THE ARCHITECT.
5. ALL STUD WALLS AND PARTITIONS SHALL HAVE CONTINUOUS LINES OF BRIDGING SPACED AT 4'-0" MAXIMUM ON CENTER. THE BRIDGING SHALL BE SECURELY FASTENED TO THE STUDS WITH EITHER SCREWS OR WELDS. REFER TO DETAILS THIS SHEET.
6. ALL STUDS SHALL BE "CEE" STUDS WITH FLANGE STIFFENERS.
7. THE MATERIALS AND DETAILS SHOWN ARE FOR TYPICAL INSTALLATIONS. WHERE THE STUD MANUFACTURER'S RECOMMENDATIONS OR LOCAL ORDINANCES ARE MORE RESTRICTIVE, THEY SHALL APPLY.
8. TYPICAL FASTENER:

A. STEEL STUDS TO STEEL STUDS OR TRACKS:
- 20 GAUGE - #8 - 18 X 1/2" TEKS WITH PHILIPS PAN HEAD - MIN. 2 PER CONNECTION
- 18/16 GAUGE - #10 - 16 X 3/4" TEKS WITH PHILIPS PAN HEAD - MIN. 3 PER CONNECTION

B. STEEL STUDS OR TRACKS TO WOOD PURLINS, GIRDERS AND BEAMS:
- #14 - 10 X 1-1/2" H.W.H. TYPE "S" METAL-TO-WOOD TEKS AT 12" O.C., 2" FROM EACH END

C. STEEL STUDS OR TRACKS TO STRUCTURAL STEEL (TUBE/WIDE FLANGE COL'S, BM'S, GIRDER'S, ETC.)
- 0.145" DIA. HILTI X-EDNI FASTENERS, 5/8" MIN, LENGTH AND MIN. OF 2 PER CONNECTION, OR 2 ROWS AT 16" O.C. FOR CONTINUOUS APPLICATIONS SUCH AS TRACKS, U.N.O.

D. PLYWOOD TO STEEL STUDS:
- #10 - 24 X 1-1/4" TEKS/3 (PLYMETALTEKS) WITH THIN WAFER HEAD - 24" O.C. FILED, 12" O.C. PERIMETER

E. GYPSUM BOARD TO STEEL STUDS:
- #7 X 1-1/4" HI-LOW TYPE "S" BUGLE HEAD SCREWS FOR 3/8" TO 5/8" GYP. BD. TO 25 GAUGE OR 20 GAUGE STUDS
- #6 X 1-1/4" TYPE S-12 BUGLE HEAD SCREWS FOR 3/8" TO 5/8" TO 18 GAUGE OR 16 GAUGE STUDS OR TRACKS
- FIELD - 12" O.C. CEILINGS, 24" O.C. WALLS
- BUTT JOINTS 12" O.C.

F. STEEL STUDS OR TRACKS TO CONCRETE:
- 0.145" DIA. HILTI X-DNI FASTENER, 1" MIN. LENGTH, 2 ROWS AT 16" O.C.

LINGLE DESIGN GROUP INC
158 W. MAIN ST.
LENA, IL 61048
815.369.9155
1764 BLAKE ST
DENVER, CO 80202
303.974.5873
WWW.LINGLEDESIGN.COM

REGISTERED ARCHITECT CARL L. LINGLE 029442-1 STATE OF NEW YORK

CHIPOTLE MEXICAN GRILL

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

STORE NO.: 5494
EAST AURORA
168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

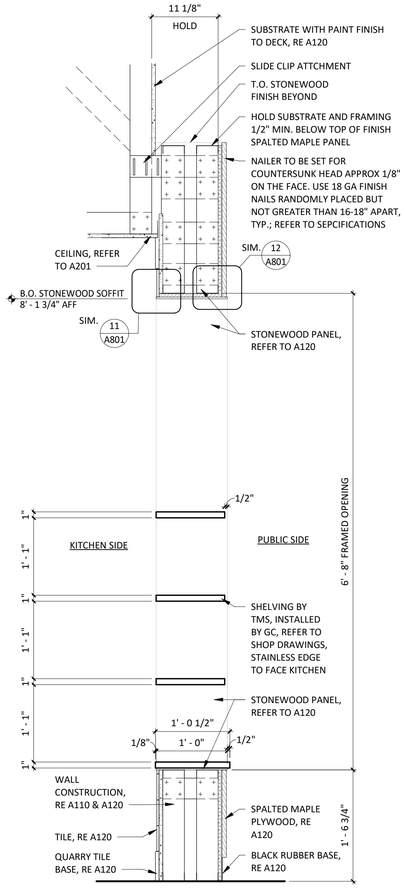
2	10/17/24	BUILDING COMMENTS

Drawn: EYW
Checked: DG

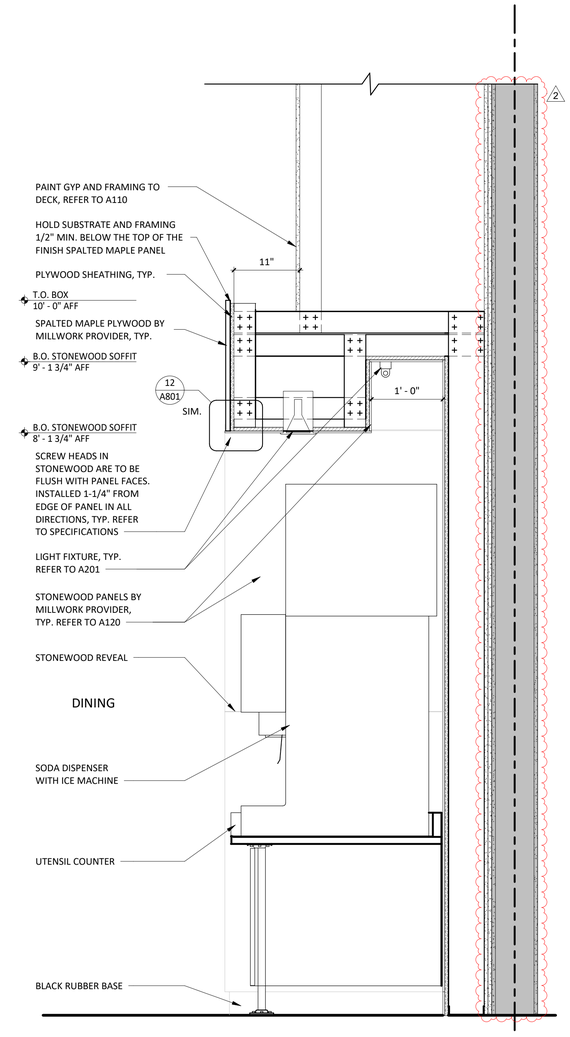
Project No.: CMG 5494

Contents: ARCHITECTURAL WALL TYPES

A501



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



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

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

REGISTERED ARCHITECT
CARL L. LINGLE
029442-1
STATE OF NEW YORK

CHIPOTLE MEXICAN GRILL

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CMG 5494

Contents:
INTERIOR SECTIONS

A502

DOOR SCHEDULE

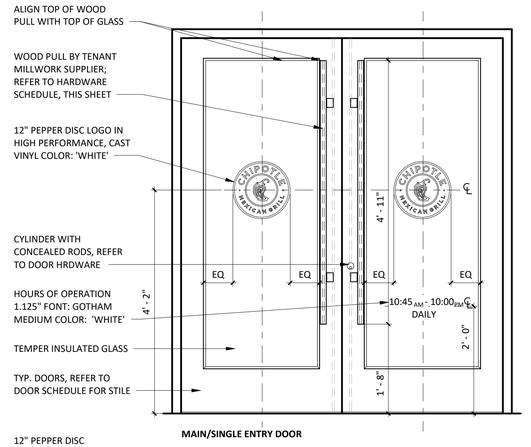
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
100A	MAIN ENTRY	NEW	NEW	SINGLE STOREFRONT - VESTIBULE (WIDE STILE, NON-OFFSET)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D			1,5
100B	MAIN ENTRY	NEW	NEW	SINGLE STOREFRONT - VESTIBULE (WIDE STILE, NON-OFFSET)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2D			1,5
108	KITCHEN	NEW	NEW	KITCHEN/PASSAGE ACCESS DOOR	3' - 6"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	9			1
109	OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4			
111	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			
112	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		
116	OPEN OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4			
E100	MAIN ENTRY	EXISTING	EXISTING	DOUBLE STOREFRONT (MEDIUM STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	MEDIUM (4")	1			1,2,4,5
E103	PASSAGE	EXISTING	EXISTING	HM REAR KITCHEN (MASONRY)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3			1,4,6

REMARK NOTES

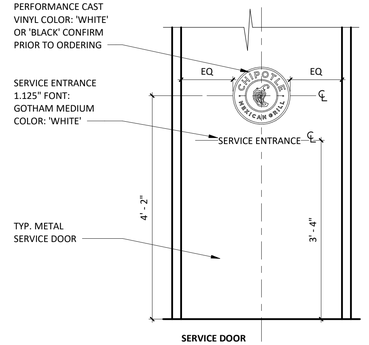
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE 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.

*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



MAIN/SINGLE ENTRY DOOR



SERVICE DOOR

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH

(2)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(2)	PUSH HARDWARE	1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE	1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT	ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR	ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT	ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT	ADAMS RITE, MODEL 4015-18-18
(2)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP	GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-72 (SIZE 72")
(2)	SMOKE SEAL	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

SET 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 3 - REAR EXIT - SINGLE

(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S424A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR SILENCERS	IVES, MODEL SR64
(1)	DOOR BUZZER	TRINE, MODEL 240
(1)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 4 - MANAGER'S OFFICE

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	LOCKSET	SCHLAGE, MODEL L9453L-06A-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	DOOR STOP	DON-JO, MODEL 1407-630, STAINLESS STEEL
(3)	DOOR SILENCERS	IVES, MODEL SR64
(1)	SECURITY WINDOW	AIR LOUVERS, MODEL VSL1212TEMPPAK SLIMLINE 12" X 12" X 1/4" LITE KIT (10" X 10" GLASS VISIBLE)

SET 5 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 6 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD

(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK	MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 9 - KITCHEN/PASSAGE - KEYPAD LOCK

(3)	HINGE	STANLEY, MODEL FBB179-26D (SIZE 4-1/2" x 4-1/2")
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	LOCKSET	SCHLAGE, MODEL CO-100-CY-70-KP-RHO-626-PD
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR STOP	DON-JO, 1407-630
(2)	KICK PLATE	HIAWATHA, MODEL KP834-32D

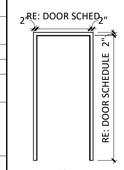
GENERAL NOTES

1. RE A602 FOR STOREFRONT DETAILS, TYPES AND WINDOW TYPES.
2. EXTERIOR SIGNAGE PROVIDED BY TSV AND INSTALLED BY TSV. GC TO MAKE FINAL CONNECTION.
3. SEE G001 FOR SPECIFIC PROJECT ENERGY CODE REQUIREMENTS AND VALUES THAT SHALL BE MET.
4. SEE A602 FOR GLAZING NOTES.

DOOR NOTES

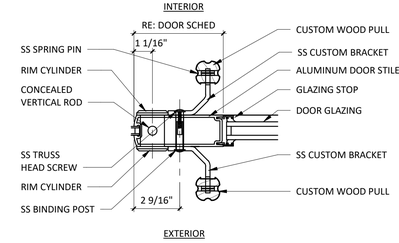
1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE OUTSIDE IN CASE OF AN EMERGENCY.
4. ALL DOORS TO REMAIN UNLOCKED DURING BUSINESS HOURS.
5. SEE THIS SHEET FOR EXTERIOR DOOR SIGNAGE INFO.
6. MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS.
7. ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY TENANT HARDWARE SUPPLIER AND INSTALLED BY TENANT G.C. CALL PETE KLIMEK WITH TWIN CITY HARDWARE AT 763-535-4660 TO ARRANGE DELIVERY. STOREFRONT DOORS ARE TO BE PROVIDED BY G.C., STOREFRONT HARDWARE PROVIDED BY TENANT HARDWARE SUPPLIER.
8. THE BOTTOM 10 INCHES OF ALL DOORS SHALL HAVE A SMOOTH, UNINTERRUPTED SURFACE TO ALLOW THE DOOR TO BE OPENED BY A WHEELCHAIR FOOTREST WITHOUT CREATING A TRAP OR HAZARDOUS CONDITION.
9. ALL SUPPORT SIGNAGE PROVIDED BY TENANT'S SUPPORT SIGNAGE SUPPLIER.
10. ALL SUPPORT SIGNAGE INSTALLED BY G.C.
11. ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING

DOOR FRAMES

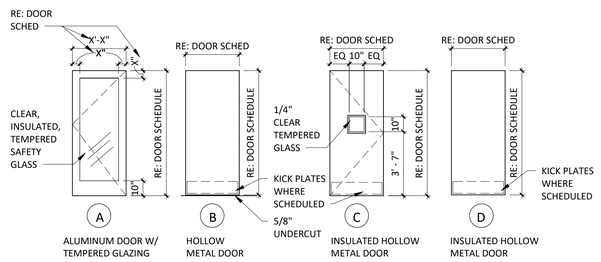


NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

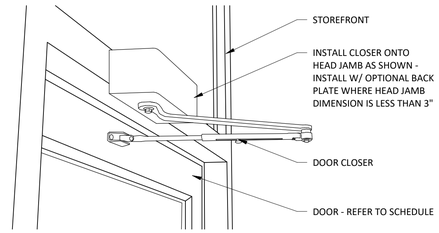
CUSTOM WOOD PULL



DOOR TYPES



DOOR CLOSER



TOP JAMB MOUNT INSTALLATION. (NOTE THAT BACKPLATE IS MISSING IN THIS INSTALLATION BECAUSE HEAD JAMB IS OF ADEQUATE HEIGHT TO RECEIVE ALL MOUNTING SCREWS WITHOUT IT.) WHEN IN DOUBT ABOUT THE HEAD JAMB DIMENSION OR STABILITY, ORDER THE BACKPLATE.

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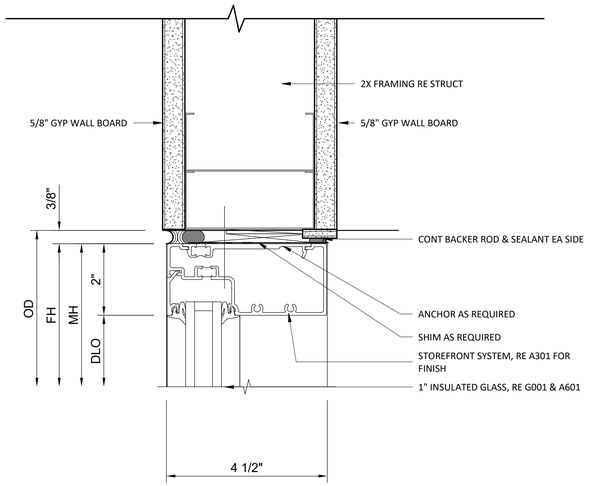
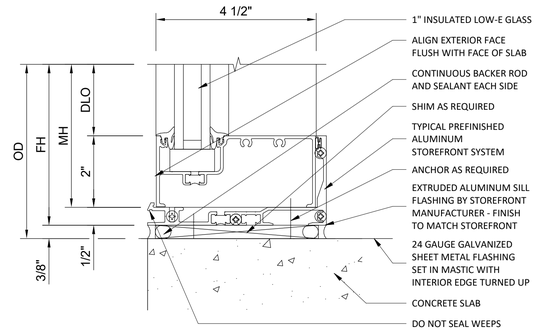
Contents:
DOOR & HARDWARE SCHEDULE

A601



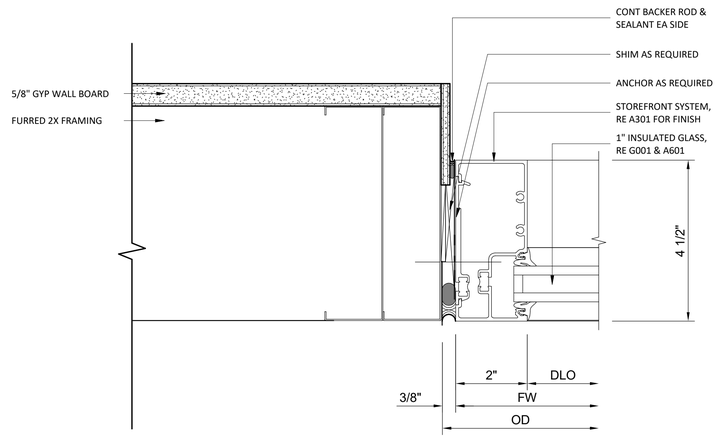
3 A602 **STOREFRONT HEAD**

6" = 1'-0"



2 A602 **STOREFRONT SILL**

6" = 1'-0"



1 A602 **STOREFRONT JAMB**

6" = 1'-0"

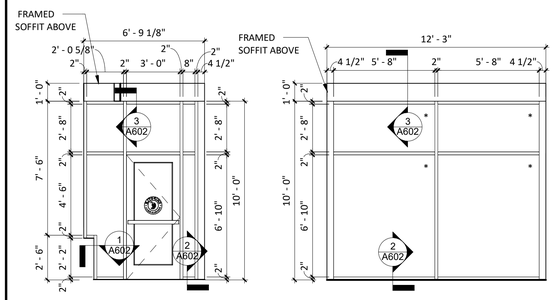
GENERAL NOTES

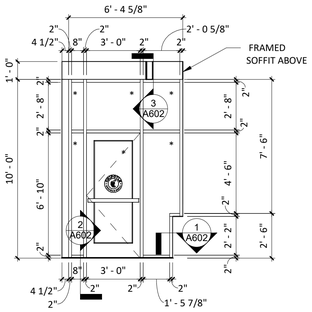
1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR / INSULATED UNLESS NOTED OTHERWISE.
2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "*".
3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY G.C. G.C. TO VERIFY FRAMING OPENING SIZES AND MATERIALS WITH ARCHITECT AND/OR CHIPOTLE CONSTRUCTION MANAGER PRIOR TO FABRICATION.
4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER PREFINISHED ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING, REFER TO SPECIFICATIONS.

VESTIBULE STOREFRONT ELEVATIONS

NOTE: ALL VIEWS FROM THE DINING AREA

SCALE: 1/4" = 1'-0"





GLAZING NOTES

1. ALL GLAZING SHALL MEET SAFETY GLAZING REQUIREMENTS PER CURRENT INTERNATIONAL BUILDING CODE CHAPTER 24.
2. MIN. CATEGORY CLASSIFICATION OF GLAZING USING CPSC 16 CFR PART 1201 (IBC TABLES 2406.2(1))
   - 2.1. 9 SF OR LESS: SEE TABLE
   - 2.2. EXPOSED SURFACE AREA OF ONE SIDE OF ONE LITE IS MORE THAN 9 SF:CLASS 2:
3. MIN CATEGORY OF CLASSIFICATION OF GLAZING USING ANSI Z97.1 (IBC TABLES 2406.2(2))
   - 3.1. 9 SF OR LESS: SEE TABLE
   - 3.2. EXPOSED SURFACE AREA OF ONE SIDE OF ONE LITE IS MORE THAN 9 SF: CLASS A:
4. 2406.3 IDENTIFICATION OF SAFETY GLAZING:
   EXCEPT AS INDICATED IN SECTION 2406.3.1, EA PANE OF SAFETY GLAZING INSTALLED IN HAZARDOUS LOCATION SHALL BE IDENTIFIED BY A MFR DESIGNATION SPECIFYING WHO APPLIED THE DESIGNATION, THE MNFR OR INSTALLER AND THE SAFETY GLAZING STD WITH WHICH IT COMPLIES, AS WELL AS THE INFO SPECIFIED IN SECTION 2403.1. THE DESIGNATION SHALL BE ETCHED, SANDBLASTED, CERAMIC FIRED, LASER ETCHED, EMBOSSED OR A TYPE THAT ONCE APPLIED, CANNOT BE REMOVED WITHOUT BEING DESTROYED. A LABEL MEETING THE REQUIREMENTS OF THIS SECTION SHALL BE PERMITTED IN LIEU OF THE MNFR DESIGNATION.

EXCEPTIONS:

1. FOR OTHER THAN TEMPERED GLASS, MNFR DESIGNATIONS ARE NOT REQ'D, PROVIDED THAT THE BLDG OFFICIAL APPROVES THE USE OF A CERTIFICATE, AFFADAVIT OR OTHER EVIDENCE CONFIRMING COMPLIANCE WITH THIS CODE.
2. TEMPERED SPANDREL GLASS IS PERMITTED TO BE IDENTIFIED BY THE MNFR WITH A REMOVABLE, PAPER DESIGNATION.

3. 2406.4 HAZARDOUS LOCATIONS
   - 2406.4.1 GLAZING IN DOORS
     GLAZING IN ALL FIXED AND OPERABLE PANELS OF SWINGING, SLIDING AND BIFOLD DOORS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION. SEE EXCEPTIONS.
   - 2406.4.2 GLAZING ADJ TO DOORS
     GLAZING IN INDIVIDUALS FIXED OR OPERABLE PANEL ADJ TO DOOR WHERE NEAREST VERTICAL EDGE OF THE GLAZING IS WITHIN 24-INCH ARC OF EITHER VERTICAL EDGE OF THE DOOR IN A CLOSED POSITION AND WHERE THE BOTTOM EXPOSED EDGE OF THE GLAZING IS LESS THAN 60 INCHES ABOVE THE WALKING SURFACE SHALL BE CONSIDERED TO BE HAZARDOUS.
   - 2406.4.3 GLAZING IN WINDOWS
     GLAZING IN INDIVIDUAL FIXED OR OPERABLE PANEL THAT MEETS ALL OF THE FOLLOWING CONDITIONS SHALL BE CONSIDERED TO BE A HAZARDOUS LOCATION. SEE EXCEPTIONS.
   - 2406.4.4 GLAZING IN GUARDS AND RAILINGS
   - 2406.4.5 GLAZING AND WET SURFACES
   - 2406.4.6 GLAZING ADJ TO STAIRWAYS AND RAMPS
   - 2406.4.7 GLAZING ADJ TO THE BOTTOM STAIRWAY LANDING

IBC, SECTION 2406.3(1)
BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS

4. PER TABLE C402.4 BUILDING ENVELOPE FENESTRATION MAXIMUM U-FACTOR AND SHGC REQUIREMENTS FOR PROJECT CLIMATE ZONE.
5. SEE PROJECT COVER SHEET G-001 FOR U-FACTOR AND SHGC REQUIREMENTS.

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Contents: STOREFRONT DETAILS

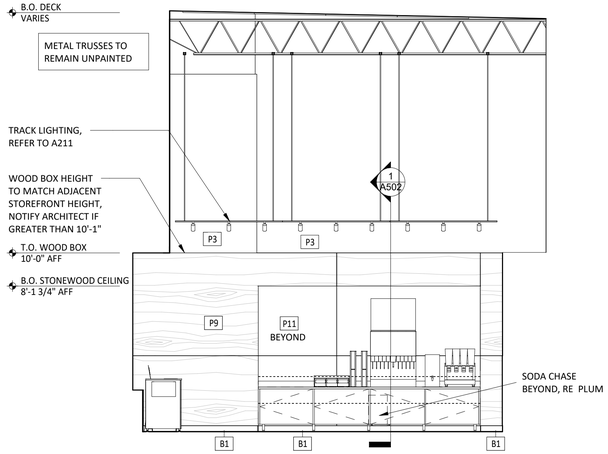
A602

ELEVATION LEGEND

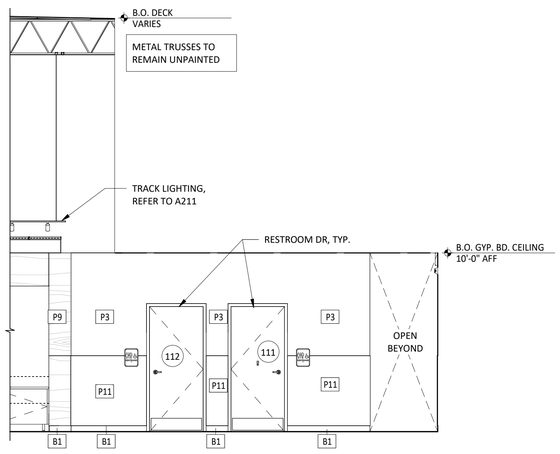
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

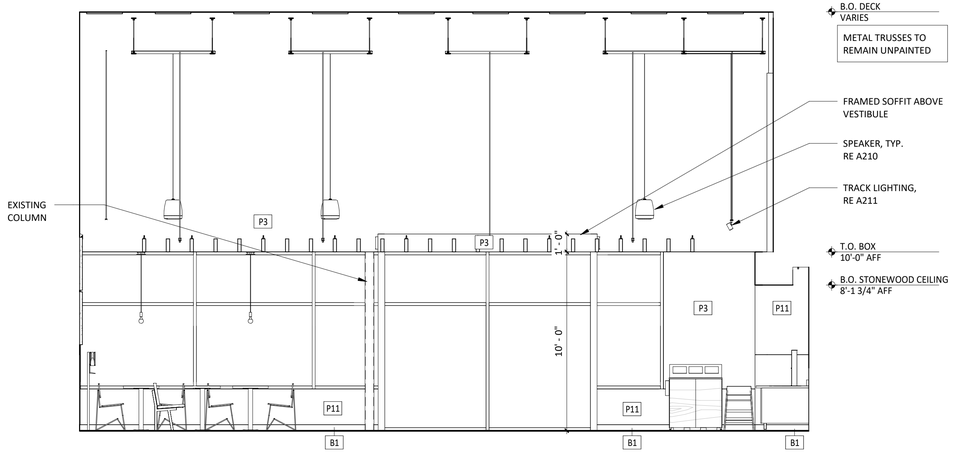
1. REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. REFER TO A120 FOR FINISH SCHEDULE.
3. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



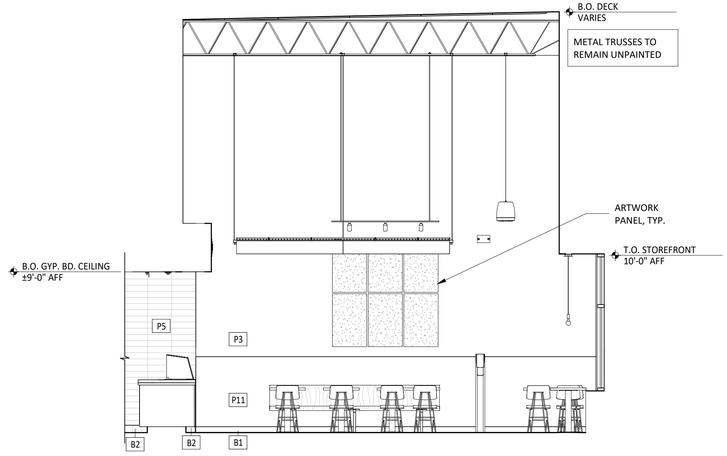
6 A701 **INT ELEV - DINING**
1/4" = 1'-0"



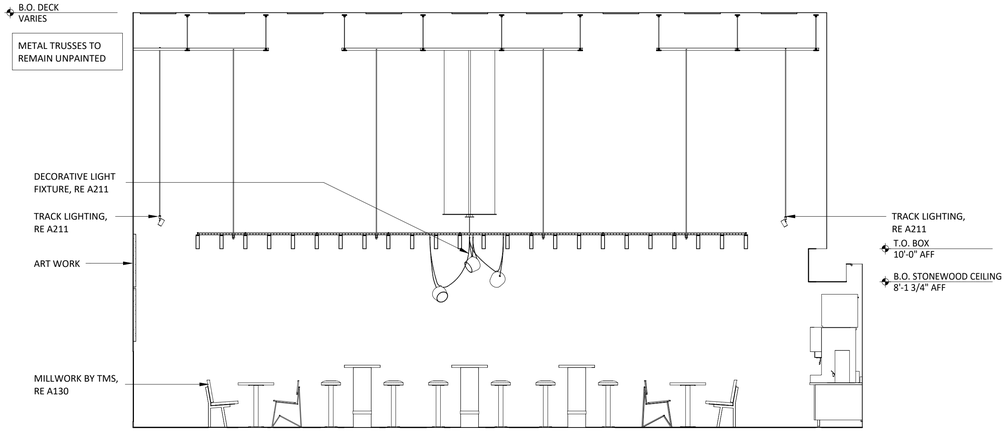
5 A701 **INT ELEV - DINING**
1/4" = 1'-0"



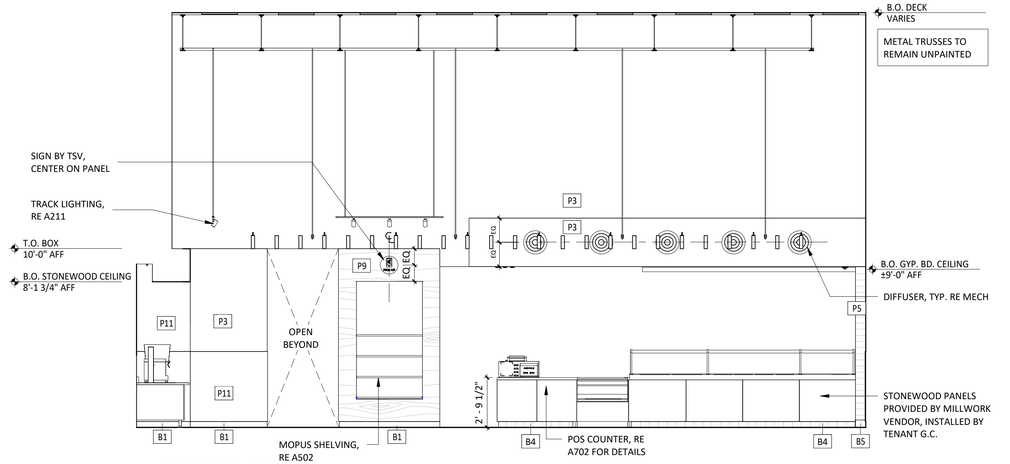
4 A701 **INT ELEV - DINING**
1/4" = 1'-0"



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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Contents:
ELEVATIONS - INTERIOR DINING

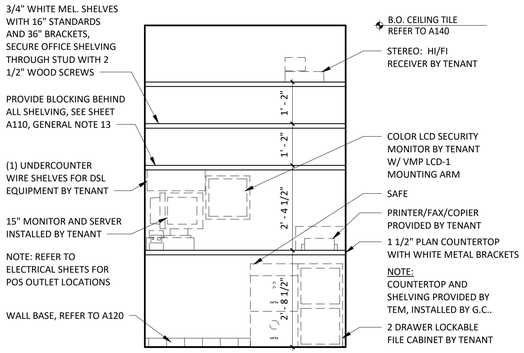
A701

ELEVATION LEGEND

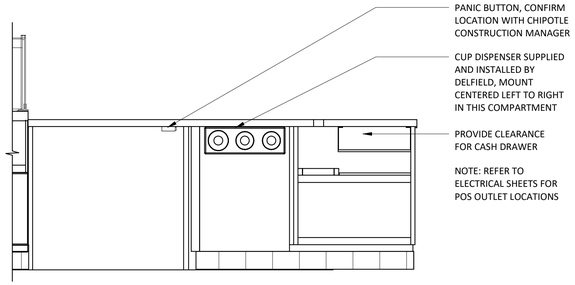
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

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.

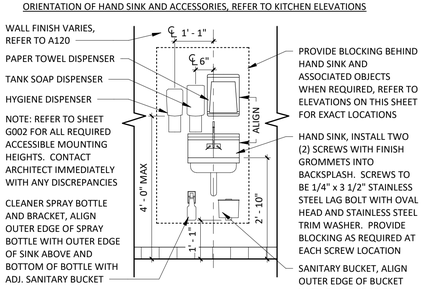


11 A702 **TYP ELEV - OFFICE SHELVING**
1/2" = 1'-0"



10 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



9 A702 **TYP ELEV - HAND SINK**
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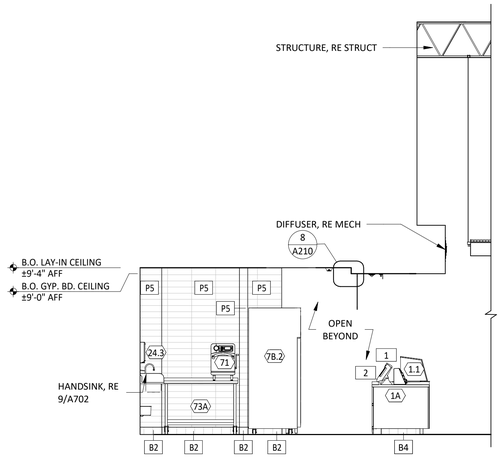
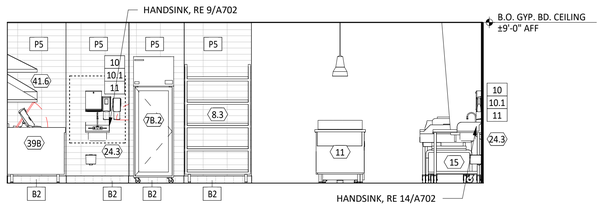
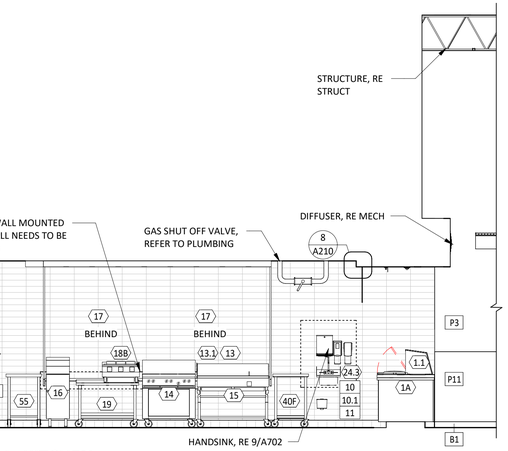
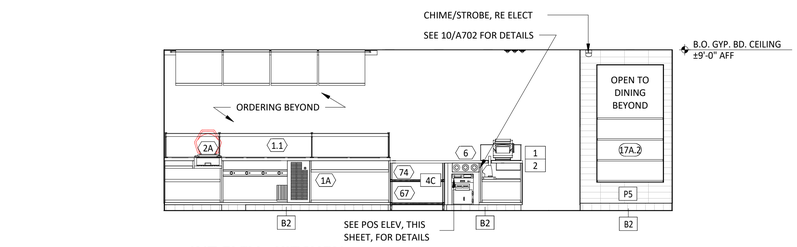


7 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"

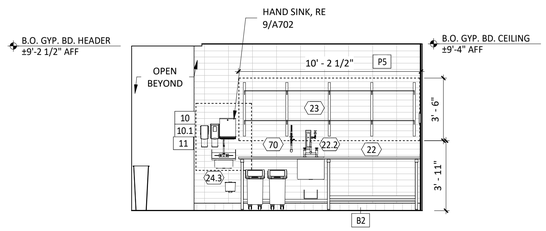


8 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



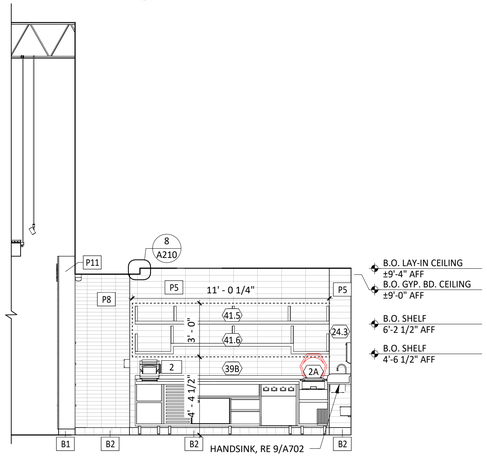


6 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



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

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



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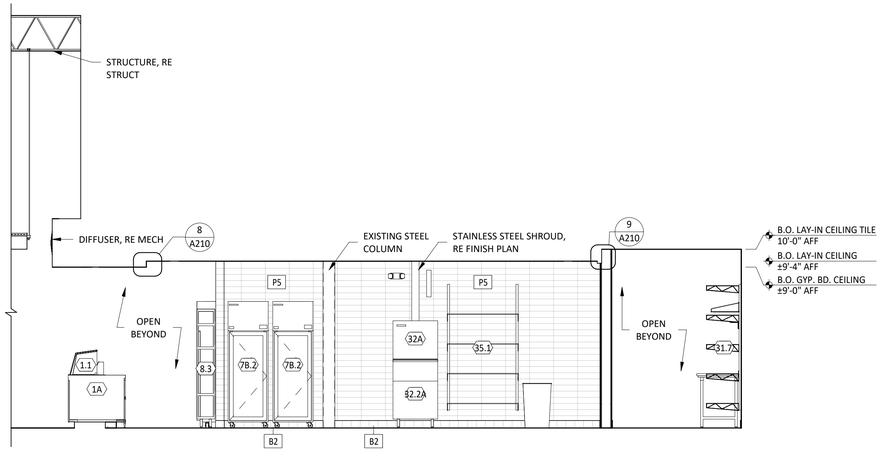
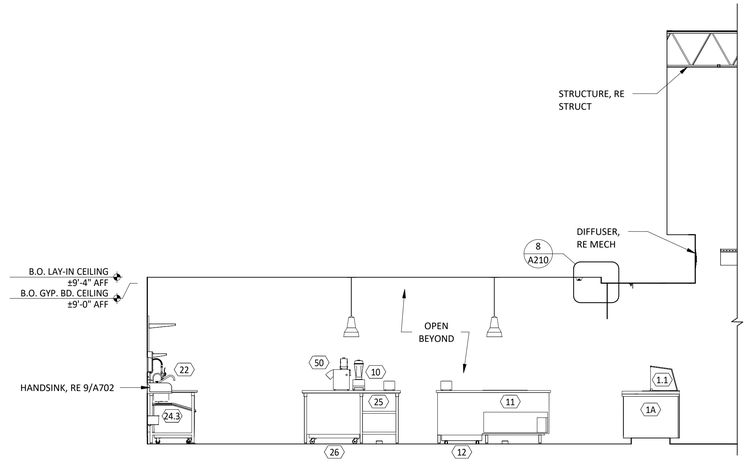
1/4" = 1'-0"



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



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

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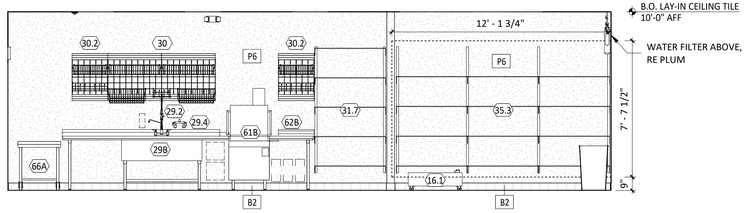
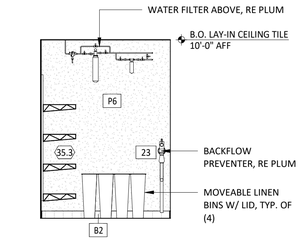
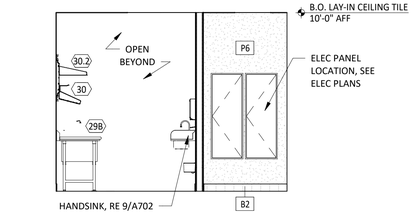
A702



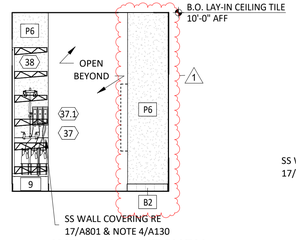
7 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



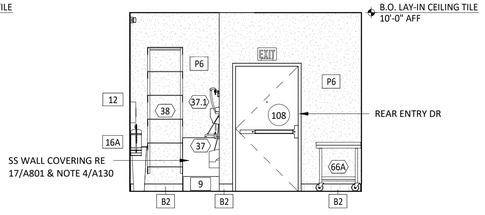
6 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



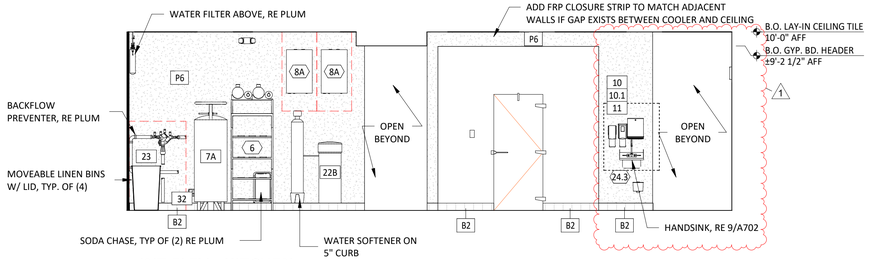
5 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



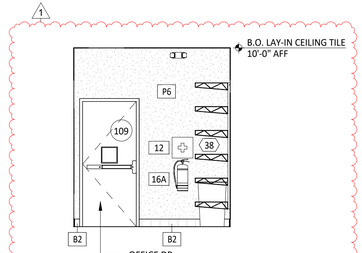
4 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



3 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



2 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"



1 A703 **INT ELEV - KITCHEN**
1/4" = 1'-0"

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Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

1	09/09/24	OWNER CHANGES

Drawn: EYW
Checked: DG

Project No.
CMG 5494

Contents:
ELEVATIONS - INTERIOR KITCHEN

A703

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	Mirror	ASI	600-B1836	2	WA	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC					47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
8	Utility Shelf	ASI	0692	2	WA	GC					46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC					Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC					Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	KB300-05	2	WA	GC					Mount Bottom of Open Changing Bed at Exactly 27" AFF	GC to Provide adequate blocking to support the baby changing equipment. Blocking shall be installed in such a manner to not damage or compromise the rated assembly of the existing wall construction

RESTROOM PLUMBING FIXTURE SCHEDULE

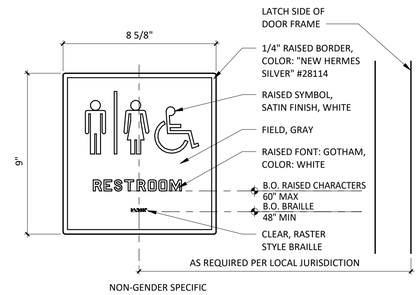
ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
14	Restroom Hand Sink	SEE MEP	SEE MEP	2	GC	GC				•	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC			•			To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.

GENERAL NOTES

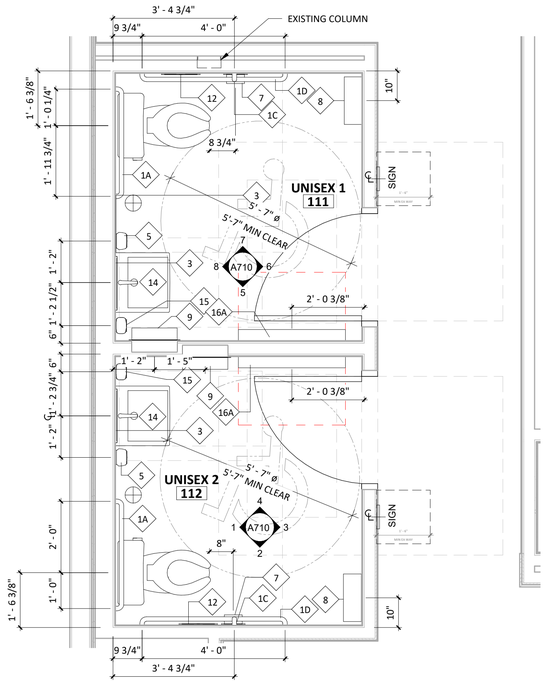
1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTES.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S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

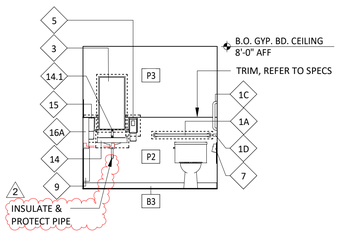
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



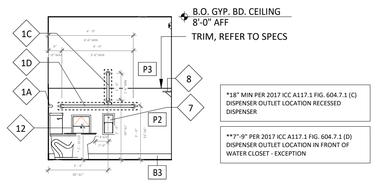
10 A710 **TYP WASHROOM SIGN**
3" = 1'-0"



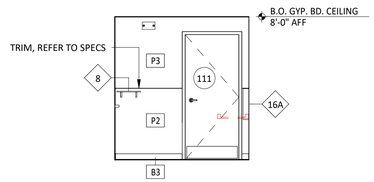
9 A710 **ENLARGED PLAN**
1/2" = 1'-0"



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



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



6 A710 **UNISEX 1 RESTROOM - ELEV**
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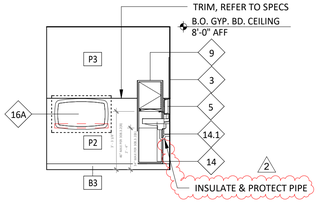

5 A710 **UNISEX 1 RESTROOM - ELEV**
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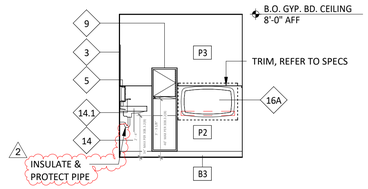
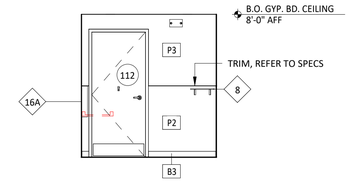


4 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"



3 A710 **UNISEX 2 RESTROOM - ELEV**
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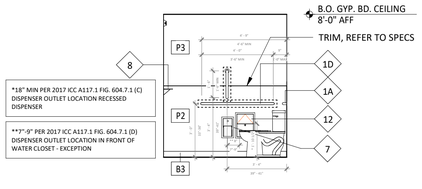

2 A710 **UNISEX 2 RESTROOM - ELEV**
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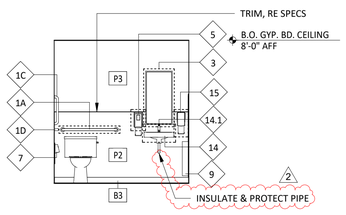

1 A710 **UNISEX 2 RESTROOM - ELEV**
1/4" = 1'-0"

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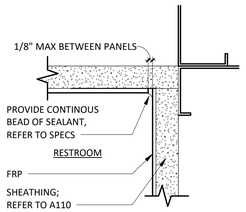
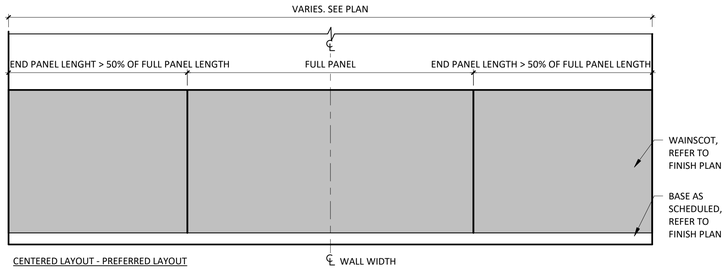
Contents:
RESTROOM DETAILS

A710

NOTE: ALL CONCEALED WOOD TO BE FRT RATED



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



16 A801 **WAINSCOT LAYOUT**
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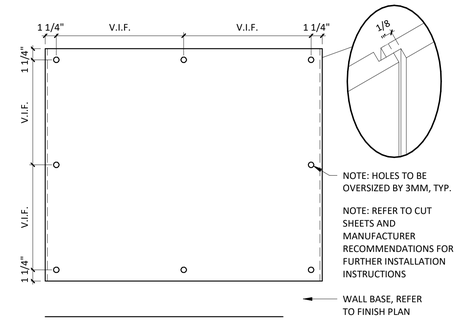
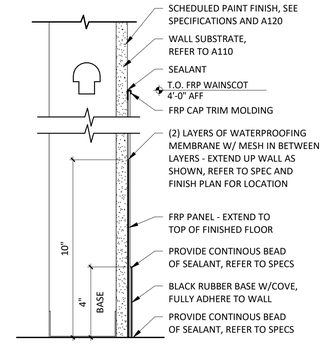
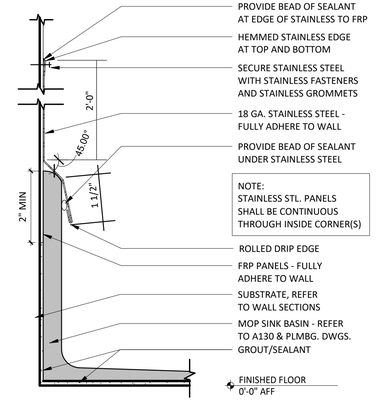


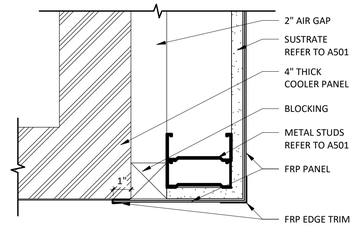
19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"



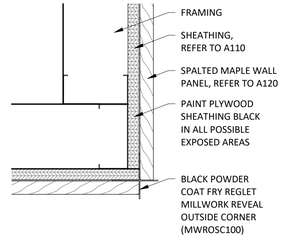
18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
3" = 1'-0"



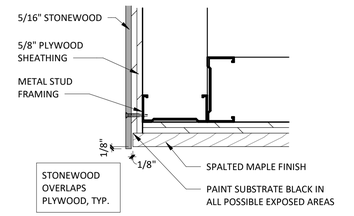
17 A801 **SECTION @ MOP SINK**
6" = 1'-0"



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

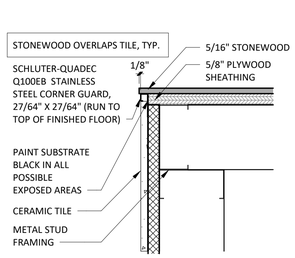


13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"

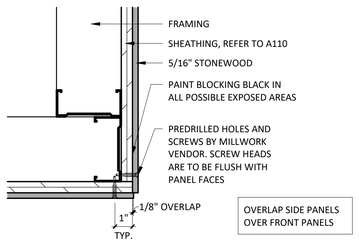


12 A801 **PLAN - WOOD TO STONEWOOD CORNER**
3" = 1'-0"

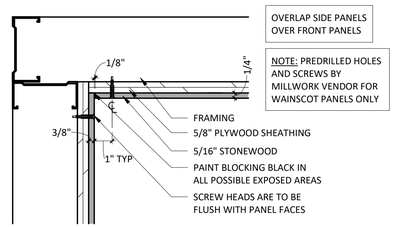
15 A801 **NOT USED**
N.T.S.



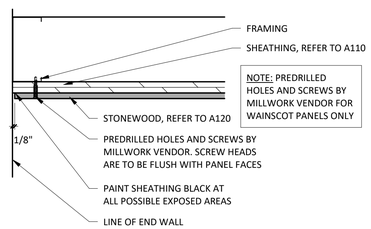
11 A801 **PLAN - STONEWOOD TO TILE CORNER**
3" = 1'-0"



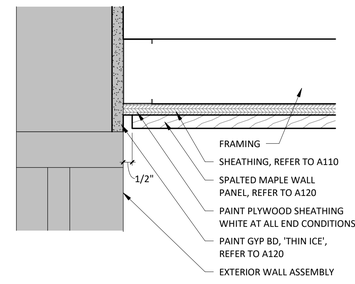
9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
3" = 1'-0"



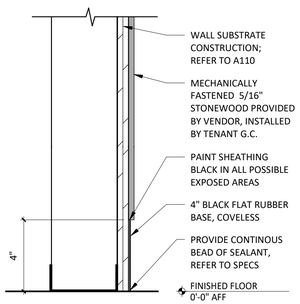
8 A801 **PLAN - STONEWOOD INSIDE CORNER**
3" = 1'-0"



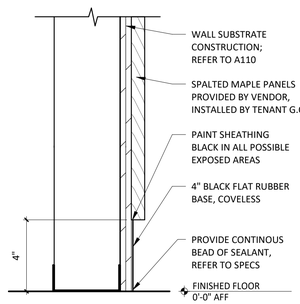
7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"



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



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



4 A801 **SECTION @ SPALTED MAPLE**
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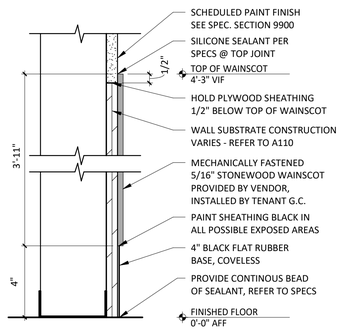
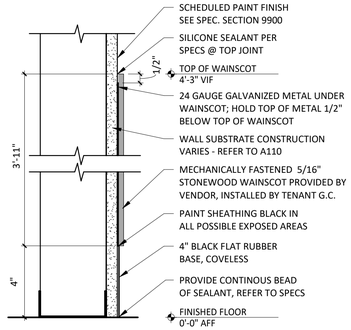
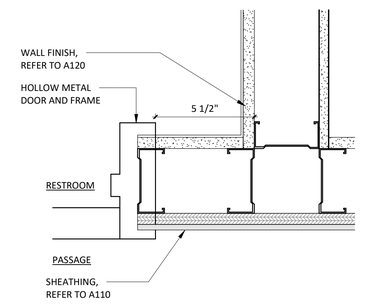


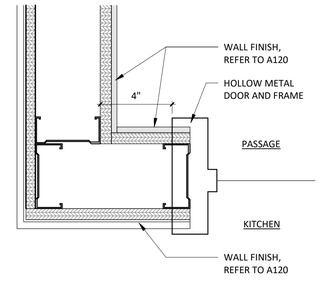
3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



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



1.2 A801 **PLAN - RESTROOM DOOR JAMB**
3" = 1'-0"



1 A801 **PLAN - TYP. DOOR JAMB**
3" = 1'-0"

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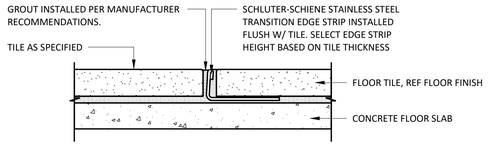
Contents: FINISH DETAILS

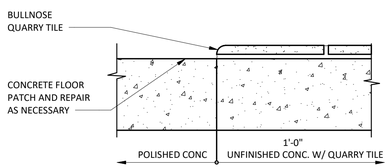
A801

GENERAL NOTES

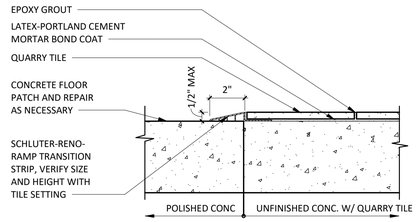
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION. CONTRACTOR SHALL CONTACT ARCHITECT OF ANY DISCREPANCIES IN DIMENSIONS FOR DIRECTION PRIOR TO INSTALLATION. FAILURE TO ADHERE TO THESE REQUIREMENTS RESULTING IN ANY REMEDIATION REQUIRED TO MEET DESIGN INTENT WILL BE AT CONTRACTOR'S COST.
2.	IF REQUIRED TO CUT TILES, CONTRACTOR TO MEASURE OVERALL WALL WIDTH AND DETERMINE WHICH SOLUTION WILL ALLOW FOR THE GREATER THAN 25% TILE WIDTH AT WALL TERMINATIONS.
3.	UNLESS OTHERWISE NOTED, ALL WALL TILES SHOULD BE CENTERED ON THE WIDTH OF THE WALL PER DETAIL 1 OR 2.
4.	THERE SHOULD NEVER BE ANY CUT TILES VERTICALLY BETWEEN THE BASE AND THE CEILING. REFER TO A120 AND A201.



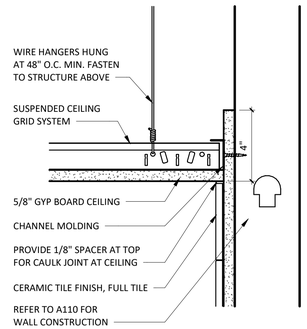
24 A802 **TILE TO TILE FLOOR TRANSITION**
6" = 1'-0"



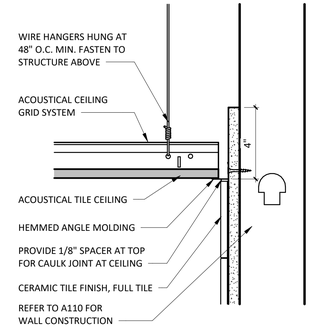
23 A802 **FLOOR TRANSITION @ READY TO DRINK**
3" = 1'-0"



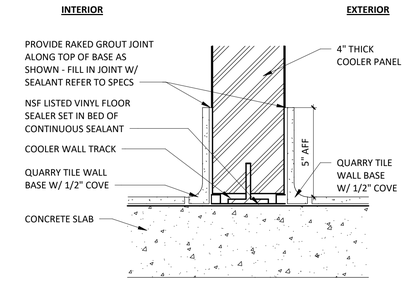
22 A802 **FLOOR TRANSITION W/ RAMP**
3" = 1'-0"



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



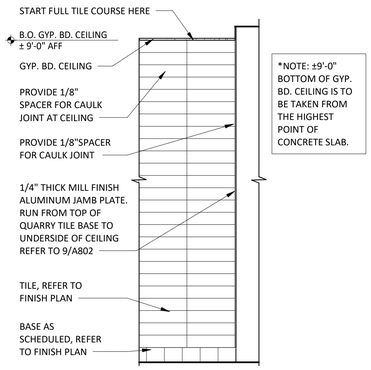
20 A802 **TILE DETAIL @ SUSPENDED CEILING**
3" = 1'-0"



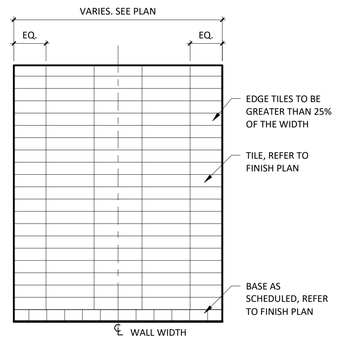
19 A802 **COOLER WALL @ QT**
3" = 1'-0"

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

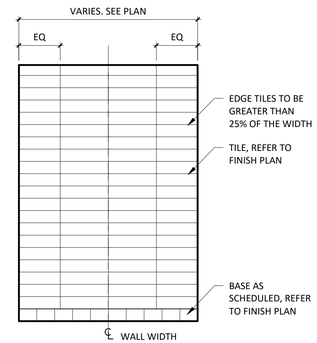
17 A802 **STUB SECTION DETAIL UNDER TABLES**
3" = 1'-0"



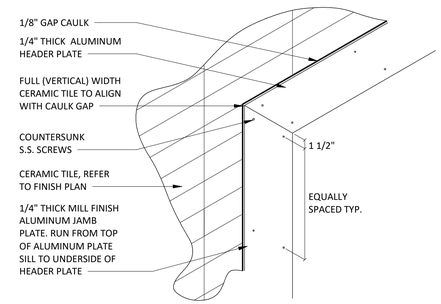
16 A802 **KITCHEN WALL ENDCAP TILE LAYOUT**
1/2" = 1'-0"



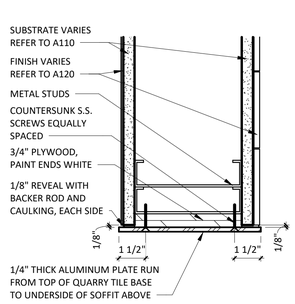
15 A802 **TILE CENTERED LAYOUT**
1/2" = 1'-0"



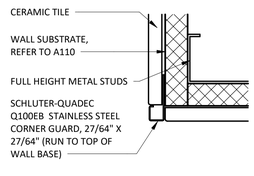
14 A802 **JOINT CENTERED LAYOUT**
1/2" = 1'-0"



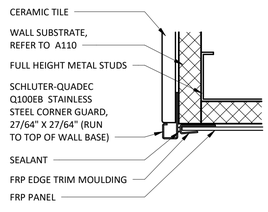
13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



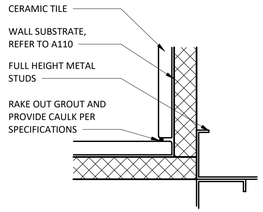
12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
3" = 1'-0"



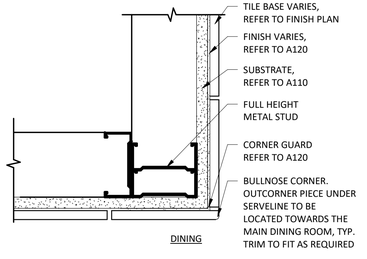
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



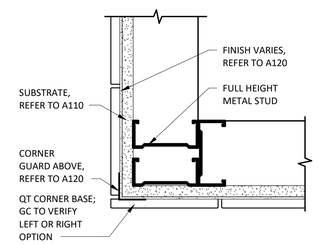
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



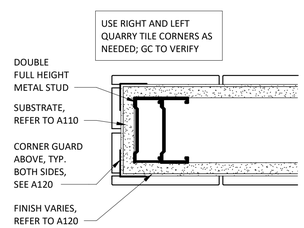
9 A802 **TILE TO TILE INSIDE CORNER**
6" = 1'-0"



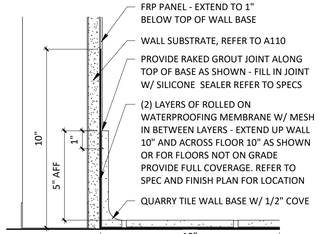
8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"



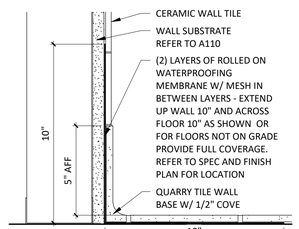
7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
3" = 1'-0"



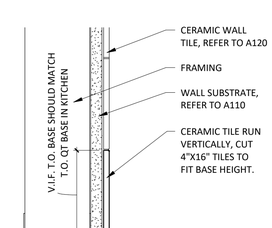
6 A802 **QT BASE - ENDCAP**
3" = 1'-0"



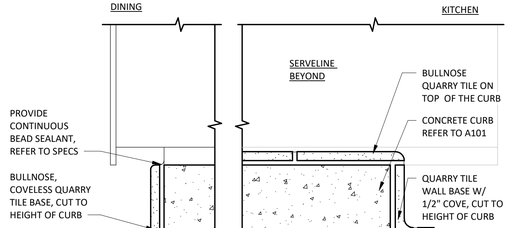
5 A802 **QT BASE @ FRP**
3" = 1'-0"



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



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



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

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

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168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/24	PERMIT SET
10/17/24	BUILDING COMMENTS
11/06/24	BUILDING COMMENTS
	ISSUE FOR CONSTRUCTION SET

Revisions:

Drawn: EYW
Checked: DG

Project No.
CMG 5494

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TILE DETAILS

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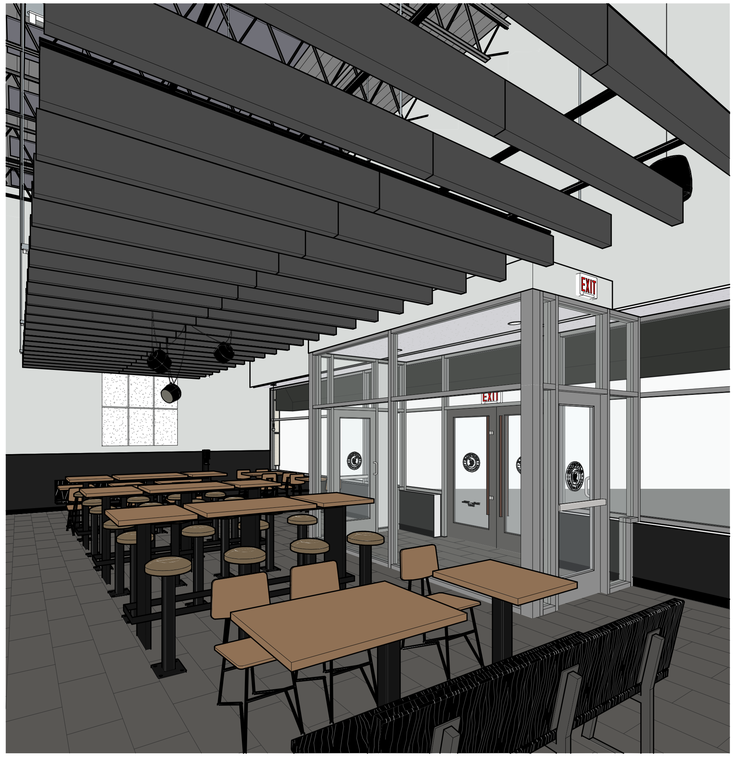
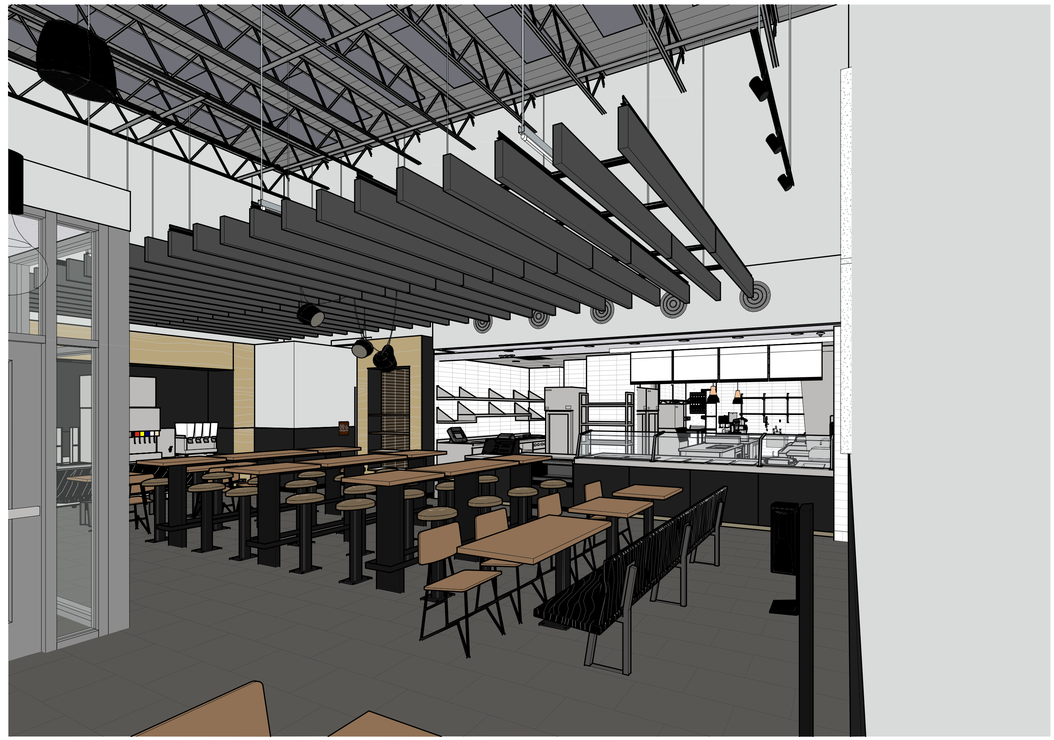
4 A900 **INTERIOR PERSPECTIVE**



3 A900 **INTERIOR PERSPECTIVE**

2 A900 **INTERIOR PERSPECTIVE**



1 A900 **INTERIOR PERSPECTIVE**

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EYW	DG

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Contents:
INTERIOR PERSPECTIVES

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4 A901 **EXTERIOR PERSPECTIVE**

3 A901 **EXTERIOR PERSPECTIVE**

1 A901 **EXTERIOR PERSPECTIVE**

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Contents:
EXTERIOR PERSPECTIVES

A901

BUILDING CODES AND STANDARDS USED FOR DESIGN

1. INTERNATIONAL BUILDING CODE 2020 EDITION
   ASCE 7-16
   OCCUPANCY CATEGORY: II

DESIGN LOADS

1.	DESIGN LOADS	
	ROOF LIVE LOAD:	20 psf
	ROOF DEAD LOAD:	20 psf
2.	WIND LOAD DESIGN CRITERIA	
	WIND IMPORTANCE FACTOR, I:	1.0
	ULTIMATE WIND SPEED:	110 MPH (3 SEC GUST)
	WIND EXPOSURE CATEGORY:	C
	GCpi:	+/- 0.18
3.	SNOW LOAD DESIGN CRITERIA	
	SNOW LOAD IMPORTANCE FACTOR, I:	1.0
	GROUND SNOW LOAD, Pg:	50 psf
	FLAT ROOF SNOW LOAD, Pf:	34.1 psf
	THERMAL FACTOR, Ct:	1.0
	EXPOSURE FACTOR, Ce:	1.0
4.	SEISMIC LOAD DESIGN CRITERIA	
	SEISMIC IMPORTANCE FACTOR, I:	1.0
	SITE CLASS:	D - DEFAULT
	SPECTRAL RESPONSE ACCELERATION:	Ss=0.167g, S1=0.045g Sds=0.178g, Sd1=0.072g
	SEISMIC DESIGN CATEGORY:	B

GENERAL STRUCTURAL NOTES

1. THIS DRAWING SET IS TO BE VIEWED AS A WHOLE AND COORDINATED WITH ARCHITECTURAL, MECHANICAL AND OTHER DISCIPLINES. ALL WORK PERTAINING TO A SPECIFIC CONTRACTOR MAY OR MAY NOT BE SHOWN ON SPECIFIC DRAWING SECTIONS. IT IS EACH SUBCONTRACTOR'S RESPONSIBILITY TO PREPARE HIS BID FROM A COMPLETE SET OF PLANS.
2. THE CONTRACTOR SHALL FOLLOW WRITTEN DIMENSIONS ONLY. DO NOT SCALE DRAWINGS. DIMENSIONS NOT SHOWN ON PLAN TO BE COORDINATED WITH ARCHITECTURAL PLANS.
3. WHERE INFORMATION PROVIDED IN THESE STRUCTURAL DRAWINGS CONTRADICTS INFORMATION PROVIDED IN PROJECT SPECIFICATIONS, THE SPECIFICATIONS SHALL TAKE PRECEDENCE.
4. ALL DETAILS AND SECTIONS SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY AT ANY SIMILAR SITUATION ELSEWHERE ON THE JOB, EXCEPT WHERE A DIFFERENT DETAIL OR SECTION IS SHOWN.
5. THE STRUCTURE SHALL BE ADEQUATELY BRACED AND SHORED DURING ERECTION AGAINST WIND AND ERECTION LOADS. STRUCTURAL MEMBERS ARE DESIGNED FOR "IN-PLACE" LOADS ONLY.
6. THE GENERAL CONTRACTOR SHALL VERIFY ALL OPENING SIZES, PAD SIZES, AND LOCATIONS WITH THE RESPECTIVE CONTRACTORS.
7. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT AND ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN CONSTRUCTION DOCUMENTS AND ACTUAL FIELD CONDITIONS.
8. SEE ARCHITECTURAL PLANS FOR ADDITIONAL DETAILS AND INFORMATION.
9. ALL ELEVATIONS GIVEN ARE REFERENCED TO FINISHED FLOOR ELEVATIONS AT 100'-0", UNLESS SHOWN AS USGS ELEVATIONS.
10. WHERE GENERAL NOTES OR TYPICAL DETAILS CONTRADICT INFORMATION PROVIDED IN BUILDING SECTIONS, THE BUILDING SECTIONS TAKE PRECEDENCE.
11. ALL HOLES THROUGH CONSTRUCTION SHALL BE CORE DRILLED OR SAWCUT.
12. ALL REINFORCEMENT AND SUBFRAMING INDICATED ON PLAN SHALL BE INSTALLED PRIOR TO PLACING EQUIPMENT.
13. EQUIPMENT WEIGHING LESS THAN 100LBS NOT SHOWN ON PLAN. SEE MECHANICAL DRAWINGS.
14. WEIGHTS SHOWN ON DRAWING INCLUDE WEIGHTS OF UNIT, CURB, AND ALL ACCESSORIES. DO NOT PLACE UNIT WHEN OPERATING WEIGHT EXCEEDS THAT INDICATED. NOTIFY STRUCTURAL ENGINEER.
15. VERIFY LOCATIONS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL DRAWINGS.
16. FV = FIELD VERIFY
    (E) = EXISTING

EXISTING CONSTRUCTION NOTES

1. ALL DIMENSIONS AND ELEVATIONS TO EXISTING CONSTRUCTION ARE FOR REFERENCE ONLY. FIELD VERIFY DIMENSIONS AND ELEVATIONS PRIOR TO PREPARING SHOP DRAWINGS, FABRICATING MEMBERS (STRUCTURAL ITEMS), AND INSTALLATION.
2. ALL HOLES THROUGH EXISTING CONSTRUCTION SHALL BE CORE-DRILLED OR SAWCUT. DO NOT CUT ANY REINFORCING STEEL WHILE DRILLING INTO EXISTING CONCRETE. DO NOT TORCH CUT.
3. PRIOR TO SUBMITTING SHOP DRAWINGS TO ARCHITECT AND ENGINEER OF RECORD FOR APPROVAL, CONTRACTOR SHALL VERIFY DIMENSIONS BETWEEN NEW CONSTRUCTION AND EXISTING CONSTRUCTION, AND FORWARD TO FABRICATOR FOR THEIR REFERENCE.
4. NOTIFY STRUCTURAL ENGINEER IMMEDIATELY OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND STRUCTURAL DRAWINGS.
5. FOR ALL EXISTING CONSTRUCTION: DUE TO LIMITED OBSERVATION, OR NOT BEING ABLE TO VISIT THE EXISTING BUILDING DURING THE PREPARATION OF THESE DOCUMENTS, CASE ENGINEERING HAS ASSUMED THE EXISTING STRUCTURE IS IN LIKE-NEW CONDITION WITH NO CORROSION, DETERIORATION, OR DAMAGE, AND WAS CONSTRUCTED PER ANY ORIGINAL CONSTRUCTION DOCUMENTS PROVIDED (IF ANY EXIST). CONTRACTOR SHALL VERIFY THESE ASSUMPTIONS TO THE BEST OF THEIR ABILITY AND NOTIFY THE ENGINEER OF ANY CONCERNS, ISSUES, OR DISCREPANCIES.
6. CONTRACTOR TO VERIFY TOP OF ROOF SLOPE IS AT LEAST ¼" PER FOOT AFTER PLACEMENT OF ANY NEW LOADS APPLIED TO ROOF OR HUNG FROM ROOF FRAMING. LOADS FROM NEW OR REPLACED ITEMS MAY INCLUDE, BUT ARE NOT LIMITED TO, ROOF TOP MECHANICAL UNITS (RTU'S) AND ASSOCIATED DUCTWORK, HUNG HOODS, MAKE-UP AIR UNITS, CONDENSERS, COMPRESSORS, EXHAUST FANS, HUNG TRANSFORMERS, ROOFTOP GENERATOR(S), RE-ROOF MATERIALS, NEW CEILINGS, HUNG SIGNAGE, HUNG SPRINKLER PIPING, ETC. ALSO VERIFY THAT ALL ROOF DRAINS INCLUDING INTERIOR PRIMARY AND SECONDARY EMERGENCY OVERFLOW DRAINS AND ANY WALL SCUPPERS ARE CLEAR AND FREE-DRAINING. REPORT RESULTS IN WRITING TO ARCHITECT AND STRUCTURAL ENGINEER AS SOON AS PRACTICAL DURING THE CONSTRUCTION PROCESS.

EXCAVATION AND EARTHWORK NOTES

1. THE BEARING VALUE AND LATERAL EARTH PRESSURES OF THE SOILS IS PER REPORT BY: ASSUMED. THE FOUNDATION DESIGN IS BASED ON THE FOLLOWING NET ALLOWABLE BEARING AND LATERAL EARTH PRESSURES (ALLOWABLE BEARING PRESSURES MAY BE INCREASED BY 33 PERCENT FOR WIND AND SEISMIC LOADS):
   - SLAB BEARING 1,500 psf
2. ALL FOOTING EXCAVATIONS SHALL BE INSPECTED, PRIOR TO CONCRETE PLACEMENT, BY A SOILS ENGINEER TO VERIFY SUITABLE BEARING MATERIAL OF CAPACITY AS SPECIFIED.
3. NOTIFY THE OWNER'S REPRESENTATIVE WHEN ADDITIONAL EXCAVATION IS REQUIRED TO REACH SUITABLE BEARING MATERIAL.
4. THE SOILS ENGINEER SHALL CERTIFY IN WRITING THAT ALL FOUNDATIONS WERE PLACED ON SOIL WITH THE BEARING VALUE AS SPECIFIED.
5. WITHIN THE EXCAVATION AREA OF FOUNDATIONS, ALL VEGETATION, TOPSOIL, PREVIOUSLY PLACED FILL AND UNSUITABLE SOILS SHALL BE REMOVED. ALL FOOTINGS TO BEAR ON VIRGIN SOIL OR PROPERLY PLACED AND COMPACTED ENGINEERED FILL.
6. FOUNDATION DESIGN DOES NOT ACCOUNT FOR WINTER CONSTRUCTION. ANY UNENCLOSED / UNHEATED SPACES SHALL BE ADEQUATELY PROTECTED AGAINST FROST DURING WINTER CONSTRUCTION BY THE CONTRACTOR.
7. IF ANY SOFT SPOTS, OR AREAS QUESTIONABLE FOR ANY REASONS ARE ENCOUNTERED BY THE CONTRACTOR, ARCHITECT/ENGINEER SHALL BE NOTIFIED IMMEDIATELY SO THAT ANY REQUIRED ACTION MAY BE TAKEN PRIOR TO CONTINUATION OF CONSTRUCTION IN THAT AREA.

CONCRETE NOTES

1. ALL CONCRETE WORK INCLUDING FORMING, REINFORCING, MIXING, PLACING, FINISHING AND CURING SHALL BE DONE IN ACCORDANCE WITH THE ACI MANUAL OF CONCRETE PRACTICE INCLUDING "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE", ACI 318, AND "SPECIFICATIONS FOR STRUCTURAL CONCRETE", ACI 301 LATEST EDITIONS.
2. IT SHALL BE THE RESPONSIBILITY OF THE MIX DESIGN SUPPLIER TO PROPORTION MIXES APPROPRIATELY TO REACH THE REQUIRED PROPERTIES NOTED, AND SHALL BE APPROPRIATE FOR THEIR INTENDED USE. ADMIXTURES MEETING ASTM C494 ARE OPTIONAL. HOWEVER, AIR-ENTRAINING ADMIXTURES MEETING ASTM C260 SHALL BE USED FOR CONCRETE EXPOSED TO THE EXTERIOR OR FREEZE-THAW CYCLES.
3. CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS FOR EACH INTENDED USE ON THE PROJECT FOR REVIEW AND APPROVAL BY THE ENGINEER OF RECORD. CONTENTS OF THE MIX DESIGN SHALL COMPLY WITH, AND INCLUDE ALL INFORMATION REQUIRED BY, ACI 318, CHAPTER 5 (FOR 2011 AND EARLIER CODE EDITIONS), & CHAPTER 26 (FOR 2014 CODE EDITION). THIS INCLUDES, BUT IS NOT LIMITED TO NUMBER OF TESTS AND AGE OF TESTS INCLUDED IN THE MIX DESIGN REPORT.
4. ALL CONCRETE DENSITY SHALL BE NORMAL WEIGHT (145 pcf +/- 5) UNLESS OTHERWISE INDICATED.
5. FLY ASH ALLOWANCES:
   - 20% MAXIMUM BY WEIGHT OF CEMENTITIOUS IN FOOTINGS
   - 15% MAXIMUM BY WEIGHT OF CEMENTITIOUS MATERIAL IN SLABS
6. COORDINATE CONCRETE WORK WITH THAT OF OTHER TRADES TO ALLOW FOR SETTING OF SLEEVES, ACCESSORIES, ETC.
7. ALL REINFORCING STEEL, ANCHOR RODS, DOWELS, AND INSERTS SHALL BE WELL-SECURED IN POSITION PRIOR TO PLACING CONCRETE. DO NOT "WET SET" OR "FLOAT" INTO CONCRETE.
8. TEST CYLINDERS WILL BE REQUIRED, AND RECORDS OF RESULTS SHALL BE SUBMITTED TO ENGINEER OF RECORD. PROVIDE A MINIMUM OF (4) 6"x12" OR (5) 4"x8" CYLINDERS OF EACH MIX DESIGN FOR TESTING AT THE FREQUENCIES LISTED BELOW. TEST 1 AT 7 DAYS, 2 AT 28 DAYS FOR 6"x12" CYLINDERS, OR 3 AT 28 DAYS FOR 4"x8" CYLINDERS. KEEP 1 SPARE FOR FURTHER TESTING IF NEEDED. CYLINDERS SHALL BE TAKEN AND TESTED NO LESS THAN THE FOLLOWING: (SLUMP TESTS ARE RECOMMENDED)
   A. ONCE A DAY
   B. FOR EACH 150 CUBIC YARDS POURED
   C. FOR EACH 5,000 SQ. FT. OF SURFACE AREA POURED
9. CONSTRUCTION JOINTS IN CONCRETE INDICATED WITH A ROUGH, CLEAN SURFACE SHALL HAVE A 1/4" AVERAGE AMPLITUDE.
10. ALL COLD JOINTS SHALL BE ROUGHENED AND CLEANED PRIOR TO PLACING CONCRETE.
11. SLUMP: CONCRETE MIXES SHALL BE PROPORTIONED TO ACHIEVE A MAXIMUM SLUMP OF 8" FOR CONCRETE CONTAINING HIGH RANGE WATER REDUCING ADMIXTURE. 6" FOR CONCRETE CONTAINING A MID-RANGE WATER REDUCING ADMIXTURE. MIXES SHALL HAVE A WATER SLUMP OF 2"-3" PRE-ADDITIVE (3" TO 4" FOR CONCRETE RECEIVING A "DRY-SHAKE" HARDENER). MAXIMUM 4" WATER SLUMP FOR ALL OTHER CONCRETE NOT CONTAINING A WATER REDUCER.
12. DEPOSIT AND CONSOLIDATE CONCRETE FOR FLOORS AND SLABS IN A CONTINUOUS OPERATION, WITHIN LIMITS OF CONSTRUCTION JOINTS, UNTIL PLACEMENT OF A PANEL OR SECTION IS COMPLETE.
    A. CONSOLIDATE CONCRETE DURING PLACEMENT OPERATIONS, SO CONCRETE IS THOROUGHLY WORKED AROUND REINFORCEMENT AND OTHER EMBEDDED ITEMS AND INTO CORNERS.
    B. MAINTAIN REINFORCEMENT IN POSITION ON CHAIRS DURING CONCRETE PLACEMENT.
    C. SCREED SLAB SURFACES WITH A STRAIGHT EDGE AND STRIKE OFF TO CORRECT ELEVATIONS.
    D. UTILIZE A VIBRATORY SCREED FOR CONCRETE THAT WILL RECEIVE DIAMOND POLISH FINISH. KEEP VIBRATING SCREED MOVING CONTINUOUSLY ACROSS SURFACE. DO NOT STOP SCREED IN ANY ONE PLACE WHILE VIBRATING.
    E. SLOPE SURFACES UNIFORMLY TO DRAINS WHERE REQUIRED.
    F. BEGIN INITIAL FLOATING USING BULL FLOATS OR DARBIES TO FORM A UNIFORM AND OPEN-TEXTURED SURFACE PLANE BEFORE EXCESS BLEED WATER APPEARS ON THE SURFACE. DO NOT FURTHER DISTURB SLAB SURFACES BEFORE STARTING FINISHING OPERATIONS.
    G. THE USE OF HIGHWAY STRAIGHT EDGES OR "BUMP CUTTERS" ON CONCRETE SLABS TO BE POLISHED IS PROHIBITED.
13. CONCRETE TO BE POLISHED SHALL RECEIVE A HARD STEEL TROWEL FINISH WITH A MINIMUM OF (3) SEPARATE PASSES WITH POWER TROWEL TO ACHIEVE CLASS 5 FINISH AS DESCRIBED IN ACI 302R. HAND TROWELLING SHALL BE LIMITED TO ONLY THOSE AREAS NECESSARY. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
    A. INSPECT TROWELLING MACHINE AND REMOVE ACCUMULATED MORTAR PRIOR TO EACH PASS.
    B. FINISH SURFACE SHALL BE FREE OF TROWEL MARKS, BURN MARKS AND MOTTLING.
14. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
    A. AIR ENTRAINMENT IS NOT RECOMMENDED FOR SURFACES TO BE GIVEN A SMOOTH, DENSE, HARD-TROWELED FINISH. COORDINATE FINISH REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATIONS.
15. ALL SLABS-ON-GRADE SHALL MEET THE SPECIFIED OVERALL FLOOR FLATNESS (FF) AND OVERALL FLOOR LEVELNESS (FL) MEASUREMENTS PROVIDED BASED ON BUILDING USE. COORDINATE WITH THE ARCHITECT, EQUIPMENT MANUFACTURERS AND OWNER/TENANT FOR MORE STRINGENT SPECIFIED OVERALL REQUIREMENTS AND FOR ANY MINIMUM LOCAL VALUES UNDER SPECIFIC EQUIPMENT. TESTING SHALL BE DONE ON SLABS REQUIRED TO BE "FLAT" OR "SUPER FLAT" OR AT OWNER / TENANT REQUEST IN ACCORDANCE WITH ASTM E 1155 AND WITHIN 16 TO 72 HOURS OF THE FINAL TROWELING OPERATION.
    A. CONVENTIONAL: NONPUBLIC AREAS, MECHANICAL ROOMS, PARKING STRUCTURES
       - $F_F = 20$, $F_L = 15$
    B. MODERATELY FLAT: COMMERCIAL BUILDINGS
       - $F_F = 25$, $F_L = 20$
    C. FLAT: WAREHOUSES WITH STANDARD FORKLIFT TRAFFIC, SLAB UNDER THIN-SET TILE FLOORS
       - $F_F = 35$, $F_L = 25$
    D. SUPER FLAT: WAREHOUSES WITH ROBOTICS OR COMPLEX LOGISTIC RACKING SYSTEMS
       - $F_F > 60$, $F_L > 40$ (VERIFY VALUES)
16. ALL CONCRETE SHALL HAVE A MINIMUM 28-DAY COMPRESSIVE STRENGTH IN ACCORDANCE WITH THE FOLLOWING:
    A. AIR ENTRAINMENT IS NOT RECOMMENDED FOR SURFACES TO BE GIVEN A SMOOTH, DENSE, HARD-TROWELED FINISH. COORDINATE FINISH REQUIREMENTS WITH ARCHITECTURAL DRAWINGS AND/ OR SPECIFICATIONS.

REINFORCING STEEL NOTES

1. NON-WELDED STEEL BAR REINFORCING SHALL CONFORM TO ASTM A615, GRADE 60. WELDED STEEL BAR REINFORCING SHALL CONFORM TO ASTM A706.
2. WELDING OF REINFORCING STEEL SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN CONFORMANCE WITH AWS D1.1 USING E90 ELECTRODES FOR ASTM A615 REBAR, AND E80 ELECTRODES FOR ASTM A706 REBAR UNLESS OTHERWISE NOTED ON THE DRAWINGS.
3. WELDED WIRE REINFORCEMENT (WWR) SHALL BE SMOOTH WIRE PER ASTM A185 WITH MINIMUM YIELD STRENGTH, fy = 65 ksi, OR DEFORMED WIRE PER ASTM A497 WITH MINIMUM YIELD STRENGTH, fy = 70 ksi, UNLESS NOTED OTHERWISE.
4. MINIMUM CONCRETE COVER FOR REINFORCING STEEL IN CAST-IN-PLACE (NON-PRESTRESSED) CONCRETE SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED ON THE DRAWINGS:
   A. CONCRETE CAST AGAINST EARTH = 3"
   B. CONCRETE EXPOSED TO EARTH OR WEATHER:
      - #6 BAR AND LARGER = 2"
      - #5 BAR AND SMALLER = 1 1/2"
   C. CONCRETE NOT EXPOSED TO EARTH OR WEATHER (SLABS, WALLS, & JOISTS):
      - #14 BARS AND LARGER = 1 1/2"
      - #11 BARS AND SMALLER = 3/4"
   D. CONCRETE NOT EXPOSED TO EARTH OR WEATHER (BEAMS & COLUMNS):
      - PRIMARY REINFORCEMENT, TIES, STIRRUPS, & SPIRALS = 1 1/2"
5. ALL DETAILING, FABRICATION, AND ERECTION OF REINFORCING STEEL SHALL CONFORM TO THE LATEST EDITION OF ACI 315 (SP-66), DETAILS AND DETAILING OF CONCRETE REINFORCEMENT.

STRUCTURAL STEEL NOTES

1. BOLT HOLES SHALL BE 1/16" OVERSIZE UNLESS OTHERWISE NOTED ON THE DRAWINGS. FIELD BURNING OF BOLT HOLES SHALL NOT BE PERMITTED.
2. WELDING SHALL BE PERFORMED BY AWS QUALIFIED WELDERS IN CONFORMANCE WITH AWS D1.1, USING E70 SERIES ELECTRODES, UNLESS OTHERWISE NOTED ON THE DRAWINGS. ADDITIONALLY, WELDING IN LOS ANGELES, CA SHALL BE PERFORMED BY LADBS CERTIFIED WELDERS.
3. STRUCTURAL STEEL SHALL CONFORM TO THE FOLLOWING ASTM DESIGNATIONS AND GRADES:
   - ANGLES, CHANNELS, PLATES, BARS, AND RODS = A36, fy = 36ksi

TENSION LAP SPLICE LENGTH IN CONCRETE NOTES

1. FOR HORIZONTAL BARS, VALUES IN THE TABLE SHALL BE MULTIPLIED BY 1.3 WHERE MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST BELOW THE BAR.
2. WHERE CLEAR SPACING OF BARS BEING SPLICED IS AT LEAST 2 BAR DIAMETERS AND CLEAR COVER AT LEAST 1 BAR DIAMETER, USE CASE 1. FOR ALL OTHER BAR ARRANGEMENTS, USE CASE 2.
3. VALUES IN THE TABLE ARE BASED ON 60ksi REBAR. FOR OTHER REBAR YIELD STRENGTHS, MULTIPLY VALUES IN THE TABLE BY THE SPECIFIED YIELD STRENGTH DIVIDED BY 60.
4. WHERE BARS OF DIFFERENT SIZES ARE SPLICED, PROVIDE THE LAP LENGTH OF THE LARGER BAR.
5. WELDED WIRE REINFORCEMENT (DEFORMED OR PLAIN WIRE) SHALL BE LAPPED ONE FULL MESH SQUARE PLUS 2 INCHES MINIMUM, BUT NOT LESS THAN 12 INCHES.
6. REBAR IN ALL CONCRETE MEMBERS SHALL BE SPLICED IN ACCORDANCE WITH "TENSION LAP SPLICE LENGTH" TABLE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

TENSION LAP SPLICE LENGTH IN CONCRETE - 60 KSI REBAR TABLE (INCHES)

f'c =	3,500psi	3,500psi	4,000psi	4,000psi	4,500psi	4,500psi	5,000psi	5,000psi
BAR SIZE	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2	CASE 1	CASE 2
#3	20	30	19	28	18	27	17	25
#4	27	40	25	37	24	35	23	34
#5	33	50	31	47	30	44	28	42
#6	40	60	37	56	35	53	34	50

DEVELOPMENT LENGTH OF STANDARD HOOKS IN CONCRETE NOTES

1. VALUES IN TABLE ARE BASED ON 60ksi REBAR. FOR OTHER REBAR YIELD STRENGTHS, MULTIPLY VALUES IN THE TABLE BY THE SPECIFIED YIELD STRENGTH DIVIDED BY 60.
2. SEE ACI 318 SECTION 12.5 FOR ALLOWABLE REDUCTIONS IN DEVELOPMENT LENGTH. IT SHALL NOT BE LESS THAN 8 BAR DIAMETERS OR 6 INCHES.
3. HOOKED BARS ARE NOT CONSIDERED EFFECTIVE IN DEVELOPING BARS IN COMPRESSION.
4. REBAR IN ALL CONCRETE MEMBERS SHALL HAVE STANDARD HOOKS WHERE SHOWN ON SECTIONS IN ACCORDANCE WITH "DEVELOPMENT LENGTH OF STANDARD HOOKS IN TENSION" TABLE, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.

DEVELOPMENT LENGTH OF STANDARD HOOKS IN CONCRETE - 60 ksi...

BAR SIZE	f'c = 4,000 psi	f'c = 4,500 psi	f'c = 5,000 psi
#3	8	7	7
#4	10	9	9
#5	12	12	11
#6	15	14	13

CONCRETE TABLE

INTENDED USE	EXPOSURE CLASS	MIN 28 DAY STRENGTH (psi)	MAX WATER-CEMENT RATIO	% TOTAL AIR LIMITS	% MAX SHRINKAGE @ 28 DAYS
INTERIOR SLAB ON GRADE (1)	F0	4,000	0.50	3	0.04
ALL CONCRETE NOT OTHERWISE SPECIFIED	F3	5,000	0.40	4.5 TO 7.5	0.05

SPECIAL INSPECTIONS

1. REFER TO THE SPECIAL INSPECTION TABLES FOR THE LIST OF ELEMENTS OF CONSTRUCTION THAT SHALL REQUIRE SPECIAL INSPECTION. THIS SHALL BE CONSIDERED A GUIDE, AND THE CONTRACTOR AND INSPECTOR SHALL REFER TO THE IBC FOR COMPLETE REQUIREMENTS, QUALIFICATIONS, EXCEPTIONS, AND SUBMITTALS. REFER TO IBC CHAPTER 17. THE OWNER SHALL BE RESPONSIBLE FOR EMPLOYING THE SPECIAL INSPECTION AGENCY. ANY "OBSERVATIONS" BY THE EOR WILL NOT BE TO PERFORM SPECIAL INSPECTIONS AND SHALL NOT BE INTERPRETED AS SUCH.
2. COPIES OF ALL INSPECTION REPORTS THAT REPORT COMPLIANCE SHALL BE SUBMITTED TO THE ARCHITECT OF RECORD, STRUCTURAL ENGINEER OF RECORD, AND BUILDING INSPECTOR WITHIN 7 CALENDAR DAYS OF COMPLETION OF THAT PORTION OF WORK. A MINIMUM OF ONE (1) PROGRESS REPORT PER MONTH FOR EACH TYPE OF CONSTRUCTION REQUIRING SPECIAL INSPECTION SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER OF RECORD.
3. SPECIAL INSPECTOR SHALL INFORM ENGINEER OF RECORD IMMEDIATELY OF NON-COMPLIANCE WITH CONSTRUCTION DOCUMENTS OR APPROVED SUBMITTALS. CONTACT ENGINEER OF RECORD THE SAME DAY NON-COMPLIANCE IS DISCOVERED AND FOLLOW UP WITH AN OFFICIAL REPORT WITHIN 2 BUSINESS DAYS.
4. THE SPECIAL INSPECTIONS IDENTIFIED ON THE PLANS ARE IN ADDITION TO, AND NOT A SUBSTITUTE FOR THOSE INSPECTIONS REQUIRED TO BE PERFORMED BY A BUILDING INSPECTOR.
5. SPECIAL INSPECTIONS ARE NOTED AS EITHER "CONTINUOUS" OR "PERIODIC". A "CONTINUOUS" INSPECTION REQUIRES THE PRESENCE OF A QUALIFIED INSPECTOR IN THE VICINITY OF THE WORK BEING PERFORMED FOR 100% OF THAT WORK. A "PERIODIC" INSPECTION REQUIRES PART-TIME OBSERVATION OF THE WORK BEING PERFORMED. THE INSPECTOR SHALL ALSO OBSERVE THE FINAL CONDITION OF THE WORK BEFORE IT IS CLOSED FROM VIEW.
6. WHEN WORK IN MORE THAN ONE CATEGORY OF WORK REQUIRING SPECIAL INSPECTION IS TO BE PERFORMED SIMULTANEOUSLY, OR THE GEOGRAPHIC LOCATION OF THE WORK IS SUCH THAT IT CANNOT BE CONTINUOUSLY OBSERVED, IT SHALL BE THE RESPONSIBILITY OF THE AGENT TO EMPLOY A SUFFICIENT NUMBER OF SPECIAL INSPECTORS TO ASSURE THAT ALL WORK IS CONTINUOUSLY INSPECTED IN ACCORDANCE WITH THOSE PROVISIONS.

SPECIAL INSPECTIONS - SOILS AND FOUNDATIONS TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
SOILS	PERIODIC	VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY; VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL; PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS; PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY
SOILS	CONTINUOUS	VERIFY USE OF PROPER MATERIALS, DENSITIES, LIFT THICKNESSES, AND COMPACTION OF FILL; VERIFY MATERIALS AND PROCEDURES COMPLY WITH THE GEOTECHNICAL REPORT / SOILS ENGINEER

SPECIAL INSPECTIONS - CONCRETE TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
REINFORCEMENT	PERIODIC	INSPECT REINFORCEMENT AND PLACEMENT; VERIFY CONFORMANCE WITH CONSTRUCTION DOCUMENTS, AND THAT BARS ARE FREE FROM MATERIALS THAT COULD PREVENT BOND, ARE ADEQUATELY LAPPED, SPLICED, TIED, AND SUPPORTED
MIX DESIGN	PERIODIC	VERIFY USE OF APPROVED MIX DESIGN
SAMPLING AND TESTING	CONTINUOUS	PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTING; PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE TEMPERATURE OF THE CONCRETE
CONCRETE PLACEMENT	PERIODIC	VERIFY MAINTENANCE OF CURING TEMPERATURE AND TECHNIQUES
CONCRETE PLACEMENT	CONTINUOUS	CONCRETE PLACEMENT
ANCHOR INSTALLTION	PERIODIC	INSPECT POST-INSTALLED MECHANICAL AND ADHESIVE ANCHORS NOT OTHERWISE SPECIFIED
ANCHOR INSTALLTION	CONTINUOUS	INSPECT POST-INSTALLED MECHANICAL AND ADHESIVE ANCHORS PER THE REQUIREMENTS IN THEIR RESPECTIVE ICC-ES REPORTS
CONCRETE PLACEMENT	PERIODIC	INSPECT FORMWORK FOR SHAPE, LOCATION, AND DIMENSIONS OF CONCRETE MEMBER BEING FORMED

SPECIAL INSPECTIONS - STEEL TABLE

ITEM	INSPECTION FREQUENCY	SCOPE
WELDING	PERIODIC	SINGLE PASS FILLET WELDS NOT GREATER THAN 5/16"
STRUCTURAL DETAILS	PERIODIC	INSPECT STEEL FRAME FOR COMPLIANCE WITH CONSTRUCTION DOCUMENTS FOR MEMBER SIZES AND LOCATIONS, BRACING, AND CONNECTIONS

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Issue Record:

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1	09/09/24	OWNER CHANGES
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3	11/06/24	BUILDING COMMENTS

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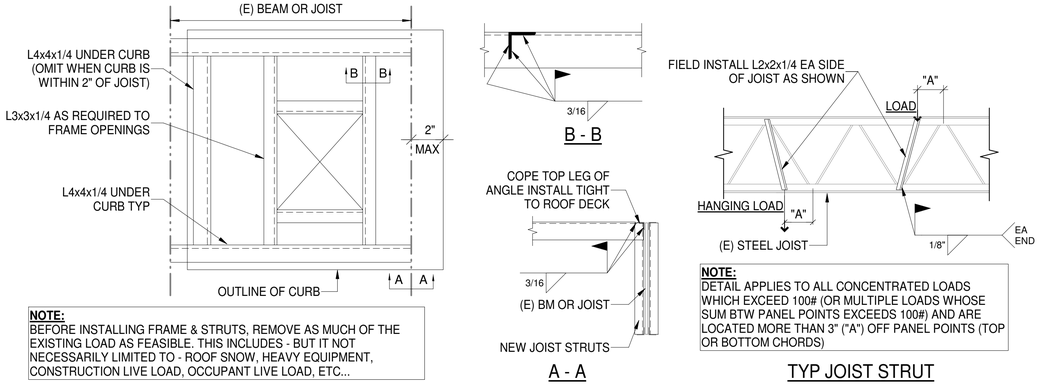
Checked: DLC

Project No.: LDG-NY-03-24

Contents: GENERAL NOTES

S1.1

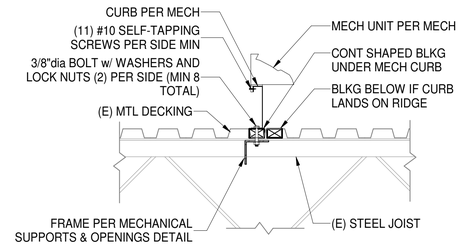


NOTE:
BEFORE INSTALLING FRAME & STRUTS, REMOVE AS MUCH OF THE EXISTING LOAD AS FEASIBLE. THIS INCLUDES - BUT IT NOT NECESSARILY LIMITED TO - ROOF SNOW, HEAVY EQUIPMENT, CONSTRUCTION LIVE LOAD, OCCUPANT LIVE LOAD, ETC...

NOTE:
DETAIL APPLIES TO ALL CONCENTRATED LOADS WHICH EXCEED 100# (OR MULTIPLE LOADS WHOSE SUM BTW PANEL POINTS EXCEEDS 100#) AND ARE LOCATED MORE THAN 3" ("A") OFF PANEL POINTS (TOP OR BOTTOM CHORDS)

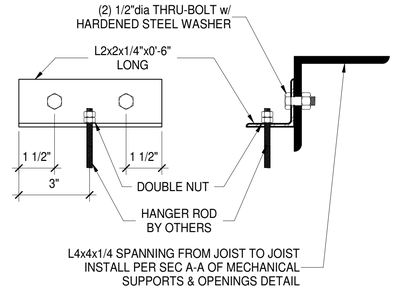
A S1.2 TYPICAL MECHANICAL SUPPORTS & OPENINGS - EXISTING CONSTRUCTION

N.T.S.



B S1.2 TYPICAL CURB ATTACHMENT DETAIL

N.T.S.



C S1.2 TYPICAL HANGER ROD DETAIL

N.T.S.

NOTES:
1. SAW-CUT CONTROL JOINTS TO BE CUT AS SOON AS SURFACE WILL NOT BE TORN, ABRADED, OR OTHERWISE DAMAGED BY CUTTING ACTION. (WITHIN 8 TO 10 HOURS OF BURNISHING)
2. SPACE CONTROL JOINTS AT 15'-0" MAX. FOR INTERIOR SLABS UNO ON PLANS.
3. CONSTRUCTION JOINTS TO BE USED AT END OF EACH POUR.

D S1.2 TYP SLAB-ON-GRADE CONSTRUCTION JOINT DETAILS

N.T.S.

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Contents:
TYPICAL DETAILS

S1.2

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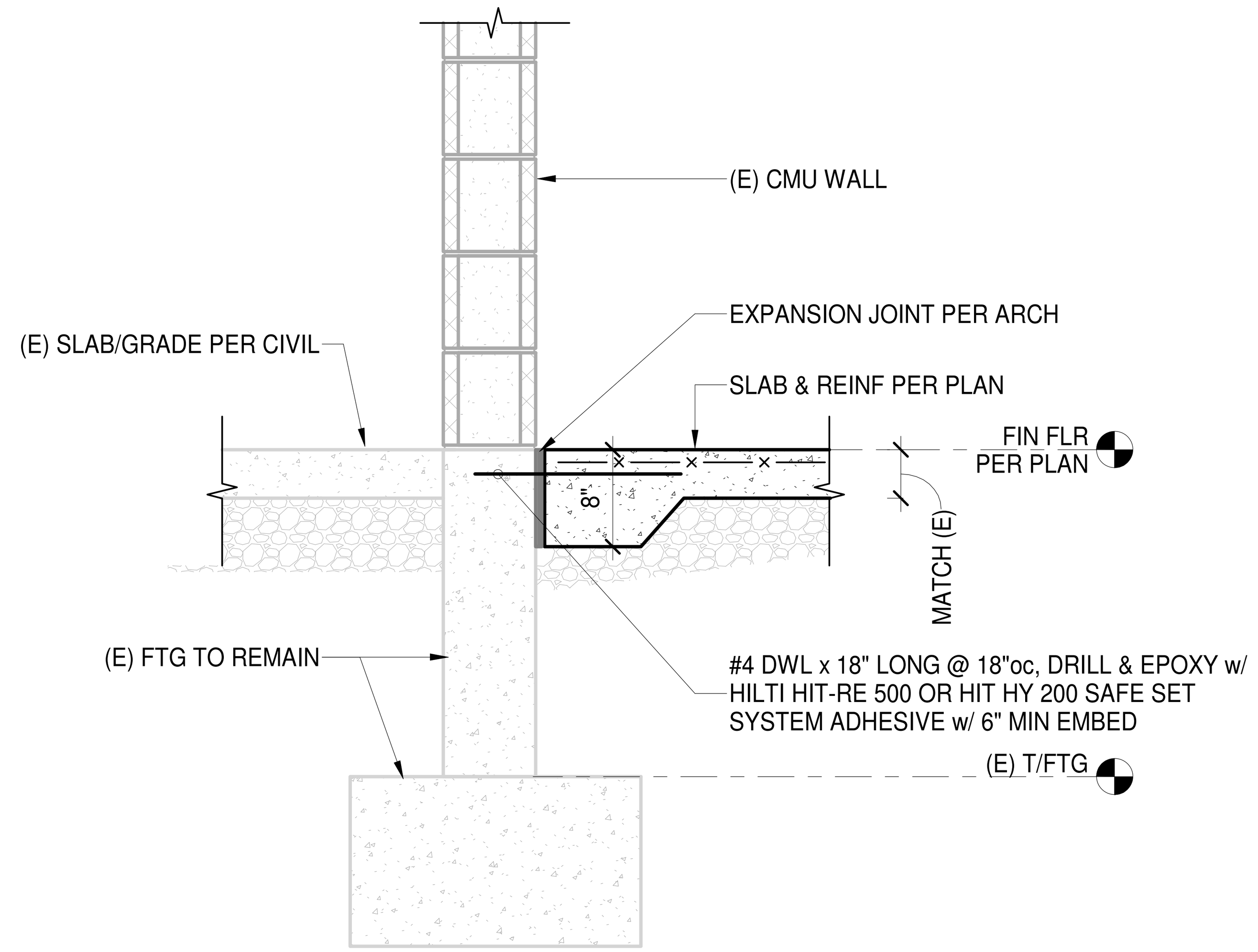
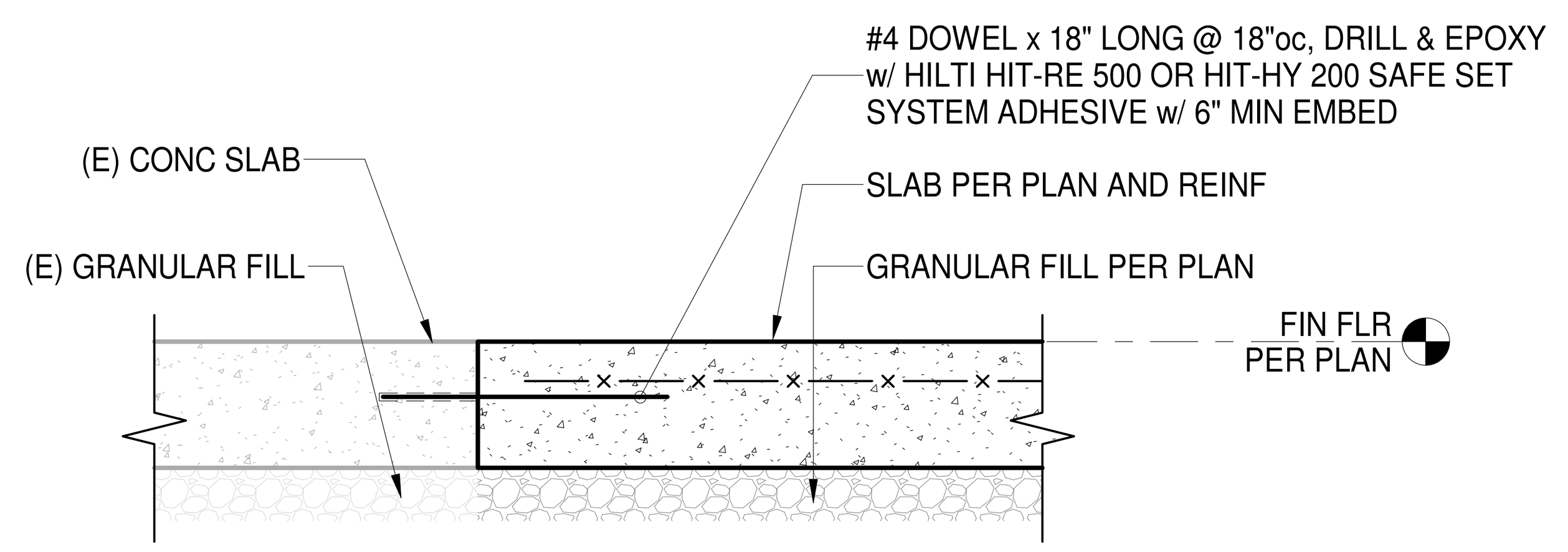
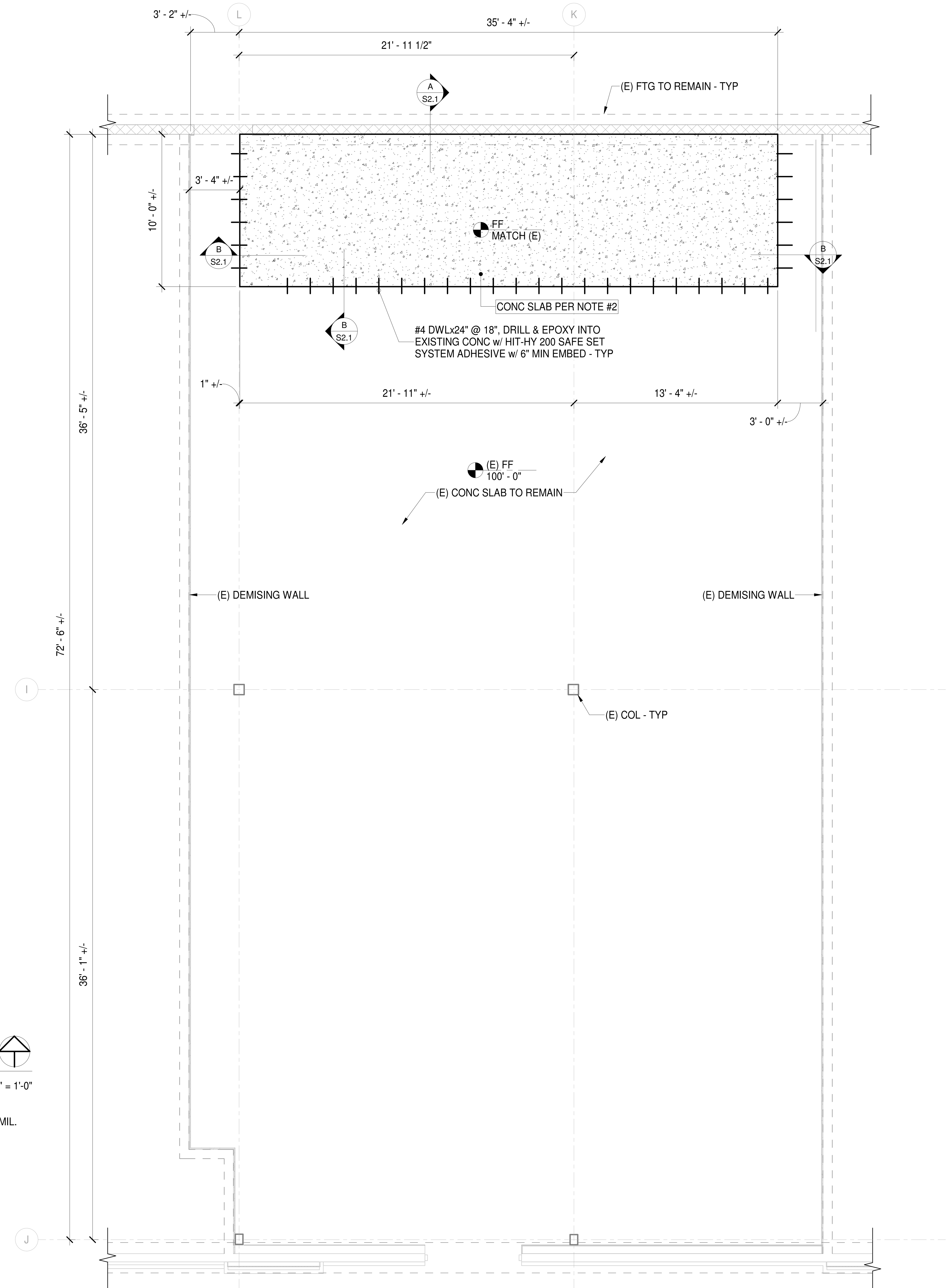


A
S2.1
FOUNDATION SECTION
1" = 1'-0"



B
S2.1
TYP SLAB REPAIR DETAIL
N.T.S.



FOUNDATION PLAN

PLAN NOTES

SCALE: 1/4" = 1'-0"

1. SEE SHEETS S1.1 - S1.2 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. MATCH EXISTING CONCRETE SLAB THICKNESS AND REINFORCE WITH WITH ONE LAYER OF 6x6 - W1.4xW1.4 WWR ON 10 MIL. POLY VAPOR BARRIER OVER 6" MINIMUM (COMPACTED FREE-DRAINING GRANULAR MATERIAL. REINFORCEMENT TO BE LOCATED IN THE MIDDLE OF THE SLAB.
3. SEE ARCHITECTURAL DRAWINGS FOR STAIRS, DIMENSIONS, SECTIONS, AND ELEVATIONS NOT SHOWN HEREON.
4. COORDINATE SIZE AND LOCATION OF ROUGH OPENINGS IN FLOOR OR WALLS WITH ARCHITECTURAL DRAWINGS.
5. ALL ELEVATIONS ARE REFERENCED FROM FINISHED MAIN FLOOR = 100'-0"

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FOUNDATION PLAN

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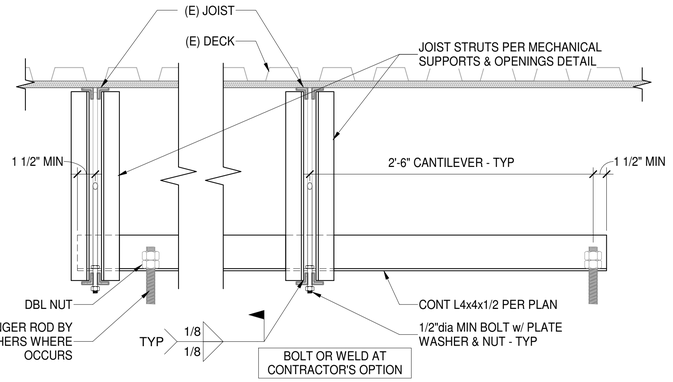
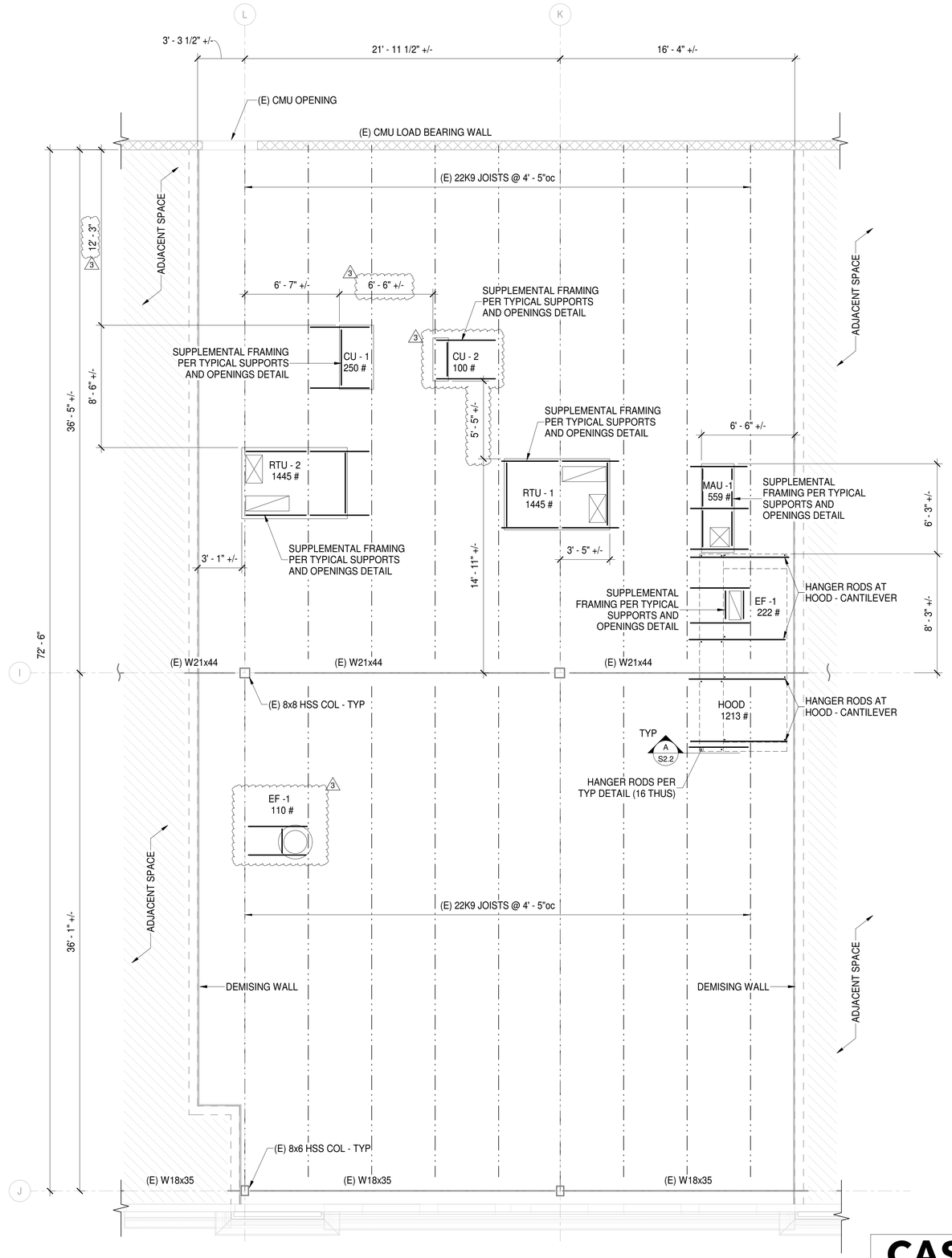
S2.1



A S2.2 **TYPICAL HANGER ROD DETAIL w/ CANTILEVERED ANGLE**

N.T.S.



PARTIAL EXISTING ROOF FRAMING PLAN

SCALE: 1/4" = 1'-0"

PLAN NOTES:

1. SEE SHEET S1.1 - S1.2 FOR GENERAL NOTES AND TYPICAL DETAILS.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO BEGINNING CONSTRUCTION.
3. REFERENCE MECHANICAL DRAWINGS FOR EXACT WEIGHTS AND LOCATIONS OF MECHANICAL EQUIPMENT.
4. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS, SECTIONS, AND ELEVATIONS NOT SHOWN HEREON.
5. ALL NEW AND EXISTING MECHANICAL EQUIPMENT MOUNTED TO OR HUNG FROM EXISTING STRUCTURE THAT HAS BEEN ACCOUNTED FOR IN STRUCTURAL CAPACITY ANALYSIS IS SHOWN ON FRAMING PLAN. GENERAL CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER OF RECORD IMMEDIATELY IF EQUIPMENT EXISTS THAT IS NOT SHOWN ON PLAN.

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Contents: ROOF FRAMING PLAN

S2.2

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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 OWNER).

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 OWNER 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 OWNER, 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. DIFFUSERS:
   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.

B. WALL AND CEILING REGISTERS:
   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: COUNTERSUNK SCREW.

C. WALL AND CEILING GRILLES:
   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: COUNTERSUNK SCREW OR LAY IN DEPENDING LOCATION.

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. GENRAL 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 SHEET G000 FOR THE PREVAILING CODES.

C. CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.

D. COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.

E. DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.

F. DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.

G. PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.

H. COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.

I. UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.

J. REPLACE AIR FILTERS WITH NEW, CLEAN MERV 8 AIR FILTERS AT TURNOVER.

K. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

L. INSTALL LABELING CALLED FOR IN THE MECHANICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

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

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
DUCT	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED GENERAL EXHAUST	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST.	RECT. 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.)

HVAC ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
CD	CONDENSATE
CU	CONDENSING UNIT
EF	EXHAUST FAN
EXT'G	EXISTING
HD	HOOD
MUA	MAKEUP AIR UNIT
OPD	OPPOSED BLADE DAMPER
RG	RETURN GRILLE
RTU	ROOFTOP UNIT
SR	SUPPLY REGISTER
VSC	VARIABLE SPEED CONTROL
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
TDC	TENANT DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

- CEILING SUPPLY DIFFUSER
- CEILING RETURN DIFFUSER
- SUPPLY REGISTER
- RETURN REGISTER
- FLEXIBLE DUCT
- MITERED CORNER WITH TURNING VANES
- DUCTWORK INTERNAL FREE DIMENSIONS
- RECTANGULAR TO ROUND TRANSITION
- GREASE DUCT CLEANOUT
- MITERED CORNER WITHOUT TURNING VANES
- T — GRIDPOINT THERMOSTAT
- S — GRIDPOINT ZONE SENSOR MODULE
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- XX-# — EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION.
- GRILL, REGISTER, OF DIFFUSER TAG: CD1 — TAG; XXX — NECK SIZE / AIRFLOW (CFM)

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Contents: HVAC SPECIFICATIONS

M010

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HVAC PLAN NOTES

1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2. PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3. 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.
4. 26/18 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. 26/18 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 26/18 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. 16/16 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9. 24/10 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 8/6 DUCT UP THROUGH ROOF TO EF-2.
11. 24/10 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.
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 84" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO RTU-1 THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO RTU-2 THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO RTU-1 THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO RTU-2 THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 84" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.

2

HVAC EQUIPMENT OPERATIONS NOTES:

1. WHEN USED FOR HEATING-COOLING CONTROL, PROVIDE DEADPAND OF AT LEAST 5 DEG. F.
2. PROVIDE AUTOMATIC SETBACK CONTROL DURING BUILDING OFF-HOURS.
3. PROVIDE AUTOMATIC CONTROL TO OPERATE EQUIPMENT BASED ON 7-DAY SCHEDULE WITH A NON-VOLATILE MEMORY.

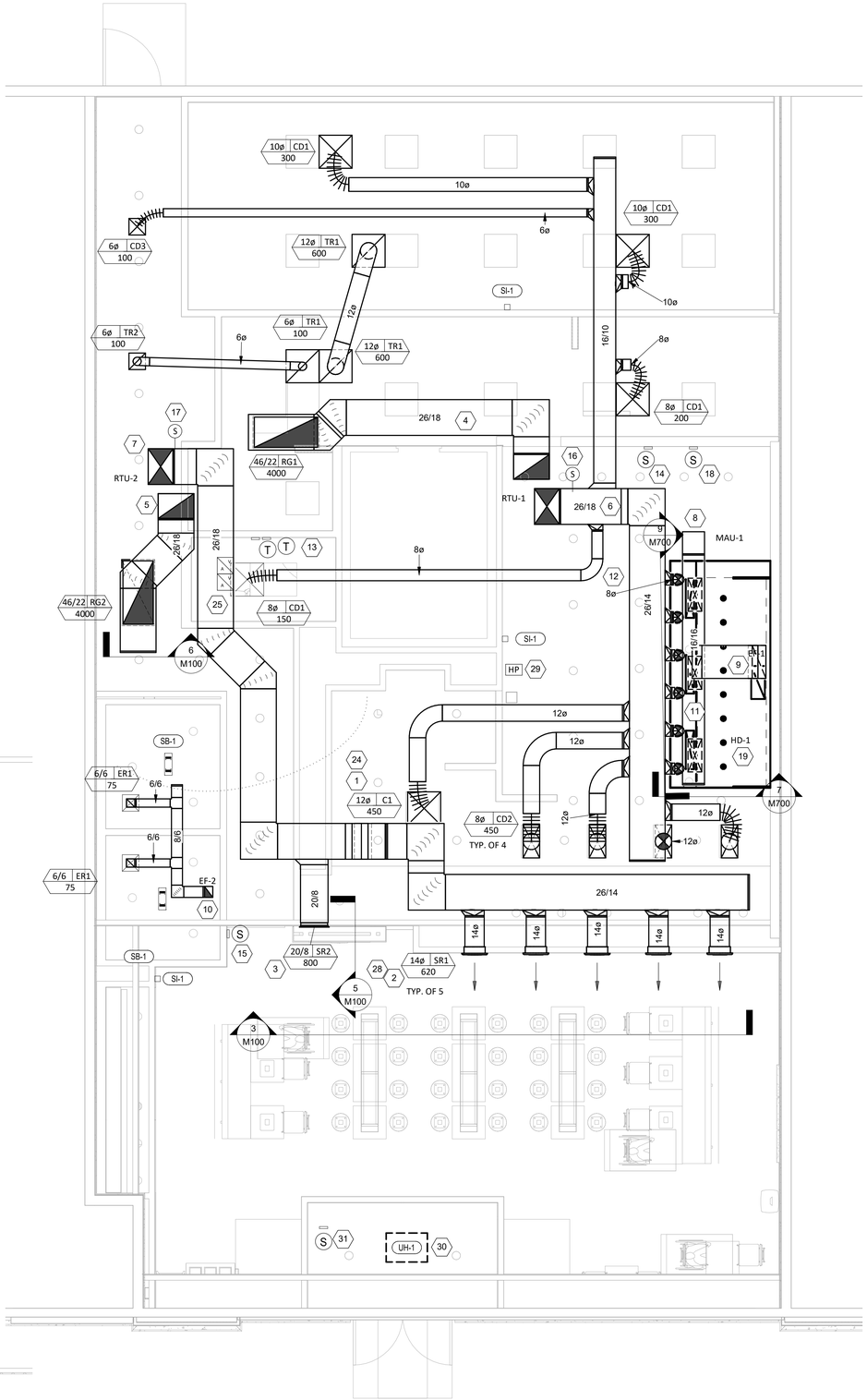
HVAC PLAN NOTES

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 AND 4/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.
20. INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
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.
29. PROVIDE HOOD PULL STATION. MOUNT ON WALL AND MAKE VISIBLE.
30. PROVIDE CEILING MOUNTED ELECTRIC UNIT HEATER (UH-1). SEE SCHEDULE ON SHEET M600.
31. PROVIDE SENSOR FOR ELECTRIC UNIT HEATER (UH-1). MOUNT ON CEILING AWAY FROM UNIT HEATER AND EXTERIOR WALL.

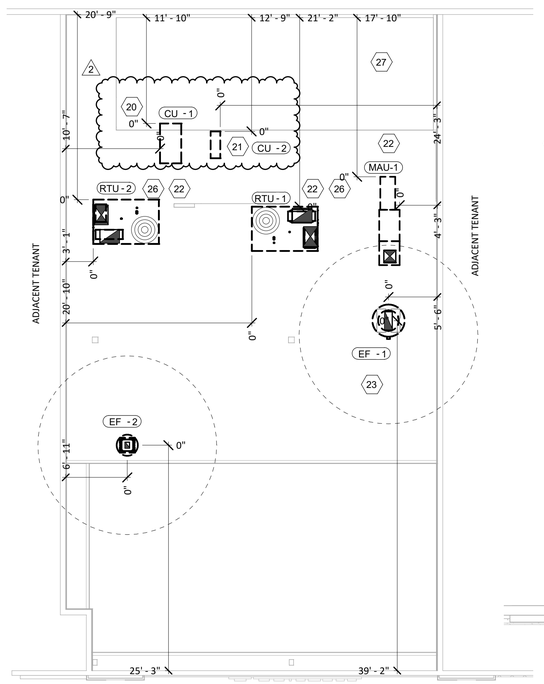
2

EXHAUST NOTE:

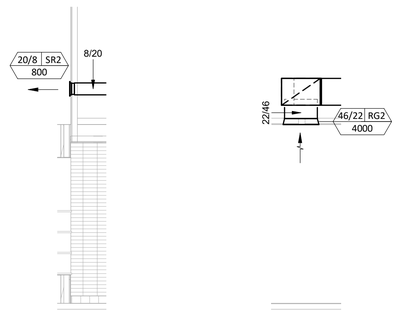
PROVIDE AUTOMATIC DAMPERS FOR EXHAUST AIR FANS TO CLOSE WHEN THE SYSTEM/SPACE IS NOT IN USE.



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



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



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

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

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

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CMG 5494

Contents:
HVAC PLAN

M100

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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 DU180HFA EXHAUST FAN	2,550 CFM	1.45 in-wg	183 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	DIRECT DRIVE DU180HFA UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB
EF-2	DOWNBLAST RESTROOM EXHAUST FAN	150 CFM	0.60 in-wg	100 lb	0.18 hp	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	DIRECT DRIVE DOWNBLAST RESTROOM EXHAUST FAN FURNISHED WITH INTEGRAL DISCONNECT, SPEED CONTROL, BACKDRAFT DAMPER, AND CURB

VIROGUARD SCHEDULE

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

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	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	208/1/60	WCS	GC	RUSSELL DOE	RFO060M4SDAALNT	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9F	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	TEMP RISE		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	102,095 Btu/h	93,927 Btu/h	69 °F	508 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
					DUCT COLLARS						MAU PLENUM				AC PLENUM										
												DUCT COLLARS				DUCT COLLARS									
			AIRFLOW	E.S.P.	NO.	WIDTH	LENGTH	LENGTH	WIDTH	LENGTH	WIDTH	AIRFLOW	NO.	WIDTH	LENGTH	AIRFLOW	NO.	DIAMETER					MANUFACTURER	MODEL	
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600 °F	2,550 CFM	0.96 in-wg	1	10"	24"	13' - 9"	4' - 3"	54"	19"	1,300 CFM	3	6"	2' - 4"	696 CFM	8	8"	8	1,029 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH QUARTER END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW			NET COOLING CAPACITY					HEATING CAPACITY			NUMBER OF		REFRIGERANT	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
									EAT		COND.														
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	DB	WB	EAT	INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE		MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
RTU-1	KITCHEN ROOFTOP UNIT	10 ton	12	4,000 CFM	500 CFM	1.0 in-wg	118,000 Btu/h	91,000 Btu/h	80 °F	67 °F	80 °F	250,000 Btu/h	205,000 Btu/h	65 °F	2	2	R-410A	1,445 lb	60 A	58 A	208/3/60	CMG	GC	CARRIER	48FCFN12	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, HOT GAS REHEAT & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10 ton	12	4,000 CFM	1,000 CFM	1.0 in-wg	118,000 Btu/h	91,000 Btu/h	80 °F	67 °F	80 °F	250,000 Btu/h	205,000 Btu/h	65 °F	2	2	R-410A	1,445 lb	60 A	58 A	208/3/60	CMG	GC	CARRIER	48FCFN12	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, HOT GAS REHEAT & UNIT-MOUNTED CONVENIENCE RECEPTACLE

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	3,200 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,950 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	4,000 CFM	3,500 CFM	0 CFM	5000 CFM
RTU-2	4,000 CFM	3,000 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

ELECTRIC UNIT HEATER SCHEDULE

TAG	DESCRIPTION	MOUNTING	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			POWER	V/P/H			MANUFACTURER	MODEL	
UH-1	CEILING-MOUNTED UNIT HEATER	CEILING	3 KW	208/1/60	GC	GC	INDEECO	931U04000V	

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.

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	
RG3	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	BLACK	WALL	GC	GC	AIR CONCEPTS	M-AD-SR1	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	DUCT-MOUNTED WALL GRILL	20" X 8"	ALUMINUM	BLACK	WALL	GC	GC	AIR CONCEPTS	RGDD-F	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD

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10/17/2024

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Issue Record:
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Revisions:

Drawn: IAF
Checked: JV

Project No.
CMG 5494

Contents:
MECHANICAL SCHEDULES

M600

CASE Engineering Inc.
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CERTIFICATE OF AUTHORITY NO. 0016873

System Checksums

By Case

System - 001 **Single Zone**

COOLING COIL PEAK

Peaked at Time: Mo/Hr: 8 / 16
Outside Air: OADB/WB/HR: 87 / 73 / 103

	Space Sens. + Lat. Btu/h	Plenum Sens. + Lat Btu/h	Net Total Btu/h	Percent Of Total (%)
Envelope Loads				
Skylite Solar	0	0	0	0
Skylite Cond	0	0	0	0
Roof Cond	4,062	0	4,062	2
Glass Solar	55,244	0	55,244	29
Glass/Door Cond	5,432	0	5,432	3
Wall Cond	5,327	0	5,327	3
Partition/Door	0		0	0
Floor	0		0	0
Adjacent Floor	0.00	0.00	0.00	0.00
Infiltration	0		0	0
Sub Total ==>	70,065	0	70,065	37
Internal Loads				
Lights	3,638	910	4,548	2
People	23,100	0	23,100	12
Misc	54,574	0	54,574	29
Sub Total ==>	81,312	910	82,222	44
Ceiling Load	0	0	0	0
Ventilation Load	0	0	33,361	18
Adj Air Trans Heat	0		0	0
Dehumid. Ov Sizing			0	0
Ov/Undr Sizing	2		2	0
Exhaust Heat		-109	-109	0
Sup. Fan Heat			3,332	2
Ret. Fan Heat		0	0	0
Duct Heat Pkup		0	0	0
Underflr Sup Ht Pkup			0	0
Supply Air Leakage		0	0	0
Grand Total ==>	151,378	800	188,872	100.00

CLG SPACE PEAK

Mo/Hr: Sum of
OADB: Peaks

	Space Sensible Btu/h	Percent Of Total (%)
Envelope Loads		
Skylite Solar	0	0
Skylite Cond	0	0
Roof Cond	2,921	2
Glass Solar	62,372	44
Glass/Door Cond	3,439	2
Wall Cond	4,745	3
Partition/Door	0	0
Floor	0.00	0
Adjacent Floor	0.00	0.00
Infiltration	0	0
Sub Total ==>	73,476	51
Internal Loads		
Lights	3,638	3
People	11,550	8
Misc	54,574	38
Sub Total ==>	69,762	49
Ceiling Load	0	0
Ventilation Load	0	0
Adj Air Trans Heat	0	0
Ov/Undr Sizing		
Exhaust Heat	2	0
Grand Total ==>	143,240	100.00

HEATING COIL PEAK

Mo/Hr: Heating Design
OADB: 6

	Space Peak Space Sens Btu/h	Coil Peak Tot Sens Btu/h	Percent Of Total (%)
Envelope Loads			
Skylite Solar	0	0	0.00
Skylite Cond	0	0	0.00
Roof Cond	-8,121	-8,121	7.86
Glass Solar	0	0	0.00
Glass/Door Cond	-28,519	-28,519	27.59
Wall Cond	-11,511	-11,511	11.14
Partition/Door	0	0	0.00
Floor	0	0	0.00
Adjacent Floor	0.00	0.00	0.00
Infiltration	0	0	0.00
Sub Total ==>	-48,151	-48,151	46.59
Internal Loads			
Lights	0	0	0.00
People	0	0	0.00
Misc	0	0	0.00
Sub Total ==>	0	0	0.00
Ceiling Load	0	0	0.00
Ventilation Load	0	-55,203	53.41
Adj Air Trans Heat	0	0	0
Ov/Undr Sizing	0	0	0.00
Exhaust Heat		0	0.00
OA Preheat Diff.		0	0.00
RA Preheat Diff.		0	0.00
Additional Reheat		0	0.00
Underflr Sup Ht Pkup		0	0.00
Supply Air Leakage		0	0.00
Grand Total ==>	-48,151	-103,354	100.00

TEMPERATURES

	Cooling	Heating
SADB	55.0	76.7
Ra Plenum	75.0	70.0
Return	75.1	70.0
Ret/OA	76.5	62.3
Fn MtrTD	0.1	0.0
Fn BldTD	0.1	0.0
Fn Frict	0.3	0.0

AIRFLOWS

	Cooling	Heating
Diffuser	6,615	6,615
Terminal	6,615	6,615
Main Fan	6,615	6,615
Sec Fan	0	0
Nom Vent	795	795
AHU Vent	795	795
Infil	0	0
MinStop/Rh	0	0
Return	6,615	6,615
Exhaust	795	795
Rm Exh	0	0
Auxiliary	0	0
Leakage Dwn	0	0
Leakage Ups	0	0

ENGINEERING CKS

	Cooling	Heating
% OA	12.0	12.0
cfm/ft²	2.48	2.48
cfm/ton	420.26	
ft²/ton	169.32	
Btu/hr·ft²	70.87	-38.78
No. People	42	

COOLING COIL SELECTION

	Total Capacity ton	Total Capacity MBh	Sens Cap. MBh	Coil Airflow cfm	Enter DB °F	Enter WB °F	Enter HR gr/lb	Leave DB °F	Leave WB °F	Leave HR gr/lb
Main Clg	15.7	188.9	154.0	6,615	76.5	62.6	65.0	54.6	52.7	58.0
Aux Clg	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Opt Vent	0.0	0.0	0.0	0	0.0	0.0	0.0	0.0	0.0	0.0
Total	15.7	188.9								

AREAS

	Gross Total ft²	Glass ft²	Glass (%)
Floor	2,665		
Part	0		
Int Door	1		
ExFlr	0		
Roof	2,665	0	0
Wall	3,009	890	30
Ext Door	21	0	0

HEATING COIL SELECTION

	Capacity MBh	Coil Airflow cfm	Ent °F	Lvg °F
Main Htg	-103.4	6,615	62.3	76.7
Aux Htg	0.0	0	0.0	0.0
Preheat	0.0	0	0.0	0.0
Humidif	0.0	0	0.0	0.0
Opt Vent	0.0	0	0.0	0.0
Total	-103.4			

Project Name: Rouge
Dataset Name: CHIP-EANY.TRC

TRACE® 700 v6.3.5 calculated at 07:13 AM on 10/10/2024
Alternative - 1 System Checksums Report Page 1 of 1

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Issue Record:
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Revisions:
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Checked: Checker

Project No.
CMG 5494

Contents: 2
MECHANICAL CALCULATIONS

M601

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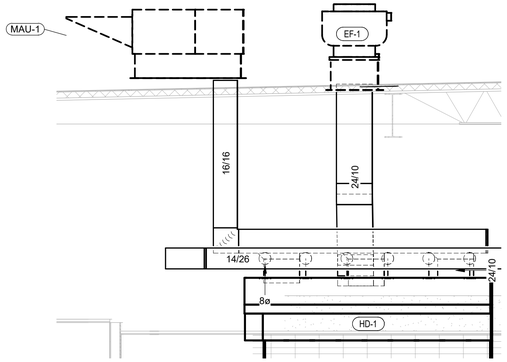
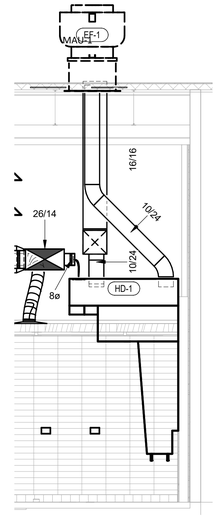
CERTIFICATE OF AUTHORITY NO. 0016873



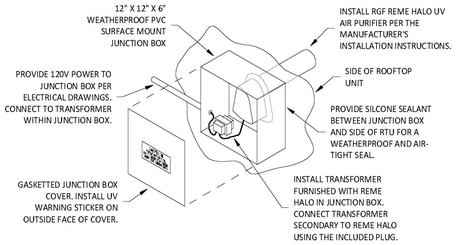
9 M700 HOOD ELEVATION

1/4" = 1'-0"



7 M700 DUCT SECTION AT HOOD

1/4" = 1'-0"



INSTALLATION LOCATION

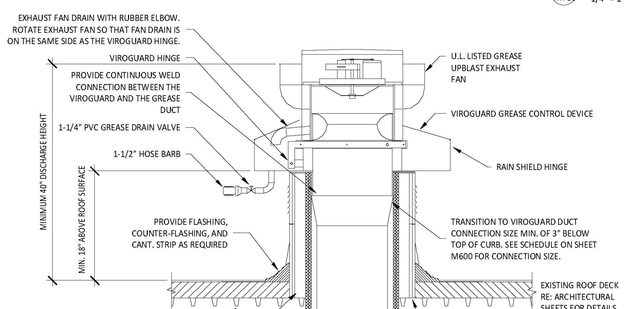
INSTALL AIR PURIFIER WITH JUNCTION BOX ON OUTSIDE FACE OF ROOFTOP UNIT AND WITH UV LAMP TUBE EXTENDING INTO THE INTERIOR OF THE ROOFTOP UNIT. FIELD VERIFY EXACT LOCATION TO AVOID DAMAGING, TOUCHING, OR INTERFERING WITH ANY RTU INTERIOR COMPONENTS. INSTALLATION LOCATION SHALL BE AS FOLLOWS:

TRANE: INSTALL INTO THE SUPPLY AIR STREAM THROUGH THE REMOVABLE PANEL COVERING THE HORIZONTAL DISCHARGE SUPPLY AIR OPENING.

YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

6 M700 UV AIR PURIFIER INSTALLATION

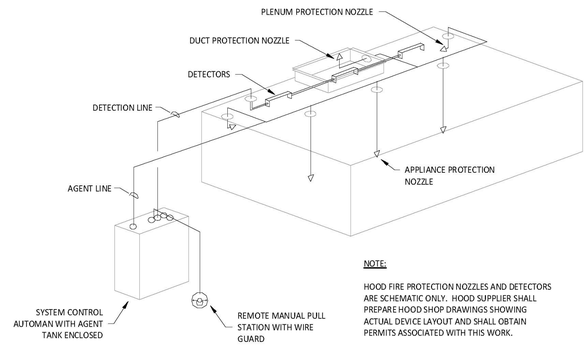
N.T.S.



NOTE:
1. INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 96 REQUIREMENTS.
2. HINGE FAN SO IT TIPS BACK TOWARD FAN DRAIN AND TOWARD VIROGUARD DRAIN.

5 M700 GREASE EXHAUST FAN

N.T.S.



NOTE:

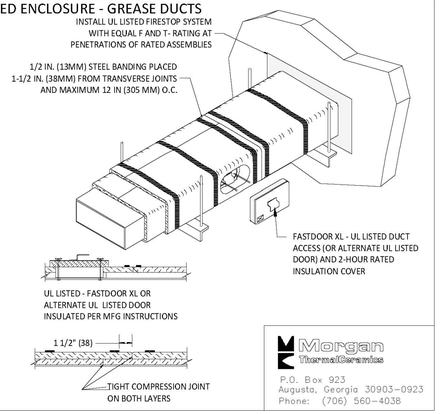
HOOD FIRE PROTECTION NOZZLES AND DETECTORS ARE SCHEMATIC ONLY. HOOD SUPPLIER SHALL PREPARE HOOD SHOP DRAWINGS SHOWING ACTUAL DEVICE LAYOUT AND SHALL OBTAIN PERMITS ASSOCIATED WITH THIS WORK.

4 M700 FIRE SUPPRESSION SYSTEM SCHEMATIC

N.T.S.

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.



Morgan Thermal Ceramics
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Augusta, Georgia 30903-0923
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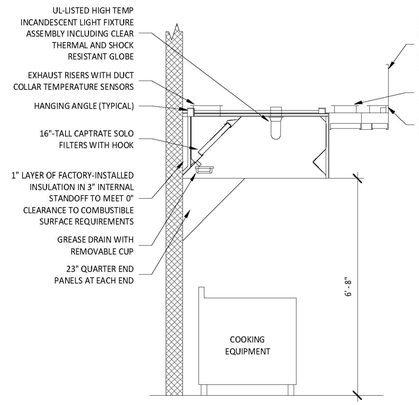
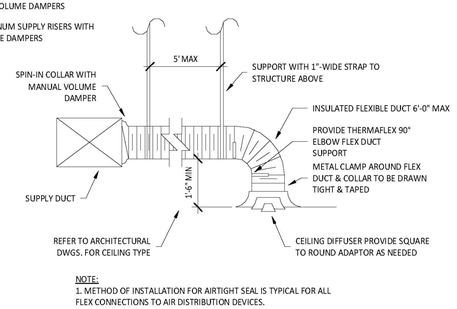
3 M700 FIREMASTER DUCT WRAP - UL HNKT-G18

N.T.S.



2 M700 HOOD SECTION VIEW

N.T.S.



NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.

1 M700 DIFFUSER CONNECTION

N.T.S.

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10/17/2024

CHIPOTLE MEXICAN GRILL

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

STORE NO.: 5494
EAST AURORA
168 MAIN STREET
EAST AURORA, NY 14052

Issue Record:

08/26/2024	FOR PERMIT

Revisions:

Drawn: IAF
Checked: JV

Project No.
CMG 5494

Contents:
MECHANICAL DETAILS

M700

CASE Engineering Inc.
796 Morus Court
St. Louis, MO 63026
T 636.349.1600
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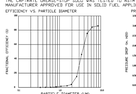
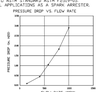
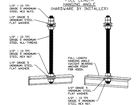
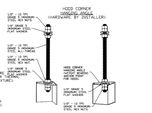
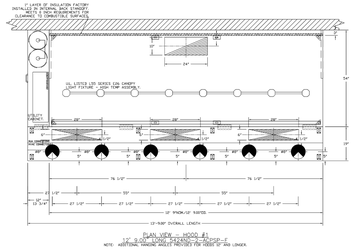
CERTIFICATE OF AUTHORITY NO. 0016873











FOR QUESTIONS, CALL THE
Highwoods Group
REGION 40
PHONE: (919) 875 - 0420
EMAIL: reg40@captiveaire.com

PATENT NUMBERS
AC-PSP (UNITED STATES) - US PATENT 7963830 B2.
AC-PSP WALL (CANADA) - CA PATENT 2820509.
AC-PSP ISLAND (CANADA) - CA PATENT 2520330.

HOOD INFORMATION – JOB#7059613

HOOD NO	TAG	MODEL	MANUFACTURER	LENGTH	MAX COOKING TEMP	TYPE	APPLIANCE DUTY	DESIGN CFM/FT	TOTAL EXH CFM	EXHAUST PLENUM RISER(S) WIDTH	LENG	HEIGHT	DIA	CFM	VEL	SP	MUA CFM	AC CFM	HOOD CONSTRUCTION	HOOD CONFIG END TO END	ROW
1		5424 ND-2-ACPSP-F	CAPTIVEAIRE	12' 9"	600 DEG	I	HEAVY	200	2550	10"	24"	4"		2550	1530	-0.966"	1300	696	430 SS WHERE EXPOSED	ALONE	ALONE

HOOD INFORMATION

HOOD NO	TAG	FILTER(S) TYPE	QTY	HEIGHT	LENGTH	EFFICIENCY @ 7 MICRONS	LIGHT(S) QTY	TYPE	WIRE GUARD	UTILITY CABINET(S) LOCATION	SIZE	FIRE SYSTEM TYPE	FIRE SYSTEM SIZE	ELECTRICAL MODEL #	SWITCHES QUANTITY	FIRE SYSTEM PIPING	HOOD HANGING WEIGHT
1		CAPTRATE SOLO FILTER	9	16"	16"	85% SEE FILTER SPEC	8	L55 SERIES E26	NO	LEFT	12"x54"x24"	TANK FS	4.0/4.0	SC-311110MA	1 LIGHT 1 FAN	YES	1213 LBS

HOOD OPTIONS

HOOD NO	TAG	OPTION
1		FIELD WRAPPER 10.00" HIGH FRONT, LEFT, RIGHT.
		INSULATION FOR BACK OF HOOD.
		RISER SENSOR INSTALL 6IN PLEN.
		RIGHT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		LEFT VERTICAL END PANEL 27" TOP WIDTH, 21" BOTTOM WIDTH, 80" HIGH INSULATED 430 SS.
		FULL DIMENSION HANGING BRACKET - FRONT.

CLEARANCE TO COMBUSTIBLES

HOODS #	SURFACE	*CLEARANCE
1	TOP	18"
	FRONT	0"
	BACK	0"
	LEFT	0"
	RIGHT	18"

- *0" CLEARANCE TO COMBUSTIBLES CONFORMS TO UL710 STANDARD.
- HOOD MOUNTED UTILITY CABINETS REQUIRE 36" SERVICE CLEARANCE.

PERFORATED SUPPLY PLENUM(S)

HOOD NO	TAG	POS	LENGTH	WIDTH	HEIGHT	TYPE	RISER(S) WIDTH	LENG	DIA	CFM	SP
1		Front	165"	19"	6"	MUA	6"	28"		432	0.127"
						MUA	6"	28"		432	0.127"
						MUA	6"	28"		432	0.127"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"
						AC			8"	116	0.043"

SPECIFICATION: CAPTRATE® GREASE-STOP® SOLO FILTER

THE CAPTRATE GREASE-STOP SOLO FILTER IS A SINGLE-STAGE FILTER FEATURING A UNIQUE S-BAFFLE DESIGN IN CONJUNCTION WITH A SLOTTED REAR BAFFLE DESIGN, TO DELIVER EXCEPTIONAL FILTRATION EFFICIENCY.

FILTER IS STAINLESS STEEL CONSTRUCTION, AND SIZED TO FIT INTO STANDARD 2-INCH DEEP HOOD CHANNEL(S).

UNITS SHALL INCLUDE STAINLESS STEEL HANDLES AND A FASTENING DEVICE TO SECURE THE TWO COMPONENTS WHEN ASSEMBLED.

GREASE EXTRACTION EFFICIENCY PERFORMANCE SHALL REMOVE AT LEAST 75% OF GREASE PARTICLES FIVE MICRONS IN SIZE, AND 85% GREASE PARTICLES SEVEN MICRONS IN SIZE AND LARGER, WITH A CORRESPONDING PRESSURE DROP NOT TO EXCEED 1.0 INCHES OF WATER GAUGE.

THE CAPTRATE GREASE-STOP SOLO WAS TESTED TO ASTM STANDARD ASTM F2519-05. MANUFACTURER APPROVED FOR USE IN SOLID FUEL APPLICATIONS AS A SPARK ARRESTER.

CAPTRATE FILTERS ARE BUILT IN COMPLIANCE WITH:
NFPA #96.
NSF STANDARD #2.
UL STANDARD #1046.
INT. MECH. CODE (IMC).
ULC-S649.

ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION ABOVE CEILING ANCHORS. SINGLE HEX NUT BENEATH HANGING ANGLE IS ACCEPTABLE FOR FULL LENGTH HANGING ANGLES. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ASSEMBLY INSTRUCTIONS

HANGING ANGLE MUST BE SUPPORTED WITH 1/2" - 13 TPI GRADE 5 (MINIMUM) ALL-THREAD. SANDWICH HANGING ANGLES AND CEILING ANCHOR POINTS WITH 1/2" GRADE 5 (MINIMUM) STEEL FLAT WASHERS AND 1/2" - 13 TPI GRADE 5 (MINIMUM) HEX NUTS AS SHOWN. MUST USE DOUBLED HEX NUT CONFIGURATION BENEATH HOOD HANGING ANGLES AND ABOVE CEILING ANCHORS. MAINTAIN 1/4" OF EXPOSED THREADS BENEATH BOTTOM HEX NUT. TORQUE ALL HEX NUTS TO 57 FT-LBS.

ASSEMBLY INSTRUCTIONS

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PLAN VIEW - HOOD #1

ACPSP SHIPS LOOSE FOR FIELD INSTALLATION

SECTION VIEW - MODEL 5424ND-2-ACPSP-F
HOOD - #1

CAPTIVEAIRE
Highwoods Group
4641 Paragon Park Rd., Raleigh, NC, 27616 PHONE: (919) 875 - 0420 FAX: 919875057
www.captiveaire.com

CHIPOTLE EAST AURORA #5494
EAST AURORA, NY, 14052

DATE: 10/10/2024
DWG.#: 7059613
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 1

FIRE SYSTEM INFORMATION – JOB#7059613

FIRE SYSTEM NO	TAG	TYPE	SIZE	MAX FP	DESIGN FP	INSTALLATION SYSTEM	LOCATION ON HOOD
1		TANK FS	4.0/4.0	40	32	FIRE CABINET LEFT	LEFT, HOOD 1

GAS VALVE(S)

FIRE SYSTEM NO	TAG	TYPE	SIZE	SUPPLIED BY
1		SC ELECTRICAL	1.500	CAPTIVEAIRE SYSTEMS

- SYSTEM REQUIRES A MINIMUM OF 7 FT OF EQUIVALENT PIPE LENGTH BETWEEN TANK AND NEAREST APPLIANCE NOZZLE FOR MOST APPLIANCES. EACH 90 DEGREE ELBOW ADDS 1.3 FT OF EQUIVALENT LENGTH. SEE MANUAL FOR DETAILS

NOTES
- FIELD PIPE DROPS AS SHOWN
  PIPING, ELBOWS, TEES, AND NOZZLES SUPPLIED BY CAS.
- FIELD INSTALLED DROP: FACTORY WILL PROVIDE QTY 2 60IN LONG PIECES OF CHROME PLATED PIPING SHIPPED LOOSE TO BE FIELD-INSTALLED.
- SHIP LOOSE DROP: FACTORY WILL PROVIDE THE EXACT CHROME PIPE LENGTH NEEDED SHIPPED LOOSE TO BE FIELD-INSTALLED.
- RELOCATE NOZZLES IF FLOW PATTERN IS BLOCKED BY SHELVING, SALAMANDERS, ETC.
- OVERLAPPING COVERAGE SHALL NOT BE USED ON ANY APPLIANCE WITH AN OBSTRUCTION.
- IF APPLICABLE, EXTENDED PRE-PIPED DROPS ARE SHIPPED LOOSE.
- FACTORY PIPING EXTENDS A MAXIMUM OF 6" ABOVE THE TOP OF THE HOOD.

- APPLIANCE DIMENSIONS LISTED REPRESENT THE COOKING SURFACE SIZE, NOT THE OVERALL APPLIANCE SIZE.

- THIS FIRE SYSTEM COMPLIES WITH U.L. 300 REQUIREMENTS.

- OL-F NOZZLE PART NUMBER REPLACES 3070-3/8H-10-SS

JOB #: 7059613.
JOB NAME: CHIPOTLE EAST AURORA #5494.

SYSTEM SIZE: TANK-SP-2 DESIGN FP: 32. MAXIMUM FP: 40.
HOOD # 1 12' 9.00" LONG x 54" WIDE x 24" HIGH.
RISER # 1 SIZE: 10" x 24".
HOOD # 1 METAL BLOW-OFF CAPS INCLUDED.

- HEAVY-DUTY APPLIANCES (RATED 600°F) WILL REQUIRE AN ADDITIONAL DOWNSTREAM FIRESTAT IN THE EVENT THAT THE DUCTWORK CONTAINS ANY HORIZONTAL RUNS OVER 25 FT IN LENGTH.
- MEDIUM TO LIGHT-DUTY APPLIANCES (RATED 450°F) WILL NOT REQUIRE ANY ADDITIONAL DOWNSTREAM DETECTION.

AGENT DISTRIBUTION PIPING LIMITATIONS	
PIPE SECTION	MAX PIPE LENGTH (FT)
MAX SUPPLY LINE TO FIRST OVERLAPPING NOZZLE	42
OVERLAPPING NOZZLE APPLIANCE BRANCH	10
DEDICATED NOZZLE APPLIANCE BRANCH	10

LEGEND - FIRE CABINET TANK SYSTEM

1 4 GALLON TANK.
2 PRIMARY ACTUATOR RELEASE.
3 SECONDARY ACTUATOR RELEASE.
4 PRESSURE SUPERVISION SWITCH.
5 PRIMARY HOSE ASSEMBLY.
6 SECONDARY HOSE ASSEMBLY.
7 REMOTE MANUAL ACTUATION DEVICE.

INCLUDES: FIELD INSTALLATION AND HOOKUP DURING NORMAL BUSINESS HOURS BY CERTIFIED INSTALLERS ONLY IN THE LOCATION NOTED ABOVE, TWO SITE VISITS ONLY (ONE VISIT TO SET PULL STATION & SYSTEM HOOKUP AND ONE VISIT FOR ONE TEST; ADDITIONAL VISITS WILL RESULT IN ADDITIONAL CHARGES), ONE MECHANICAL OR ELECTRICAL GAS VALVE PER SYSTEM AT A MAXIMUM SIZE OF 2", PERMIT, AND SYSTEM TEST.
EXCLUDES: UNION LABOR & PREVAILING WAGE (LABOR & WAGES WILL BE ADDED IF APPLICABLE), GAS VALVE INSTALLATION, ELECTRICAL HOOKUP AND CONNECTIONS, HANGING OF FIRE CABINET, SHUNT TRIP, HANDHELD EXTINGUISHER(S), ON-SITE RE-PIPING DUE TO EQUIPMENT LAYOUT CHANGES.

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CHIPOTLE EAST AURORA #5494
EAST AURORA, NY, 14052

DATE: 10/10/2024
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DRAWN BY:
SCALE: 1/2" = 1'-0"
MASTER DRAWING
SHEET NO. 2

EXHAUST FAN INFORMATION – JOB#7059613

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	MANUFACTURER	CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	DISCHARGE VELOCITY	WEIGHT (LBS)	SONES
1	EF-1	1	DU180HFA	CAPTIVEAIRE	2550	1.450	1222	TEFC,PREMIUM	2.000	1.2790	3	208	7.3	589 FPM	199	16.7
2	EF-2	1	DR12HFA	CAPTIVEAIRE	150	0.600	1282	TEAO-ECM	0.250	0.0930	1	115	2.9		50	6.1

MUA FAN INFORMATION – JOB#7059613

FAN UNIT NO	TAG	QTY	FAN UNIT MODEL #	BLOWER	HOUSING	MIN CFM	DESIGN CFM	ESP	RPM	MOTOR ENCL	HP	BHP	PHASE	VOLT	FLA	MCA	MOCP	WEIGHT (LBS)	SONES
3	MAU-1	1	A1-D.250-15D	15MF-1-MOD	A1-D.250	1000	1300	0.500	1548	ODP,PREMIUM	1.000	0.5670	3	208	3.1	3.9A	15A	507	12.2

GAS FIRED MAKE-UP AIR UNIT(S)

FAN UNIT NO	TAG	INPUT BTUs	OUTPUT BTUs	TEMP RISE	REQUIRED INPUT GAS PRESSURE	GAS TYPE	BURNER EFFICIENCY(%)
3	MAU-1	78010	71769	52°F	7 IN. W.C. - 14 IN. W.C.	NATURAL	92

FAN OPTIONS

FAN UNIT NO	TAG	QTY	DESCRIPTION
1	EF-1	1	GREASE BOX
		1	REMOVE HINGE KIT LABEL FROM THE FAN BASE
		1	2 YEAR PARTS WARRANTY
2	EF-2	1	I 12-BDD DAMPER
		1	ECM WIRING PACKAGE - MANUAL OR 0-10VDC REFERENCE SPEED CONTROL -RTC- (TELCO MOTOR), CCW ROTATION
		1	2 YEAR PARTS WARRANTY
3	MAU-1	1	SIZE 1 TEMPERED COMMERCIAL DOWN DISCHARGE FOR DIRECT DRIVE AHUS
		1	INLET PRESSURE GAUGE, 0-35"
		1	MANIFOLD PRESSURE GAUGE, -5 TO 15" WC
		1	SHIP LOOSE GAS STRAINER 3/4"
		1	MOTORIZED BACKDRAFT DAMPER FOR A1-D HOUSING - MEETS AMCA CLASS 1A RATING
		1	SEPARATE 120V WIRING PACKAGE (REQUIRED AND USED ONLY FOR DCV OR PREWIRE WITH VFD) - THREE PHASE ONLY
		1	2 YEAR PARTS WARRANTY
		1	EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET

FAN ACCESSORIES

FAN UNIT NO	TAG	EXHAUST GREASE CUP	EXHAUST GRAVITY DAMPER	EXHAUST WALL MOUNT	SUPPLY SIDE DISCHARGE	SUPPLY GRAVITY DAMPER	SUPPLY MOTORIZED DAMPER	SUPPLY WALL MOUNT
1	EF-1	YES						
2	EF-2		YES					
3	MAU-1						YES	

CURB ASSEMBLIES

NO	ON FAN	TAG	WEIGHT	ITEM	SIZE
1	# 1	EF-1	39 LBS	CURB	26.500"W X 26.500"L X 20.000"H VENTED.
2	# 2	EF-2	31 LBS	CURB	17.500"W X 17.500"L X 26.000"H.
3	# 3	MAU-1	65 LBS	CURB	21.000"W X 71.000"L X 20.000"H INSULATED.

HMI SCHEDULE				
UNIT NUMBER	HMI #	HMI LOCATION	TEMP AVERAGING	MODBUS ADDRESS
FAN #3	HMI #1 - UNIT	IN UNIT	NOT AVERAGED	55

FAN #1 DU180HFA - EXHAUST FAN (EF-1)

FEATURES:

FAN #2 DR12HFA - EXHAUST FAN (EF-2)

FEATURES:

BACKDRAFT DAMPER INSTALLATION

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EAST AURORA, NY, 14052

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SHEET NO. 3

FAN #3 A1-D.250-15D - HEATER (MAU-1)
1. DIRECT GAS FIRED HEATED MAKE UP AIR UNIT WITH 15" MIXED FLOW DIRECT DRIVE FAN.
2. INTAKE HOOD WITH EZ FILTERS.
3. DOWN DISCHARGE - AIR FLOW RIGHT -> LEFT.
4. DOWN DISCHARGE CONSTRUCTION FOR SIZE 1 DIRECT DRIVE AHUS.
5. GAS PRESSURE GAUGE, 0-35", 2.5" DIAMETER, 1/4" THREAD SIZE.
6. GAS PRESSURE GAUGE, -5 TO +15 INCHES WC., 2.5" DIAMETER, 1/4" THREAD SIZE.
7. SHIP LOOSE GAS STRAINER. TO BE INSTALLED UPSTREAM OF UNIT CONNECTION. 3/4" CONNECTION.
8. MOTORIZED BACK DRAFT DAMPER 16" X 18" FOR SIZE 1 STANDARD & MODULAR HEATER UNITS W/EXTENDED SHAFT, STANDARD GALVANIZED CONSTRUCTION, 3/4" REAR FLANGE, LOW LEAKAGE, TFB120S ACTUATOR INCLUDED.
9. SEPARATE 120VAC WIRING PACKAGE FOR MAKE-UP AIR UNITS. OPTION MUST BE SELECTED WHEN MOUNTING VFD IN PREWIRE PANEL OR WITH DCV PACKAGE. PROVIDES SEPARATE 120VAC INPUT TO SUPPLY FAN. THIS 120V SIGNAL MUST BE RUN BY ELECTRICIAN FROM DCV TO MUA SWITCH.
10. HINGED DOUBLE WALL INSULATED DOOR ASSEMBLY (BURNER/BLOWER SECTION).
11. EXTERIOR GAS CONNECTION PROVIDED BY FACTORY WITH QUICK SEAL AND ANTI-ROTATION BRACKET.
12. 2 YEAR PARTS WARRANTY.

*NOTE: SUPPLY DUCT MUST BE INSTALLED TO MEET SMACNA STANDARDS. A MINIMUM STRAIGHT DUCT LENGTH MUST BE MAINTAINED DOWNSTREAM OF UNIT DISCHARGE AS OUTLINED IN AMCA PUBLICATION 201. WHEN USING RECTANGULAR DUCTWORK, ELBOWS MUST BE RADIUS THROAT, RADIUS BACK WITH TURNING VANES. FLEXIBLE DUCTWORK AND SQUARE THROAT/SQUARE BACK ELBOWS SHOULD NOT BE USED. ANY TRANSITION AND/OR TURNS IN THE DUCTWORK WILL CAUSE SYSTEM EFFECT. SYSTEM EFFECT WILL DRASTICALLY INCREASE STATIC PRESSURE AND REDUCE AIRFLOW. DO NOT RELY ON UNIT TO SUPPORT DUCT IN ANY WAY. FAILURE TO PROPERLY SIZE DUCTWORK MAY CAUSE SYSTEM EFFECTS AND REDUCE PERFORMANCE OF THE EQUIPMENT. SUGGESTED STRAIGHT DUCT SIZE IS 14" x 14".

SUPPLY SIDE HEATER INFORMATION

DIRECT FIRED (DF) PROFILE PLATE ASSEMBLY

DIRECT FIRED PROFILE PLATE SPECIFICATIONS:
DESCRIPTION:
DIRECT FIRED BURNERS SHALL HAVE PATENTED (US PATENT NO.: US6629523B2), SELF-ADJUSTING PROFILE PLATES DESIGNED TO ENSURE PROPER AIR VELOCITY AND PRESSURE DROP ACROSS THE BURNER. PROFILE PLATES SHALL ALLOW BURNERS TO ACHIEVE CLEAN COMBUSTION BY LIMITING BY-PRODUCT LEVELS TO A MAXIMUM OF 5PPM OF CARBON MONOXIDE (CO), AND 0.5PPM OF NITROGEN DIOXIDE (NO2)DIRECT FIRED UNITS SHALL BE CONFIGURED WITH THE BLOWER MOUNTED DOWNSTREAM OF THE BURNER. THIS ARRANGEMENT WILL ENSURE A CONSISTENT AIRFLOW, REGARDLESS OF INLET AIR TEMPERATURE.

APPLICATION:
SPRING-LOADED BURNER PROFILE PLATES ARE ENGINEERED TO AUTOMATICALLY REACT TO THE MOMENTUM OF A FRESH AIR STREAM, WITHOUT THE NEED FOR ANY MOTORS OR ACTUATORS TO MECHANICALLY ADJUST THEM. WITH THIS FEATURE, ALL DF UNITS ARE DESIGNED FOR DEMAND CONTROL VENTILATION (DCV) REQUIREMENTS.

CERTIFICATIONS:
ALL PROFILE PLATE ASSEMBLIES SHALL BE INCLUDED IN THE DF UNIT'S ETL LISTING AND COMPLY WITH COMBINED SAFETY STANDARDS ANSI Z83.4 AND CSA 3.7 (NON-RECIRCULATING DF HEATERS) AND ANSI Z83.18 (RECIRCULATING DF HEATERS).

GENERAL CONSTRUCTION:
-PROFILE PLATES SHALL BE FORMED FROM G90 GALVANIZED STEEL.
-PROFILE PLATES SHALL VARY IN SIZE PER UNIT.
-PROFILE PLATES SHALL BE MOUNTED ALONG THE SAME PLANE AS THE DISCHARGE OF THE BURNER.
-DESIGN SHALL INCORPORATE PROPERLY TORQUED, PERMANENTLY MOUNTED SPRING HINGES.
-SPRING HINGES SHALL BE MADE FROM PLATED STEEL.

OPTIONS
- FULL BOTTOM CORNERS.

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MASTER DRAWING
SHEET NO. 4

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303.974.5873
WWW.LINGLEDESIGN.COM

MATTHEW RICHARD CASE
099301-1
10/17/2024

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PO BOX 182566
COLUMBUS, OH 43218-2566
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Issue Record:
08/26/2024 FOR PERMIT

Revisions:
2 10/17/2024 CITY COMMENTS

Drawn: Author
Checked: Checker

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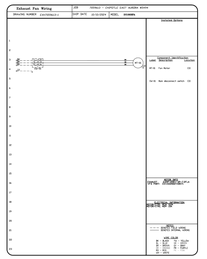
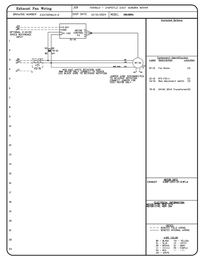
CMG 5494

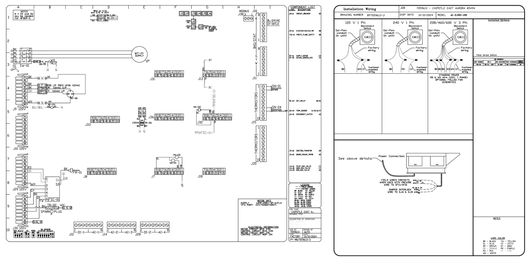
Contents:
HOOD DRAWINGS

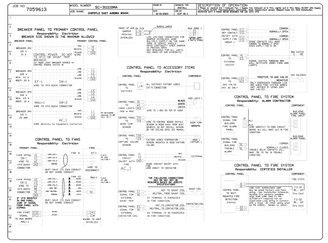
M800

CASE
Engineering Inc.
796 Merus Court
St. Louis, MO 63026
T 636.349.1600
F 636.349.1730
CERTIFICATE OF AUTHORITY NO. 0016873









SYSTEM DESIGN VERIFICATION (SDV)

IF ORDERED, CAS SERVICE WILL PERFORM A SYSTEM DESIGN VERIFICATION (SDV) ONCE ALL EQUIPMENT HAS HAD A COMPLETE START UP PER THE OPERATION AND INSTALLATION MANUAL. TYPICALLY, THE SDV WILL BE PERFORMED AFTER ALL INSPECTIONS ARE COMPLETE.

ANY FIELD RELATED DISCREPANCIES THAT ARE DISCOVERED DURING THE SDV WILL BE BROUGHT TO THE ATTENTION OF THE GENERAL CONTRACTOR AND CORRESPONDING TRADES ON SITE. THESE ISSUES WILL BE DOCUMENTED AND FORWARDED TO THE APPROPRIATE SALES OFFICE. IF CAS SERVICE HAS TO RESOLVE A DISCREPANCY THAT IS A FIELD ISSUE, THE GENERAL CONTRACTOR WILL BE NOTIFIED AND BILLED FOR THE WORK. SHOULD A RETURN TRIP BE REQUIRED DUE TO ANY FIELD RELATED DISCREPANCY THAT CANNOT BE RESOLVED DURING THE SDV, THERE WILL BE ADDITIONAL TRIP CHARGES.

DURING THE SDV, CAS SERVICE WILL ADDRESS ANY DISCREPANCY THAT IS THE FAULT OF THE MANUFACTURER. SHOULD A RETURN TRIP BE REQUIRED, THE GENERAL CONTRACTOR AND APPROPRIATE SALES OFFICE WILL BE NOTIFIED. THERE WILL BE NO ADDITIONAL CHARGES FOR MANUFACTURER DISCREPANCIES.

REVISIONS

CAPTIVEAIRE

4641 Paragon Park Rd., Raleigh, NC, 27616

CHIPOTLE EAST AURORA #5494
EAST AURORA, NY, 14052

DATE: 10/10/2024
DWG.#: 7059613
DRAWN BY:
SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 5

ELECTRICAL PACKAGE – JOB#7059613

NO	TAG	PACKAGE #	LOCATION	SWITCHES		OPTION	FANS CONTROLLED					
				LOCATION	QUANTITY		FAN TAG	TYPE	ϕ	HP	VOLT	FLA
1		SC-311110MA	UTILITY CABINET LEFT	UTILITY CABINET LEFT	1 LIGHT	SMART CONTROLS THERMOSTATIC CONTROL W/ RELAY ON/OFF WITH SUPPLY	EF-1	EXHAUST	3	2.000	208	7.3
				HOOD # 1	1 FAN		MAU-1	SUPPLY	3	1.000	208	3.1

TANK PROTECTION ELECTRICAL DETAIL

TANK PROTECTION LOW-VOLTAGE DETAIL

REVISIONS

CAPTIVEAIRE

CHIPOTLE EAST AURORA #5494
EAST AURORA, NY, 14052

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SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 6

TANK PROTECTION LOW-VOLTAGE FIGURES

REVISIONS

CAPTIVEAIRE

CHIPOTLE EAST AURORA #5494
EAST AURORA, NY, 14052

DATE: 10/10/2024
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SCALE: 3/4" = 1'-0"
MASTER DRAWING
SHEET NO. 7

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MATTHEW RICHARD CASE
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10/17/2024

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Contents:
HOOD DRAWINGS

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PLUMBING SPECIFICATIONS

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: 1-1/2-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-PATTEM, 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
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, 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 SPECIAL TIES
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, FOR2-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.
1. LINE GAS PRESSURE REGULATORS: INLET PRESSURE RATING NOT LESS THAN SYSTEM PRESSURE.
G. FLEXIBLE CONNECTORS: ANSI Z21.24, COPPER ALLOY.
H. STRAINERS: BRONZE BODY, Y-PATTEM, FULL SIZE OF CONNECTING PIPING. INCLUDE STAINLESS-STEEL SCREENS WITH 3164 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
A. SUBMITTALS: NONE.
B. COMPLY WITH REQUIREMENTS OF PUBLIC LAW 102-486, "ENERGY POLICY ACT', REGARDING WATER FLOW RATE AND WATER CONSUMPTION OF PLUMBING FIXTURES.
C. COMPLY WITH APPLICABLE STANDARDS BELOW:
1. ENAMELED, CAST IRON FIXTURES: ASMEA112.19.1M.
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 486AAND 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 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 SHEET G001 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. PERFORM A FLOW TEST ON THE DOMESTIC WATER SERVICE AT POSSESSION. IF THE STATIC WATER PRESSURE IS OVER 80 PSI THEN COORDINATE WITH CHIPOTLE CONSTRUCTION MANAGER TO PROVIDE A PRESSURE REGULATOR (WATTS LFUSB-Z3 OR EQUAL). PROVIDE RESULTS OF THE FLOW TEST TO THE ENGINEER FOR CONFIRMATION OF ADEQUATE CAPACITY.

PLUMBING SYMBOLS

- ELBOW UP
- ELBOW DOWN
- DOMESTIC COLD WATER
- DOMESTIC FILTERED COLD WATER
- DOMESTIC HOT WATER (110 DEGREES)
- DOMESTIC HOT WATER RECIRC.
- GAS
- GAS (ON ROOF)
- SANITARY WASTE
- GREASE WASTE
- SANITARY VENT
- CONDENSATE DRAIN
- PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- CONNECT TO EXISTING
- REDUCED PRESSURE ZONE BACKFLOW PREVENTER
- WATER METER
- GAS METER
- EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET P200 FOR EQUIPMENT INFORMATION
- VALVE
- SOLENOID-OPERATED VALVE
- WALL HYDRANT/ROOF HYDRANT
- CHECK VALVE
- CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
- FLOOR DRAIN
- FLOOR SINK
- CLEANOUT

ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
EX	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT
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
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PLUMBING MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
WATER SUPPLY PIPE	ABOVE GRADE	TYPE L COPPER TUBE
NATURAL GAS PIPE	CONCEALED	SCHED. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS
	EXPOSED	SCHED. 40 STEEL PIPE, MALLEABLE IRON THREADED FITTINGS, PAINTED
SANITARY WASTE & VENT PIPE	ABOVE GROUND, CONCEALED	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND PREP SINK AND WARE WASHING SINK DRAINS	PVC PLASTIC DWV PIPE AND FITTINGS
	ABOVE GROUND HAND SINK DRAINS	BRASS WITH CHROME FINISH
	BELOW GROUND	PVC PLASTIC DWV PIPE AND FITTINGS

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Contents:
PLUMBING SPECIFICATIONS (TI)

P011

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NOTE:
ENSURE ALL TRAP PRIMERS ARE ACCESSIBLE. DO NOT LOCATE ABOVE ANY LARGE PIECES OF EQUIPMENT.

NOTE:
COORDINATE ALL PLUMBING LOCATIONS WITH ELECTRICAL LOCATIONS. WATER LINES NOT TO BE INSTALLED ABOVE RECEPTACLES.

NOTE:
IF REQUIRED BY LOCAL AHJ, LANDLORD SHALL FURNISH AND INSTALL AN APPROVED VERTIFIED / TESTED BACKFLOW PREVENTION ASSEMBLY FOR THE MAIN WATER SERVICE LATERAL FEEDING THE BUILDING.

TENANT SHALL BE RESPONSIBLE TO PROVIDE A BACKFLOW PREVENTER FOR THE WATER FEED SERVICING THE DEMISED PREMISE ONLY.

THE FIRE PROTECTION SYSTEM AND DOMESTIC WATER SYSTEM SHALL NOT BE SUPPLIED FROM THE SAME SERVICE. REFER TO FIRE PROTECTION DRAWINGS FOR ADDITIONAL INFORMATION.

ANY EXPOSED WATER LINES SHOULD BE RUN TIGHT TO THE BOTTOM OF ROOF DECK.

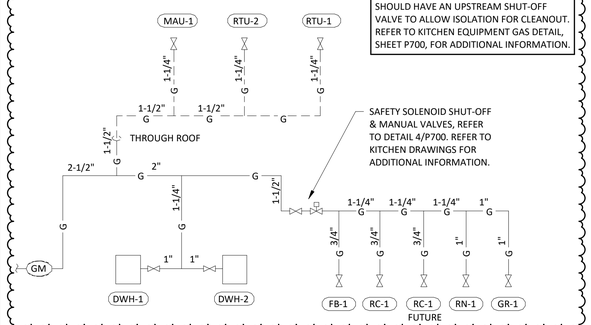
HOT WATER BALANCING NOTE:
PLUMBING CONTRACTOR SHALL PROVIDE JOMAR VALVE RECIRCSETTER™AUTOMATIC VARIABLE SET POINT BALANCING VALVE OR EQUIVALENT AT EACH HOT WATER CIRCULATION CONNECTION TO THE HOT WATER SYSTEM. ENSURE VALVES ARE INSTALLED IN AN ACCESSIBLE LOCATION FOR ADJUSTMENT AND SERVICE. SYSTEM SHALL BE SET FOR A 5 DEGREE TEMPERATURE DIFFERENCE FROM WATER HEATER SET POINT. CONSULT WITH THE CIRCULATING PUMP MANUFACTURER FOR ADDITIONAL CONTROLS AND BALANCING INSTRUCTION.

CONNECTED GAS LOAD

FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
WATER HEATER	DWH-1	199	50
WATER HEATER	DWH-2	199	50
FRYER	FB-1	95	85
GRIDDLE	GR-1	107	95
MAKEUP AIR UNIT	MAU-1	225	100
RICE COOKER	RC-1	35	90
RICE COOKER (FUTURE)	RC-1	35	90
RANGE	RN-1	192	95
KITCHEN ROOFTOP UNIT	RTU-1	180	50
DINING ROOM ROOFTOP UNIT	RTU-2	240	65
Grand total		1507	MAX: 100

NOTES:
1. PRESSURE REQUIRED AFTER METER: 7" W.C.
2. DISTANCES ARE APPROXIMATE

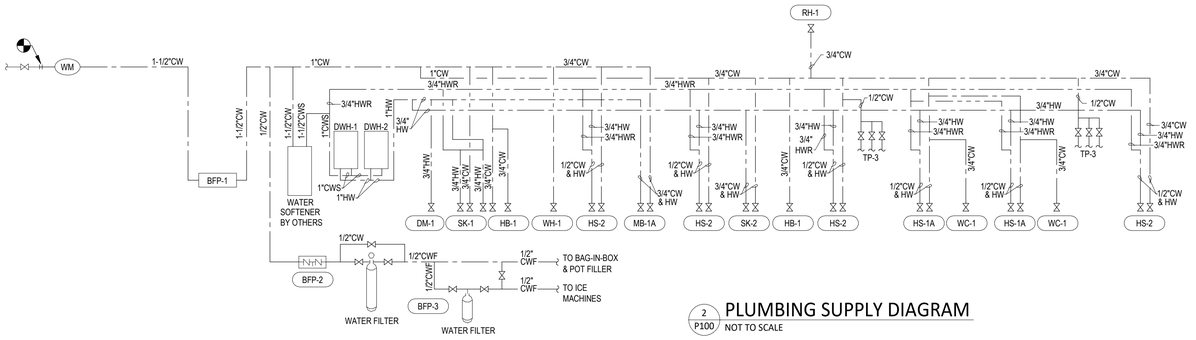
NOTE:
PROVIDE A DRIP/DIRT LEG AT THE BRANCH TO THE COOK LINE OR AT EACH RUNOUT TO EACH APPLIANCE. THE DRIP/DIRT LEG SHOULD HAVE AN UPSTREAM SHUT-OFF VALVE TO ALLOW ISOLATION FOR CLEANOUT. REFER TO KITCHEN EQUIPMENT GAS DETAIL, SHEET P700, FOR ADDITIONAL INFORMATION.



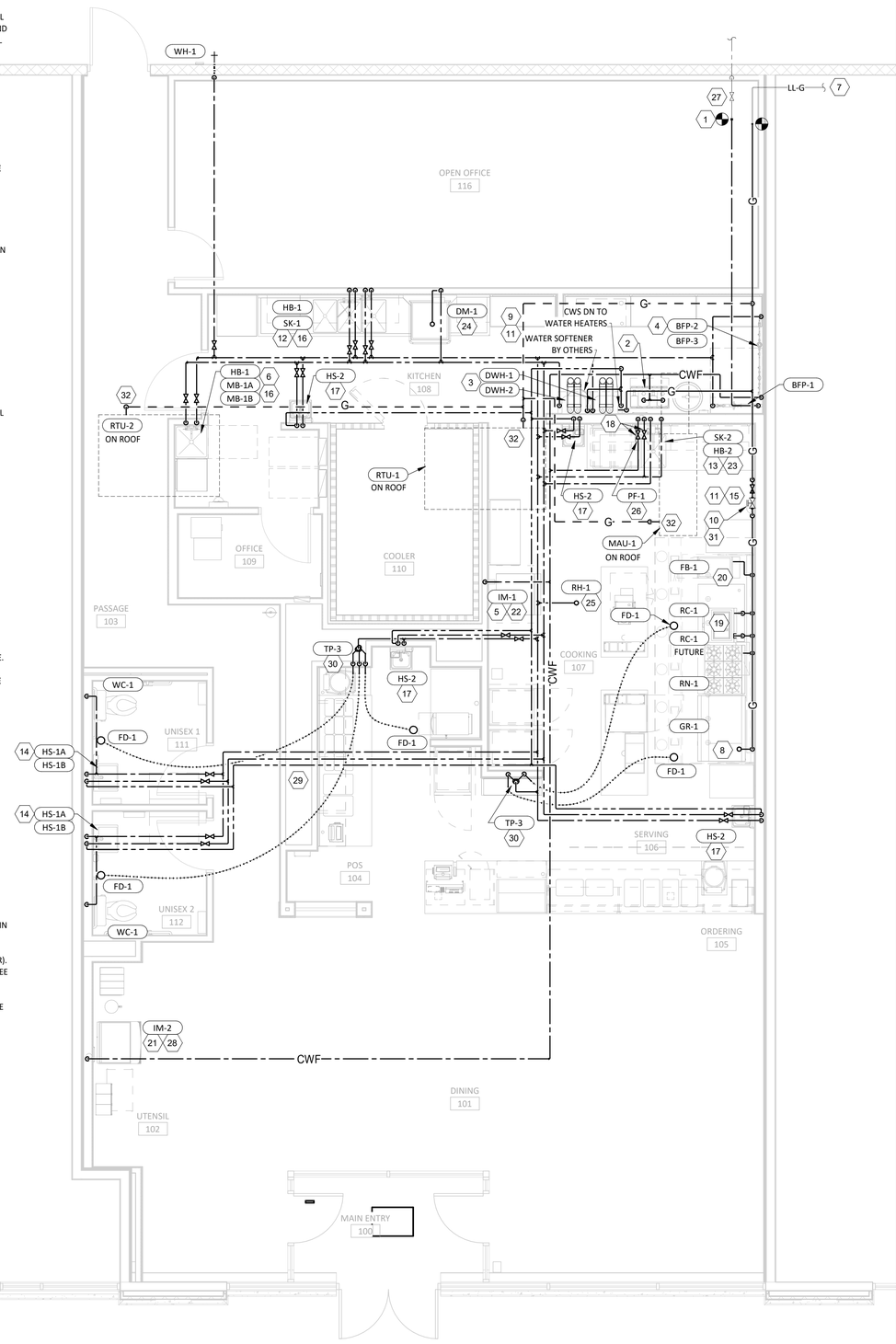
3 / P100 GAS DISTRIBUTION DIAGRAM
NOT TO SCALE

PLUMBING SUPPLY PLAN NOTES

1. ROUTE TO CONNECT TO LANDLORD FURNISHED, SEPARATELY METERED, 1-1/2" OR GREATER DEDICATED DOMESTIC COPPER WATER SUPPLY LINE SUPPLYING MINIMUM 45 GPM AT 60 PSI. LANDLORD SHALL PROVDE PROOF OF DELIVERY PRESSURE (GAUGE) AT POSSESSION AND PROVIDE AND INSTALL A BOOSTER PUMP AT LANDLORD'S EXPENSE IF WATER PRESSURE IS UNABLE TO BE PROVIDED AT MINIMUM OF 60 PSI. BOOSTER PUMP SHALL BE LOCATED IN A MUTUALLY AGREED UPON LOCATION WITHIN THE TENAT'S DEMISED PREMISE WHERE THE UNIT CAN BE PROPERLY MAINTAINED AND SERVICED BY LANDLORD. COORDINATE EXACT LOCATION, INVERT ELEVATION, AND CONNECTION POINT IN FIELD PRIOR TO START OF WORK, 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. ROUTE NEW GAS PIPING TO CONNECT TO EXISTING METER BANK, LANDLORD SHALL REPLACE EXISTING METER IF REQUIRED. LANDLORD SHALL FURNISH AND INSTALL A MINIMUM OF 1600MBH NATURAL GAS SERVICE WITH A DELIVERY PRESSURE OF 7" WATER COLUMN ROUTED TO A LOCATION WITHIN THE PREMISES IN ACCORDANCE WITH TENANT'S PLANS FOR THE PREMISES. LANDLORD TO PROVDE PROOF OF DELIVERY PRESSURE (GAUGE) AT POSSESSION AND REGULATE PRESSURE IF REQUIRED. GAS PIPING SHALL BE APPROPRIATELY SIZED FROM LANDLOR METER LOCATION TO A POINT OF DELIVERY WITHIN THE TENANT'S PREMISES IN ACCORDANCE WITH TENANT'S PLANS FOR THE PREMISES. ALL RELATED NATURAL GAS UTILITY COMPANY CHARGES SHALL BE PAID BY LANDLORD. SEE CIVIL UTILITY PLAN FOR ON-SITE GAS ROUTING.
8. PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PRE 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 KITCHEN 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.
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 TEMPERATURES 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. ADD EXTRA GAS STUB FOR FUTURE RICE COOKER CONNECTION.
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 IMSD 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 WAS CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN.
24. PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING 3/4" COPPER PIPE ONCE DISH MACHINE IS IN ITS FINAL LOCATION (FLEXIBLE CONNECTION IS NOT ACCEPTABLE). PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSIBLE SHUTOFF VALVE AND UNION BELOW THE DISH MACHINE AND INSTALL THE STRAINER AND PRESSURE REDUCING VALVE 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 MAKE 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. GAS DOWN TO KITCHEN EQUIPMENT. PROVIDE AUTOMATIC EMERGENCY FUEL SHUT-OFF VALVE IN RISER, EMERGENCY SHUT-OFF INTERLOCKED TO HOOD FIRE SUPPRESSION SYSTEM. COORDINATE EXACT LOCATION WITH THE KITCHEN HOOD VENDOR AND LOCAL AHJ REQUIREMENTS.
32. PROVIDE GAS CONNECTION TO ROOFTOP EQUIPMENT RTU-1, RTU-2, AND MAU-1.



2 / P100 PLUMBING SUPPLY DIAGRAM
NOT TO SCALE



PLUMBING SUPPLY PLAN
1 / P100 1/4" = 1'-0"

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10/17/2024

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Contents:
PLUMBING PLAN
WATER & GAS

P100

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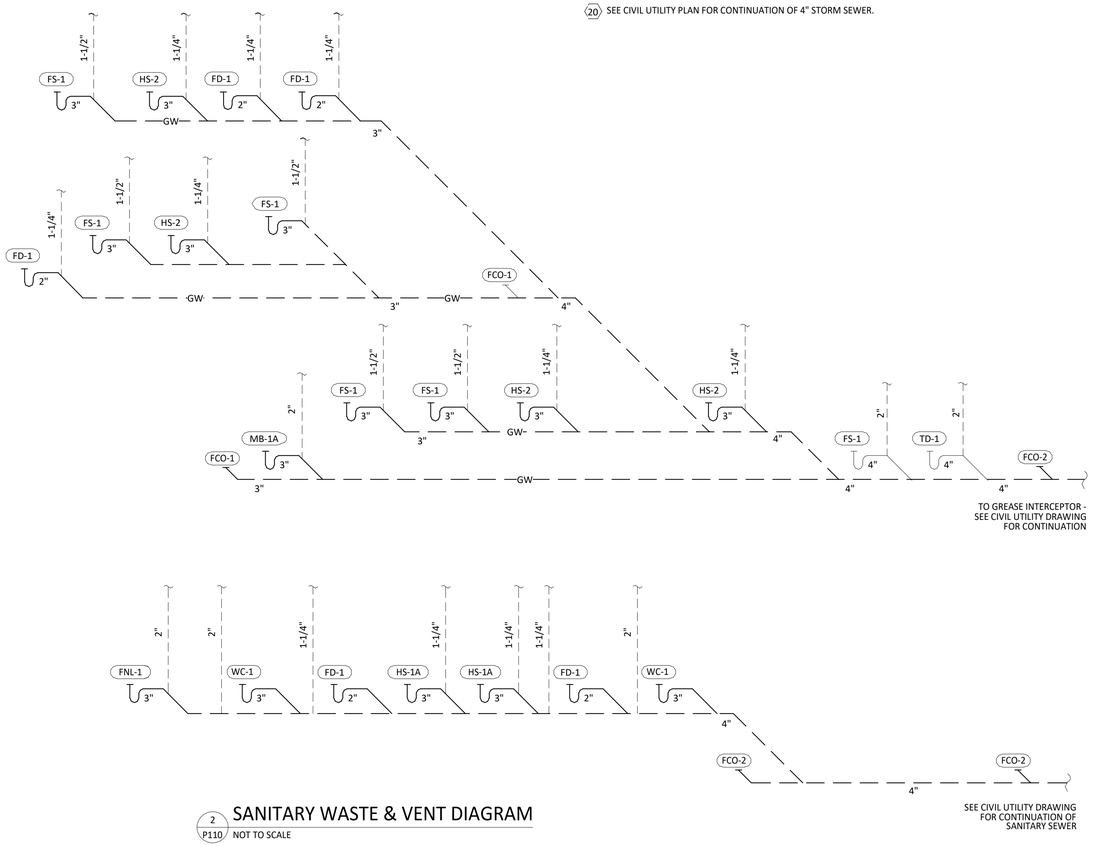
DRAINAGE FIXTURE UNITS FOR GREASE WASTE			
FIXTURE	DRAINAGE FIXTURE UNITS	NUMBER OF FIXTURES	TOTAL DRAINAGE FIXTURE UNITS
2" FLOOR DRAINS	3	5	15
3" FLOOR SINK	4	4	20
4" FLOOR SINK	4	1	4
4" TRENCH DRAIN	5	1	5
MOP BASIN	3	1	3
HAND SINKS	2	4	8
TOTAL DRAINAGE FIXTURE UNITS			55

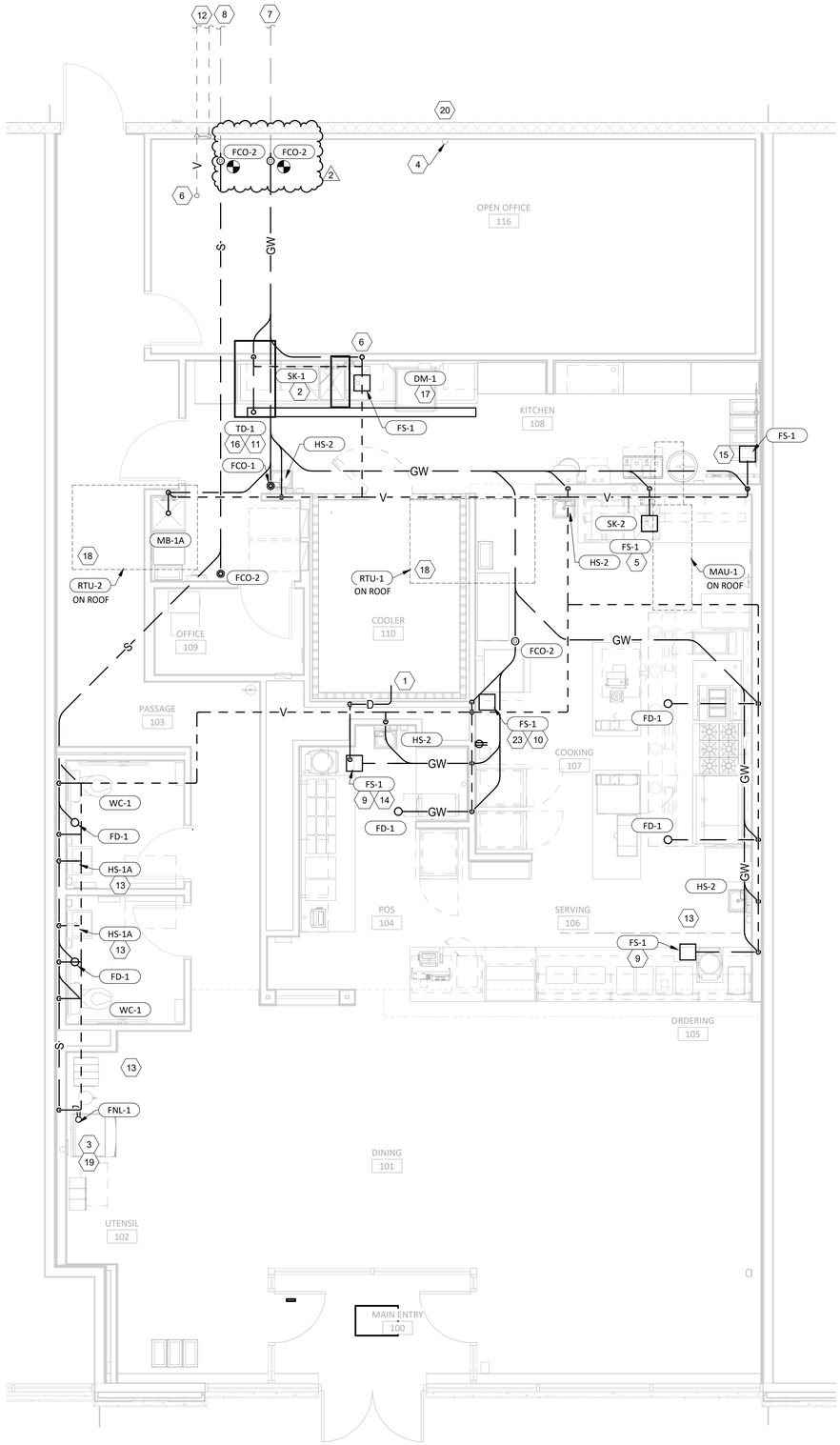
GRAVITY GREASE INTERCEPTOR SIZING	
DFU'S	INTERCEPTOR VOLUME
8	500 GALLONS
21	750 GALLONS
36	1,000 GALLONS
90	1,250 GALLONS
172	1,500 GALLONS



2 P110 SANITARY WASTE & VENT DIAGRAM
NOT TO SCALE

PLUMBING WASTE AND VENT PLAN NOTES

1. PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW THE ICE MAKER 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 BEHIND ICE MAKER AT 8" AFF AND BE SECURED TO FLOOR UNDER ICE MAKER.
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. EXISTING STORM DRAIN PIPING, VERIFY EXACT LOCATION IN FIELD PRIOR TO START OF WORK, REPLACE IF REQUIRED.
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 LOCATIN 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 BELOW THE UTENSIL COUNTER.
11. TRIM TENCH 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 PUBLICALY-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 DRAIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
16. PROVIDE TRENCH DRAIN AS SHOWN PER 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. PROVIDE INSULATED COPPER DRAIN LINES FOR THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN. ROUTE TEA TRAY AND SODA MACHINE DRAINS BEHIND THE SHELF AND COLD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.
20. SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" STORM SEWER.



1 P110 SANITARY WASTE & VENT PLAN
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PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	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-207	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE AND AIR GAP FITTING	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 1/2"			0	0	0	
BFP-3	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE STAINLESS STEEL REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE (OR APPROVED EQUAL)	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	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			3"				
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	3/4"			0		0	
FB-1	GAS FRYER	KES	GC	SEE ARCH									
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)			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)			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	1/2"		2"				2
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET			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			3"				5
GI-1	GREASE INTERCEPTOR	GC	GC	CUSTOM	--	1,500 GALLON PRECAST GREASE INTERCEPTOR			4"				0
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--								
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.	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	1/2"			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"				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.	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	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	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE	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.			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	1/2"	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	3/8"			1.5		1.5	
RC-1	RICE COOKER	KES	GC	SEE ARCH	--								
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			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			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	3/4"			1		1	
RN-1	6 BURNER RANGE	KES	GC	SEE ARCH	--								
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.	1/2"			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	1/2"	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	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.			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.	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.	1/2"			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).	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.	3/4"			1		1	

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"		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"		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).

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CMG 5494

Contents:
PLUMBING SCHEDULES

P600

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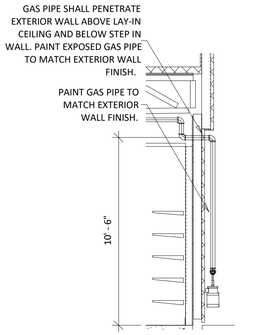

17 P700 GAS METER SECTION
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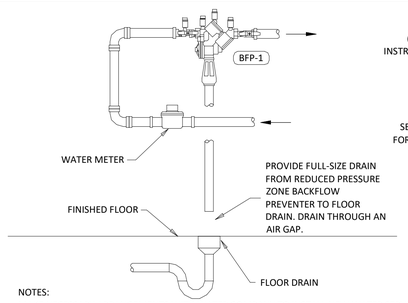
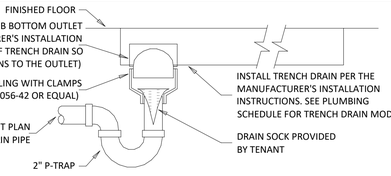


NOTES:
MAKE NECESSARY ARRANGEMENTS WITH WATER COMPANY TO INSTALL NEW WATER SERVICE PER LOCAL CODES & WATER COMPANY REGULATIONS AND PAY ALL CHARGES. SERVICE SHALL BE SIZED PER THE PLUMBING PLAN & INSTALLED IN STRICT ACCORDANCE OF WATER COMPANY REGULATIONS. ANCHOR METER, BACKFLOW PREVENTER, AND PIPING TO THE WALL OR THE FLOOR. CERTIFY THE BACKFLOW PREVENTER PER THE WATER COMPANY'S REQUIREMENTS.

16 P700 WATER SERVICE ENTRY DETAIL
N.T.S.



15 P700 TRENCH DRAIN DETAIL
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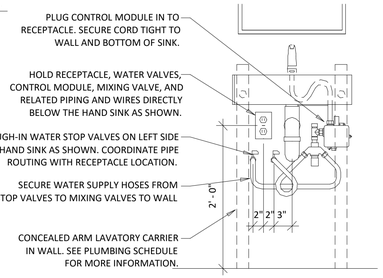

14 P700 RESTROOM HAND SINK DETAIL
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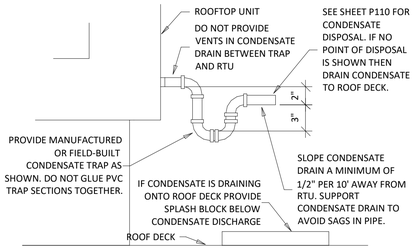

13 P700 RTU CONDENSATE TRAP DETAIL
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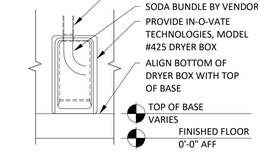

12 P700 SODA TERMINATION DETAIL
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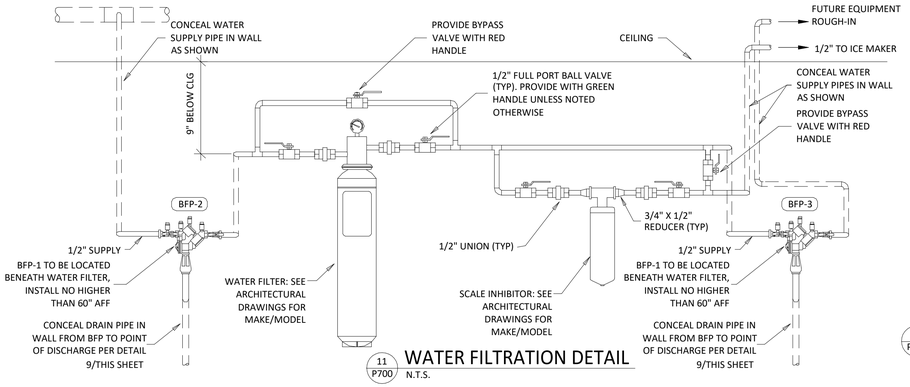

11 P700 WATER FILTRATION DETAIL
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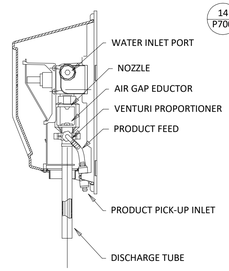

10 P700 CHEMICAL DISPENSER DETAIL
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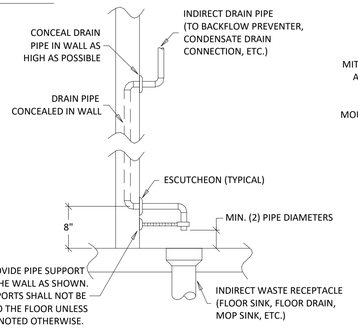
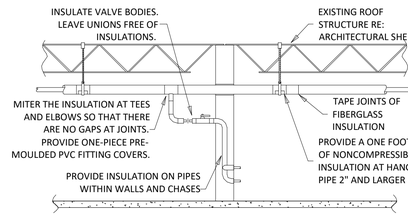
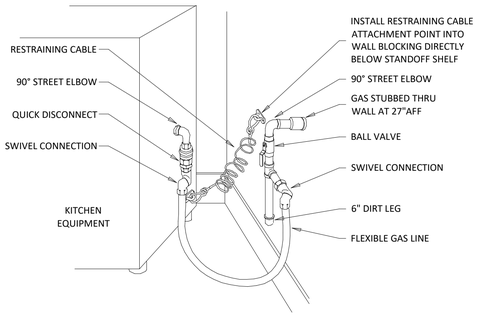


9 P700 INDIRECT WASTE PIPING DETAIL
N.T.S.



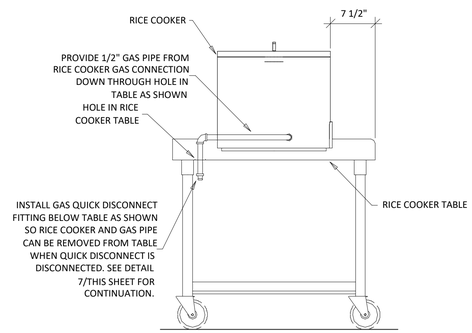
PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS OF SEALANT AND TAPE. FLAME SPREAD AND SMOKE-DEVELOPED INDEXES SHALL NOT EXCEED 25/50. SEAL EXPOSED ENDS OF FIBERGLASS INSULATION WITH ADHESIVE MASTIC. PROVIDE PREFORMED GLASS FIBER PIPE INSULATION WITH PRE-MOLDED PVC JACKETS, SLEEVES, AND FITTING COVERS ON EXPOSED WATER PIPE SO THAT EXPOSED WATER PIPE IS COVERED ENTIRELY WITH PVC INSULATION COVERS.

8 P700 PIPE INSULATION DETAIL
N.T.S.

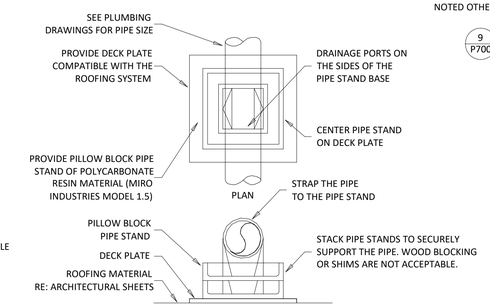


ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

7 P700 KITCHEN GAS EQUIPMENT DETAIL
N.T.S.

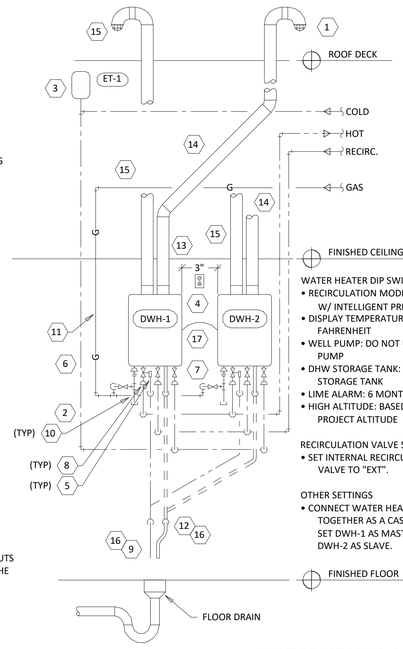


6 P700 RICE COOKER GAS CONNECTION DETAIL
N.T.S.



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.

5 P700 ROOFTOP PIPING SUPPORT
N.T.S.



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

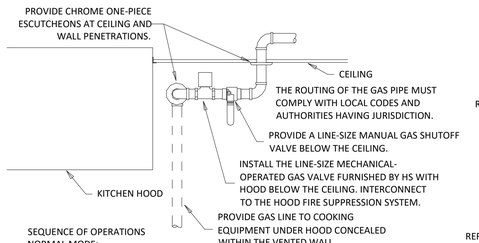
RECIRCULATION VALVE SETTING
- SET INTERNAL RECIRCULATION VALVE TO "EXT".

OTHER SETTINGS
- CONNECT WATER HEATERS TOGETHER AS A CASCADE SYSTEM. SET DWH-1 AS MASTER AND DWH-2 AS SLAVE.

1 P700 WATER HEATER DETAIL
N.T.S.

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 EXPOSED AND CONCEALED WATER PIPING TO WITHIN 3" OF THE 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 FLOOR DRAIN OR MOP BASIN. DRAIN THROUGH AN AIR GAP.
13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER WITHIN 12" OF THE FINISHED CEILING.
14. PROVIDE A 3"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.

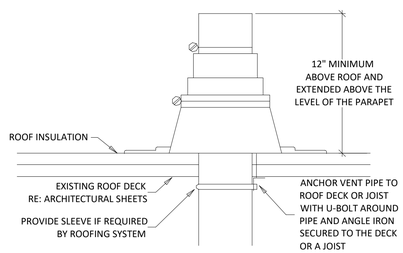
WATER HEATER GENERAL NOTES
A. CLEAN INLET STRAINERS AFTER CONSTRUCTION HAS BEEN COMPLETED AND PRIOR TO TURNOVER OF THE BUILDING TO THE TENANT.
B. INSTALL PIPING WITH AS FEW ELBOWS AS POSSIBLE.
C. MAINTAIN REQUIRED CLEARANCE TO COMBUSTIBLE MATERIALS.
D. ADJUST WATER HEATER TO A SETPOINT OF 120° F.



SEQUENCE OF OPERATIONS
NORMAL MODE:
- DURING NORMAL OPERATION THE GAS SHUT-OFF VALVE SHALL BE OPEN.

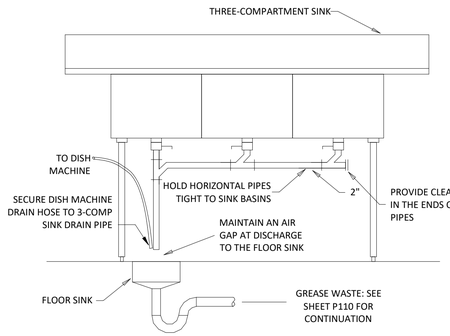
EMERGENCY MODE:
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

4 P700 KITCHEN GAS SHUTOFF DETAIL
N.T.S.



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
N.T.S.



2 P700 WARE-WASHING SINK DETAIL
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CMG 5494

Contents:
PLUMBING DETAILS

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CERTIFICATE OF AUTHORITY NO. 0016873

ELECTRICAL SPECIFICATIONS

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE PART 1 GENERAL
1. DEFINITIONS
   A. GFCI: Ground fault current interrupter.
   B. RMS: Root Mean Square
   C. SPDT: Single Pole, Double Throw
2. USE CHARGES
   B. Permanent Service: Coordinate with building owner 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 owner 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. 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 12S-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.
   G. All material shall be UL Listed.

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

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. 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.
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
1. For insulated conductors, comply with Division 16 Section "Wiring Methods."
2. Material: Copper.
3. Equipment Grounding Conductors: Insulated with green-colored insulation.
4. Grounding Electrode Conductors: Stranded cable.
5. Bare Copper Conductors: Comply with the following:
6. Solid Conductors: ASTM B 3.
7. 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

Revisions:

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.
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. 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.
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. 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.

1. RACEWAYS

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:

	208V	480V
Phase A:	Black	Brown
Phase B:	Red	Orange
Phase C:	Blue	Yellow
Neutral:	White	Gray
Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES PART 1 - GENERAL
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.

A. Snap Switches: Heavy-duty, quiet type.
B. Wall Plate: Per Material Schedule on sheet E010.
C. 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

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.
   D. PART 3 - EXECUTION

3.1 INSTALLATION
   A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permanently-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
. 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 Semi-recessed 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 MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
CONDUITS	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2" OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL CLAD CABLE
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GROUND	ELECTRICAL METALLIC TUBING
	LOW VOLTAGE, BELOW GRADE	RIGID NONMETTALIC CONDUIT (SCHEDULE 40 PVC)
WIRING DEVICES .	IN KITCHEN, OFFICE OR NON-PUBLIC SPACES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	IG OR IG/GFCI RECEPTACLES	GRAY DEVICE WITH STAINLESS STEEL COVER PLATE
	ON DRYWALL IN DINING ROOM	WHITE DEVICE WITH WHITE COVER PLATE
	ON HOT ROLLED STEEL OR RICHLITE	BLACK DEVICE WITH BLACK COVER PLATE
	IN RESTROOMS	WHITE DEVICE WITH WHITE COVER PLATE

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN WALL OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOMERUN TO PANELBOARD, CIRCUIT NUMBER SHOWN
- ① — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- DISCONNECT SWITCH: X = SWITCH RATING; Y = FUSE SIZE (NF = NON-FUSED); Z = NUMBER OF POLES
- J — JUNCTION BOX
- ELECTRICAL PANELBOARD
- $ — GENERAL PURPOSE 1-POLE SWITCH
- $M — MANUAL STARTER WITH PILOT LIGHT
- $OS — OCCUPANCY SENSOR ACTIVATED WALL SWITCH
- $D — WALL MOUNTED DIMMER SWITCH
- NEMA 5-20R 1- RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DOUBLE DUPLEX RECEPTACLE
- 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 PLAN FOR MORE INFORMATION.

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
UNO	UNLESS NOTED OTHERWISE
WP	WEATHERPROOF
COZAS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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 SHEET G000 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 DIMENSIONS, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.

J. DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.

K. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENG
BLACK LETTERING).

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1	09/09/24	OWNER CHANGES

Drawn: JJV
Checked: BW

Project No.: CMG 5494

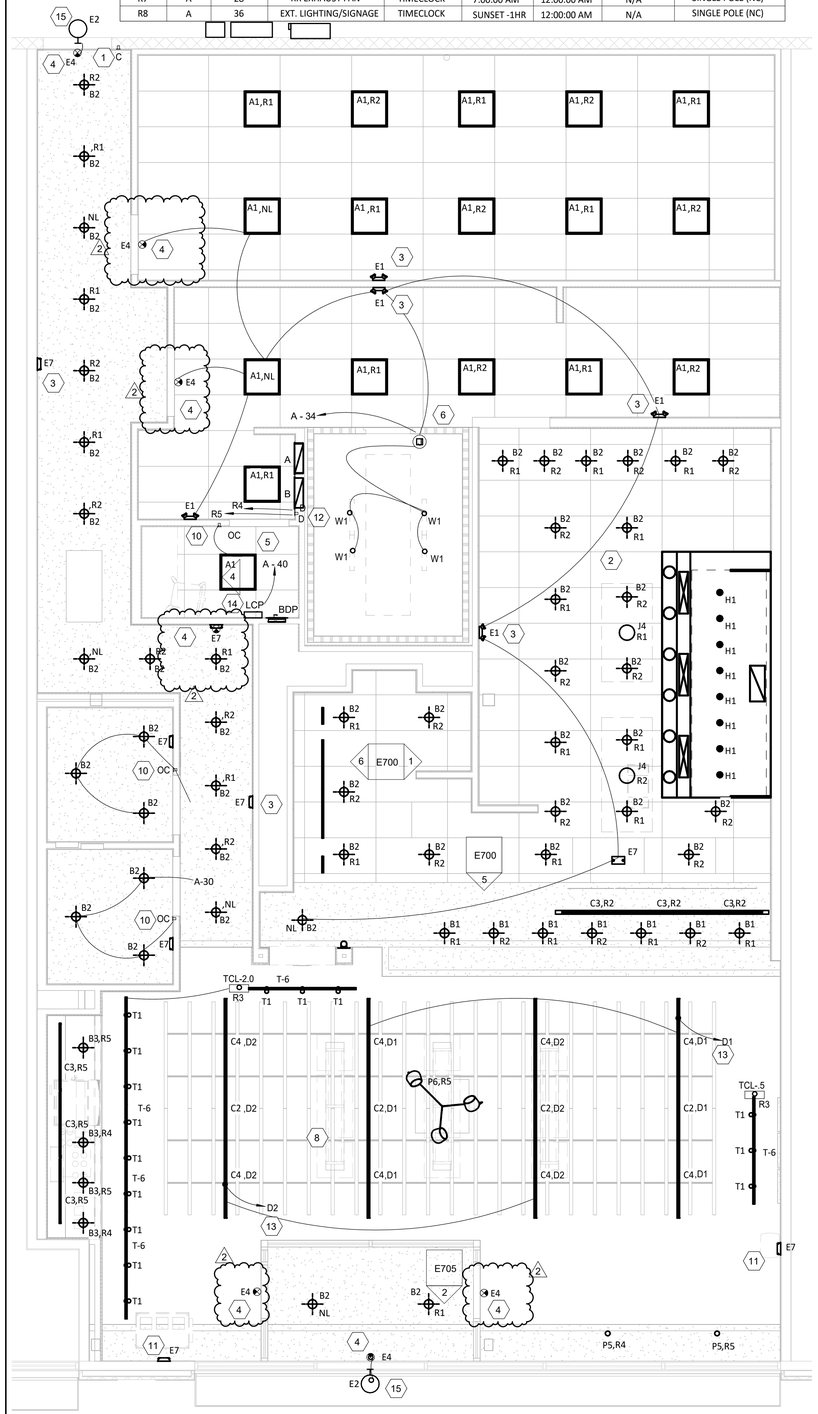
Contents:

ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	34	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	RR EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	36	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET -1HR	12:00:00 AM	N/A	SINGLE POLE (NC)



1 E100 **LIGHTING FLOOR PLAN**

1/4" = 1'-0"

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 PROVIDE DOUBLE-POLE SINGLE-THROW LIGHT SWITCH IN OFFICE FOR CONTROL OF OFFICE LIGHT AND RESTROOM EXHAUST FAN.

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 PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E700 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.

⑧ PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.

⑨ NOT USED.

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 WALL MOUNT THE EMERGENCY LIGHT FIXTURE AS SHOWN IN THE DINING ROOM INTERIOR ELEVATIONS ON SHEET E110.

⑫ INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD SQUARE LED. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.

⑬ CONNECT DINING ROOM (RELAY CIRCUITS R4, AND R5) SQUARE 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 INSTALL E2 REMOTE EMERGENCY HEAD LIGHT TO BOTTOM OF CANOPY. CONCEAL LOW VOLTAGE WIRING FROM EXIT SIGN TO REMOTE EMERGENCY LIGHT.

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 CPTLE1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$ C	WALL-MOUNTED CHELSEA 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	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	17	2x2 LED LENSED TROFFER	LAY-IN	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	7	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL with NTM-57W/M1 Trim	(1) 17W ECOSTORY ECO-PAR38C -17-GU24-27K-25D LED (25°-2700K) W/ GU 24 BASE	120	17	
B2	47	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	120	17	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/BLACK LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	120	12	BLACK LED TRIM FURNISHED WITH GU24 SOCKET
C0	2	LOW PROFILE LED - 1 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C1	4	LOW PROFILE LED - 2 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/22/WW	INTEGRAL 3000K LED	120	9	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	6	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	6	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	8	LOW PROFILE LED - 5 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/59/WW	INTEGRAL 3000K LED	120	18	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	5	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	TLS	GC	EXITRONIX	MLED1-B-WP	(1) SPECIAL LED	4	1	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN
E4	6	WHITE EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	CLED-U-WH	(1) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	8	EMERGENCY LIGHT	VARIOUS	TLS	GC	EXITRONIX	EV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
H1	8	HOOD LIGHT	SURFACE	THS/TLS	THS	FIXTURE FURNISHED WITH HOOD	FURNISHED WITH HOOD	(1) TCP L16A19N1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	SURFACE	TLS	GC	BARNLIGHT	BLE-C-CPT10-ASH-100-S BK-100-CAW	GREEN CREATIVE 9A19DIM/927/GU24/R	120	9	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P5	2	PENDANT	PENDANT	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	120	5	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	PENDANT	TLS	GC	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	120	30	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CAN OPY AND STANDARD BLACK CABLES
T1	14	TRACK HEAD	TRACK	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	120	10	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FEET)	SUSPENDED	TLS	GC	JUNO	T 6FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
T-8	0	TRACK (8 FEET)	SUSPENDED	TLS	GC	JUNO	T 8FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
X9	0	LED CHANNEL LIGHT	SUSPENDED	TLS	GC	PARADIGM LED	PL-AMC-2415 W/ OPAL LENS AND END CAPS	PL-FLEXSR590-WW-WP-3000K	120		FURNISHED W/ REMOTE-MOUNTED NEMA 3R DIMMABLE PL-PS-M100-DIM-24 LED DRIVER. SEE PLAN FOR LENGTHS.
TCL-0.5	1	CURRENT LIMITER (60W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
TCL-2	1	CURRENT LIMITER (240W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED

LIGHTING FIXTURE SCHEDULE NOTES
A. FLUORESCENT LAMPS NOT INCLUDED WITH THE FIXTURES RE TO BE MANUFACTURED BY SYLVANIA UNLESS OTHERWISE NOTED. PHILIPS FLUORESCENT LAMPS WILL BE AN ACCEPTABLE ALTERNATE.
B. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.
C. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

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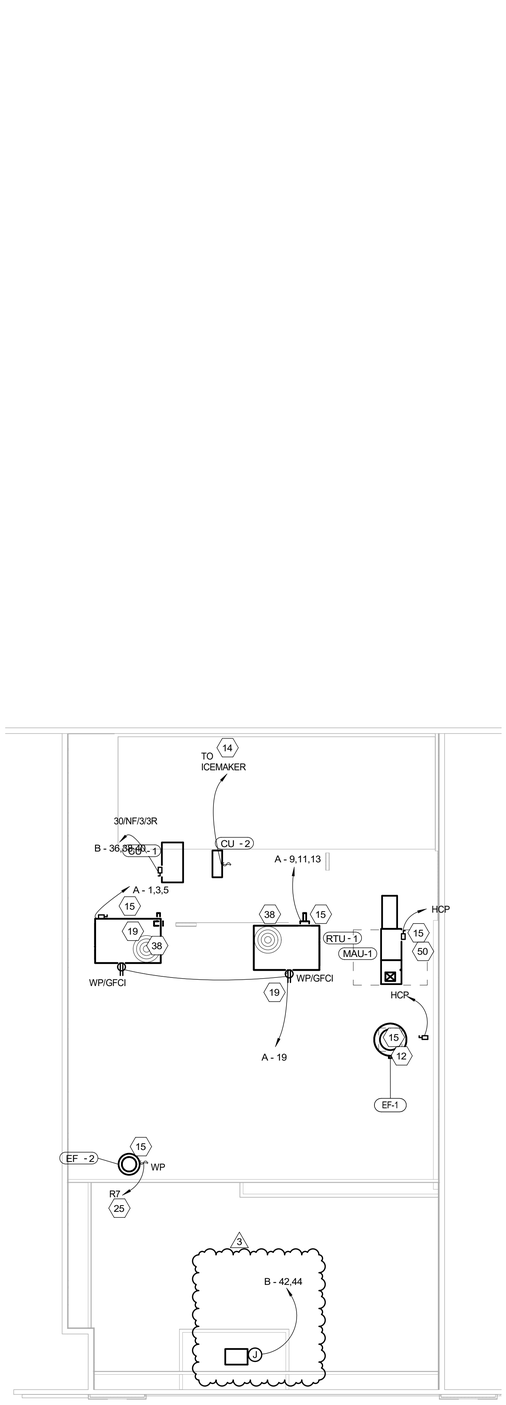
CMG 5494

Contents:
ELECTRICAL
LIGHTING PLAN

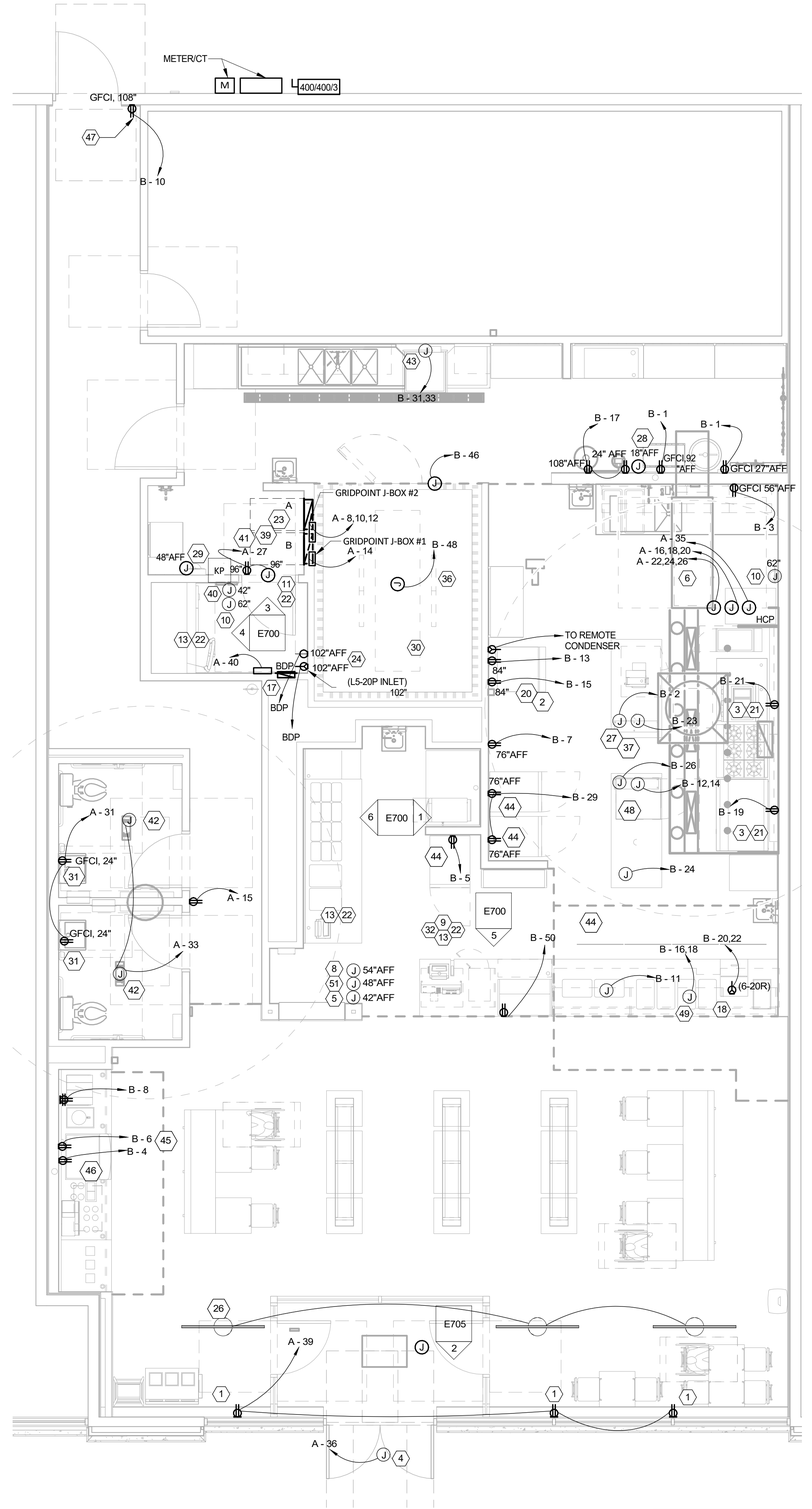
E100

ELECTRICAL POWER PLAN NOTES

1. SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E705.
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 6-20P 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 5/E710.
5. PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE ANSUL 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 ANSUL SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.
6. HOOD CONTROL PANEL AND ANSUL 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. NOT USED.
8. PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL THE CAT5 VOLUME CONTROL WIRE FURNISHED BY THE TENANT 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 AND INSTALL LAUNCHPORT FURNISHED BY CHIPOTLE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS 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 AN EMPTY 2" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.
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 CONDENSER CU-2.
15. UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.
16. INSTALL DOOR CHIME AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION.
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 AND NEXT TO PREP TABLE. 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 OWNER. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN AND TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END. THERE SHALL BE TWO SPEAKER WIRE HOMERUNS WITH TWO SPEAKERS ON EACH HOMERUN. 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.
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. NOT USED.
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 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.



2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"



1 E110 **POWER FLOOR PLAN**
1/4" = 1'-0"

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10/17/2024

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CMG 5494

Contents:
ELECTRICAL POWER PLAN

E110

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CERTIFICATE OF AUTHORITY NO. 0016873

Branch... BDP

Location: | **Volts:** 120 | **A.I.C. Rating:**
Supply From: | **Phases:** 1 | **Mains Type:** Lugs
Mounting: | **Wires:** 2 | **Mains...** 20
Enclosure:

Notes:

CKT	Circuit Description	TYPE	Trip	Pole	Load
1	POS		15 A	1	500 VA
2	DML POS		15 A	1	500 VA
3	DML ORDERING SYSTEM		15 A	1	720 VA
4	OFFICE NETWORK GEAR		15 A	1	500 VA
5	OFFICE COMPUTER		15 A	1	360 VA
6	OFFICE DVR/ISP	GFCI	15 A	1	360 VA
				CH	1000 VA
				Total...	

Legend:

Notes:

JOB NAME: **PANELBOARD:** A

VOLTS : 120/208 Wye
PHASE : 3
WIRES: 4
MLO: 400
MCB: 400
SOURCE:

MOUNTING: Recessed
TYPE: Type 1
FEED THRU LUGS(Y/N): Y
SERIES RATED(Y/N):
SHUNT TRIP MAIN:
MINIMUM AIC RATING: 65KAIC

BUS MATERIAL: CU
TOP OR BOTTOM FEED:
GROUND BUS:
BRANCH BREAKERS:
S.E. RATED(Y/N):
NEUTRAL RATING(%):

CKT#	AMP	Pole	TYPE	Load Name	KVA	A	B	C	KVA	Load Name	TYPE	Pole	AMP	CKT#
1,3,5	60 A	3	HACR	AIR CONDITIONER - KITCHEN (RTU-1) (3-#8, #10 G. in 3/4" C.) SHUNT TRIP	15.1 kVA	5040 VA / 0 VA	5040 VA / 0 VA	5040 VA / 0 VA	0.0 kVA	TVSS (4-#6, #10 G. IN 1" C.)		3	60 A	2,4,6
7	--	1	--	SHUNT TRIP	--	0 VA / 0 VA								
9,11,13	60 A	3	HACR	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#8, #10 G. in 3/4" C.)	17.6 kVA		5880 VA / 0 VA	5880 VA / 0 VA	0.0 kVA	GRIDPOINT 3 PHASE METE (4-#12, #12 G. IN 3/4" C.)		3	20 A	8,10,12
						5880 VA / 200 VA			0.2 kVA	GRIDPOINT TRANSFORMER		1	20 A	14
15	20 A	1		RECEPTACLES - DINING	0.5 kVA		500 VA / 1200 VA		3.6 kVA	HOOD EXHAUST FAN (EF□1) (3□#10, #10 G. IN 3/4" C)		3	30 A	16,18,20
17	20 A	1		BDP	0.0 kVA			0 VA / 1200 VA						
19	20 A	1		CONV REC	1.0 kVA	1000 VA / 1200 VA								
21	20 A	1		REC POS	1.5 kVA		1500 VA / 708 VA		2.1 kVA	HOOD MAKEUP AIR FAN (MAU□1) (3□#12, #12 G. IN 3/4" C)		3	15 A	22,24,26
23	20 A	1		AUDIO	0.5 kVA			500 VA / 708 VA						
25	20 A	1		SECURITY/	0.5 kVA	500 VA / 708 VA								
27	20 A	1	GFCI	OFFICE REC	1.2 kVA		1220 VA / 0 VA		0.0 kVA	RESTROOM FAN		1	20 A	28
29	20 A	1	GFCI	RECEPTACLES - DML	1.2 kVA			1220 VA / 601 VA	0.6 kVA	DINING LTG		1	20 A	30
31	20 A	1		RESTROOM REC	1.0 kVA	1000 VA / 642 VA			0.6 kVA	KITCHEN LTG	GFCI	1	20 A	32
33	20 A	1		BATHROOM SANITIZER	1.0 kVA		1000 VA / 684 VA		0.7 kVA	KITCHEN BOH LTG		1	20 A	34
35	15 A	1		HD-1 CONTOL AND LIGHTS	0.1 kVA			100 VA / 500 VA	0.5 kVA	STOREFRONT SIGN		1	20 A	36
37	20 A	1	--	SPARE	--	0 VA / 1060 VA			1.1 kVA	EXTERIOR LTG		1	20 A	38
39	20 A	1		SHOW WINDOW REC	1.5 kVA		1500 VA / 100 VA		0.1 kVA	LCP		1	20 A	40
41	20 A	1	--	SPARE	--			0 VA / 0 VA	--	SPARE	--	1	20 A	42
43	20 A	1	--	SPARE	--	0 VA / 0 VA			--	SPARE	--	1	20 A	44
45	20 A	1	--	SPARE	--		0 VA / 0 VA		--	SPARE	--	1	20 A	46
47	20 A	1	--	SPARE	--			0 VA / 0 VA	0.0 kVA	SITE LIGHTING		2	20 A	48,50
49	20 A	1	--	SPARE	--	0 VA / 0 VA								
51	20 A	1	--	SPARE	--		0 VA / 500 VA		0.5 kVA	MONUMENT SIGN		1	20 A	52
53	20 A	1	--	SPARE	--			0 VA / 174 VA	0.2 kVA	EMERGENCY/EGRESS/NIGHT LIGHTS		1	20 A	54
55	20 A	1	--	SPARE	--	0 VA / 0 VA			--	SPARE	--	1	20 A	56
57	20 A	1	--	SPARE	--		0 VA / 0 VA		--	SPARE	--	1	20 A	58
59	20 A	1	--	SPARE	--			0 VA / 0 VA	--	SPARE	--	1	20 A	60
				CONNECTED LOAD:		37.8 kVA	33.1 kVA	33.5 kVA						
				CONNECTED AMPS:		315.4 A	275.6 A	279.4 A						

				PANEL TOTALS`	
LIGHTING	6359 VA		7949 VA		
RECEPTACLE	3900 VA		3900 VA		
KITCHEN	57380 VA		37297 VA		
MOTOR	2124 VA		2655 VA	**TOTAL CONNECTED LOAD:**	289 A
WATER HEATER				**TOTAL ESTIMATED DEMAND:**	86063 VA
HVAC	32760 VA		32760 VA	**TOTAL EST. DEMAND CURRENT:**	239 A

JOB NAME: **PANELBOARD:** B

VOLTS : 120/208 Wye
PHASE : 3
WIRES: 4
MLO: 400
MCB:
SOURCE:

MOUNTING: Recessed
TYPE: Type 1
FEED THRU LUGS(Y/N): --
SERIES RATED(Y/N):
SHUNT TRIP MAIN:
MINIMUM AIC RATING: 65KAIC

BUS MATERIAL: CU
TOP OR BOTTOM FEED:
GROUND BUS:
BRANCH BREAKERS:
S.E. RATED(Y/N):
NEUTRAL RATING(%):

CKT#	AMP	Pole	TYPE	Load Name	KVA	A	B	C	KVA	Load Name	TYPE	Pole	AMP	CKT#
1	20 A	1	GFCI	CARBONATOR/CO2 ALARM	1.0 kVA	1000 VA / 1400 VA			1.4 kVA	FOOD PREP TABLE (ISLAND)		1	20 A	2
3	20 A	1		FOOD PREP TABLE	0.5 kVA		500 VA / 500 VA		0.5 kVA	SODA SYSTEM DISPENSER	GFCI	1	20 A	4
5	20 A	1		-REC	0.5 kVA			500 VA / 500 VA	0.5 kVA	ICE MAKER - UTENSIL COUNTER	GFCI	1	20 A	6
7	20 A	1		FUTURE EQUIPMENT	0.5 kVA	500 VA / 500 VA			0.5 kVA	BUBBLER	GFCI	1	20 A	8
9	20 A	1	GFCI	READY TO DRINK	0.5 kVA		500 VA / 500 VA		0.5 kVA	UV INSECT LIGHT TRAP	GFCI	1	20 A	10
11	20 A	1		COLD TOP (SERVE LINE)	1.4 kVA			1400 VA / 1000 VA	2.0 kVA	CARVING STATION		2	20 A	12,14
13	20 A	1	GFCI	ICE MAKER SANITIZER	0.5 kVA	500 VA / 1000 VA								
15	20 A	1	GFCI	ICE MAKER	0.5 kVA		500 VA / 2100 VA		4.2 kVA	HOT FOOD SERVER (SERVE LINE) (2□#10, #10 N, #10 G. in 3/4" C.)		2	30 A	16,18
17	20 A	1	GFCI	WATER HEATERS	1.0 kVA			1000 VA / 2100 VA						
19	20 A	1	GFCI	GAS GRIDDLE	0.5 kVA	500 VA / 1400 VA			2.8 kVA	TORTILLA PRESS (SERVE LINE) (2-#10, #10 G. in 3/4" C.)	GFCI	2	20 A	20,22
21	20 A	1	GFCI	GAS FRYER	0.5 kVA		500 VA / 1400 VA							
23	15 A	1		FOOD WARMER (RICE TABLE	1.5 kVA			1500 VA / 800 VA	0.8 kVA	FUTURE EQUIPMENT		1	20 A	24
25,27	20 A	2	GFCI	TORTILLA PRESS (DML) (2-#10, #10 G. IN 3/4" C.)	2.6 kVA	1300 VA / 300 VA			0.3 kVA	REFRIGERATOR (COOK LINE)		1	20 A	26
							1300 VA / 1040 VA		2.1 kVA	HOT FOOD SERVER (DML) (2□#10, #10 N, #10 G. in 3/4" C.)	GFCI	2	20 A	28,30
29	20 A	1	GFCI	UPRIGHT REFRIGERATOR	1.0 kVA			1000 VA / 1040 VA						
31,33	30 A	2		DISH MACHINE (2-#10, #10 G. IN 3/4" C.)	6.0 kVA	3000 VA / 1404 VA			1.4 kVA	FOODWARMER (DML)	GFCI	1	20 A	32
							3000 VA / 500 VA		0.5 kVA	COLD TOP (DML)	GFCI	1	20 A	34
35,37	30 A	2	GFCI	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	5.8 kVA			2900 VA / 900 VA	2.7 kVA	CU-1 (3-#10, #10 G. IN 3/4" C.)		3	15 A	36,38,40
						2900 VA / 900 VA								
39							0 VA / 900 VA							
41,43	30 A	2	GFCI	QUESADILLA MAKER (2-#10, #10 G. IN 3/4" C.)	5.8 kVA			2900 VA / 0 VA						42
						2900 VA / 0 VA								44
45	20 A	1	--	SPARE	--		0 VA / 0 VA		0.0 kVA	WIC - DOOR		1	20 A	46
47	20 A	1	--	SPARE	--			0 VA / 0 VA	0.0 kVA	WIC - EVAPORATOR		1	20 A	48
49	20 A	1	--	SPARE	--	0 VA / 1056 VA			1.1 kVA	READY TO DRINK REFRIGERATOR	GFCI	1	20 A	50
51	20 A	1	--	SPARE	--		0 VA / 0 VA		--	SPARE	--	1	20 A	52
53	20 A	1	--	SPARE	--			0 VA / 0 VA	--	SPARE	--	1	20 A	54
				CONNECTED LOAD:		20.6 kVA	13.2 kVA	17.5 kVA						
				CONNECTED AMPS:		176.8 A	110.3 A	151.7 A						

				PANEL TOTALS`	
LIGHTING	0 VA		0 VA		
RECEPTACLE	500 VA		500 VA		
KITCHEN	50840 VA		33046 VA		
MOTOR				**TOTAL CONNECTED LOAD:**	143 A
WATER HEATER				**TOTAL ESTIMATED DEMAND:**	33546 VA
HVAC				**TOTAL EST. DEMAND CURRENT:**	93 A

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Contents:

ELECTRICAL SCHEDULES

E600

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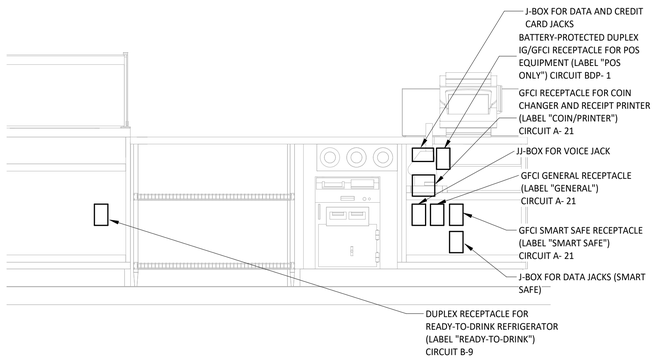
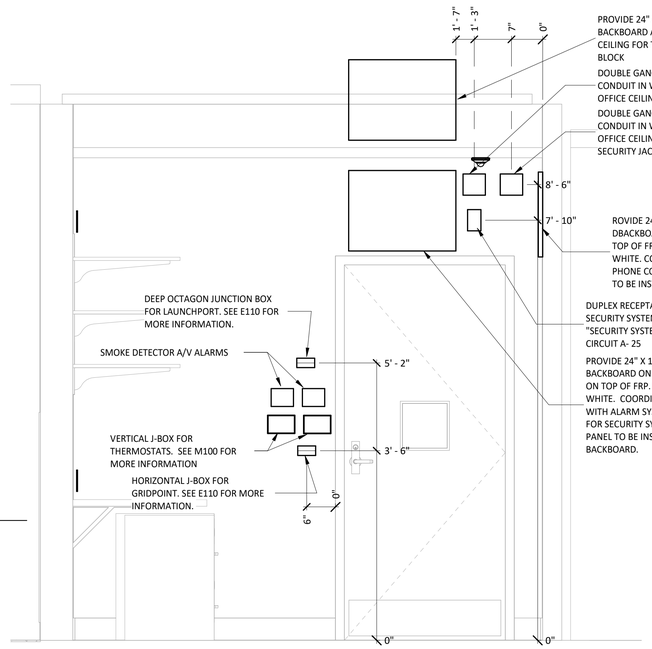
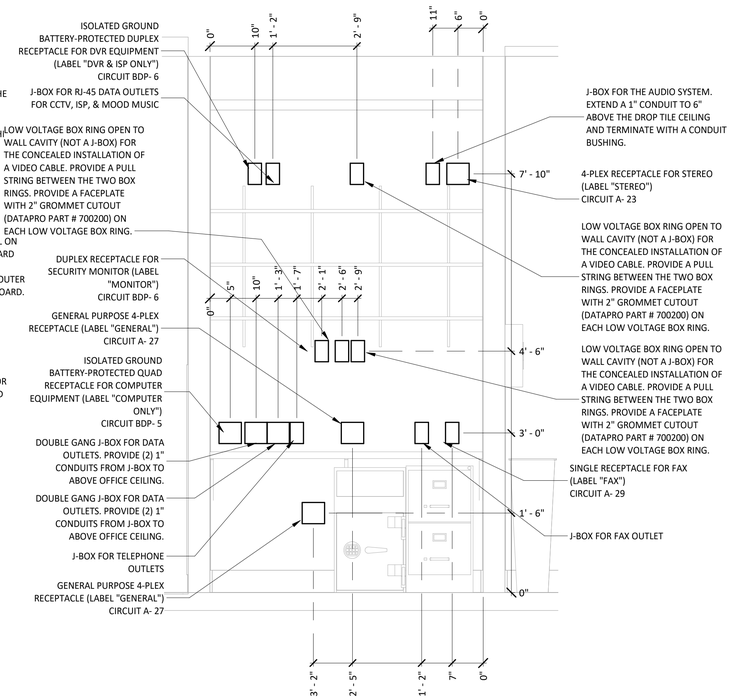
CERTIFICATE OF AUTHORITY NO. 0016873



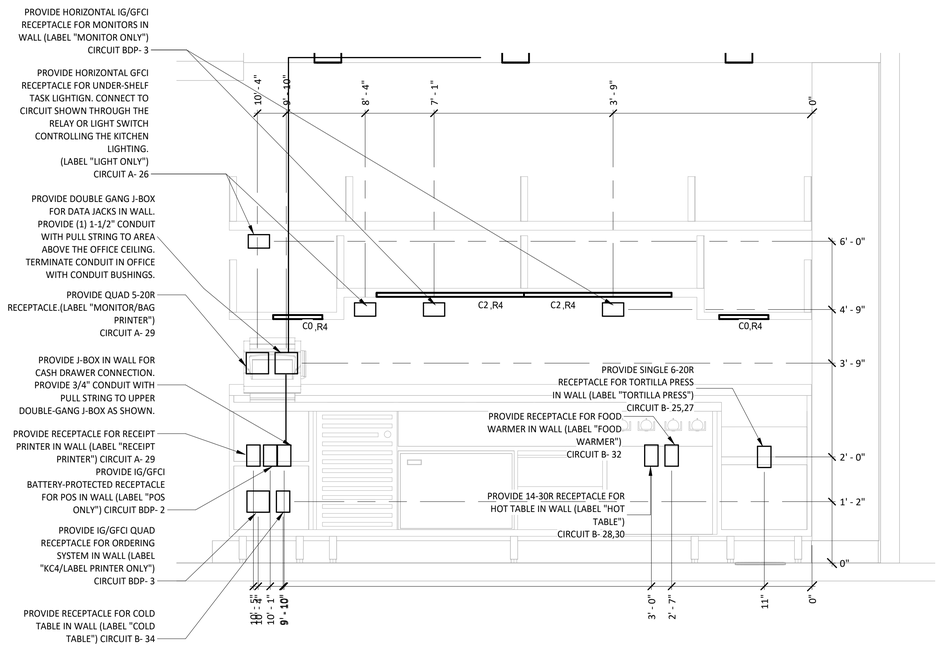
5 E700 **POS COUNTER ELECTRICAL ELEVATION**
3/4" = 1'-0"



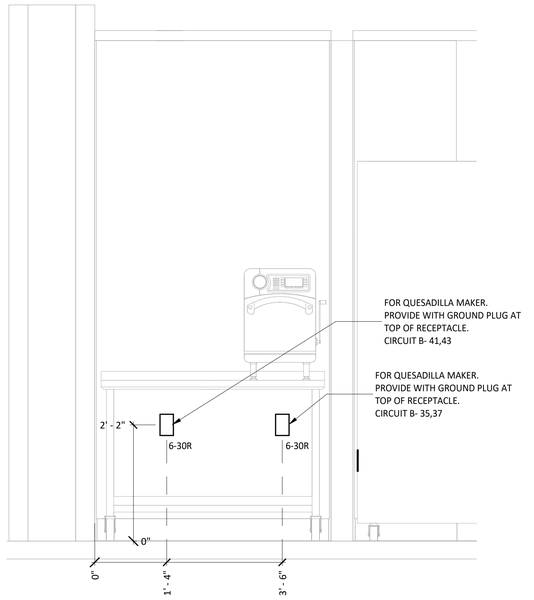
3 E700 **OFFICE DOOR ELECTRICAL ELEVATION**
3/4" = 1'-0"



4 E700 **OFFICE DESK ELECTRICAL ELEVATION**
3/4" = 1'-0"



6 E700 **SML ELECTRICAL ELEVATION**
3/4" = 1'-0"



1 E700 **COLD SML ELECTRICAL ELEVATION**
3/4" = 1'-0"

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Checked: BW

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CMG 5494

Contents:
ELECTRICAL INTERIOR ELEVATIONS

E700

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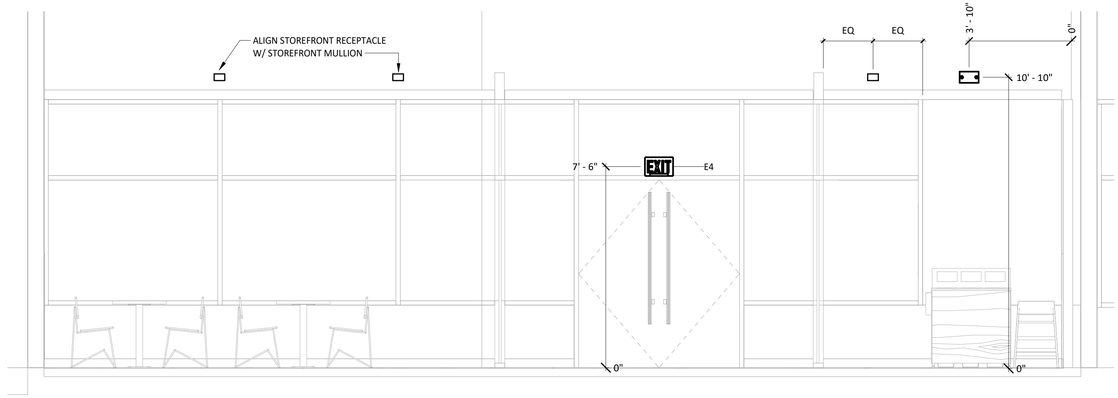

2 E705 DINING ROOM ELECTRICAL ELEVATION

3/8" = 1'-0"

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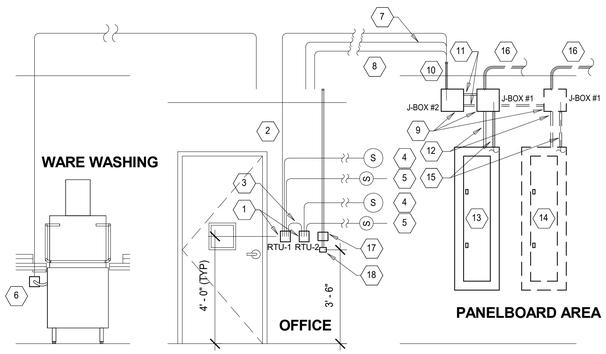
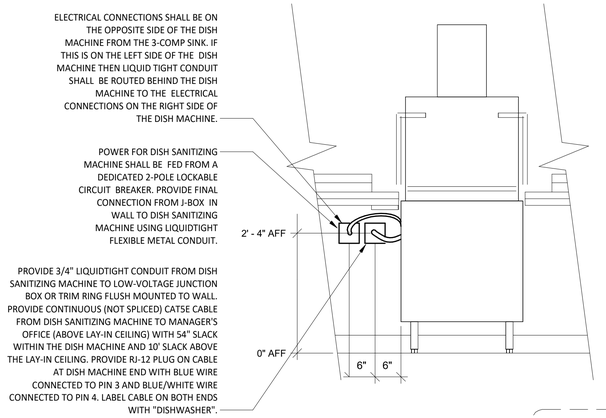
GRIDPOINT DIAGRAM NOTES

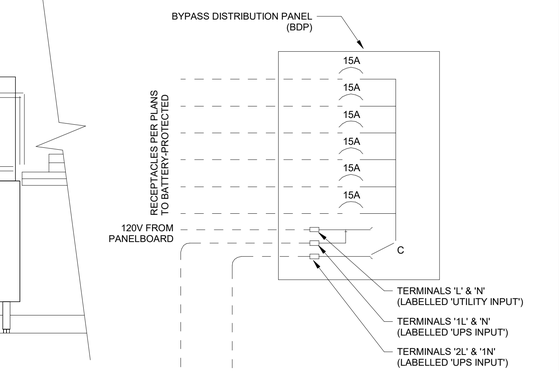
1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER)
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.



8 E710 — **GRIDPOINT WIRING DIAGRAM**
NTS

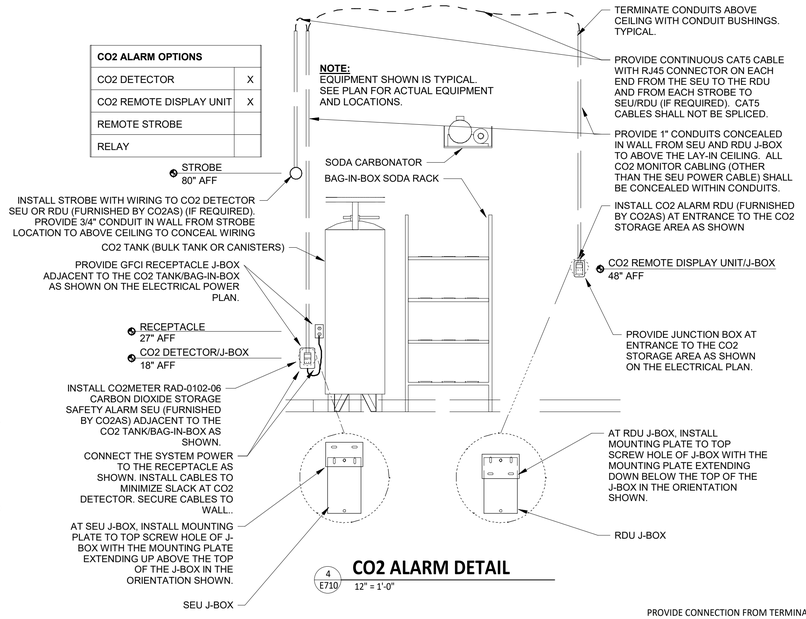


7 E710 — **DISH SANTIZING MACHINE ELECTRICAL DETAIL**
NTS



3 E710 — **BYPASS DISTRIBUTION PANEL WIRING DIAGRAM**
12" = 1'-0"

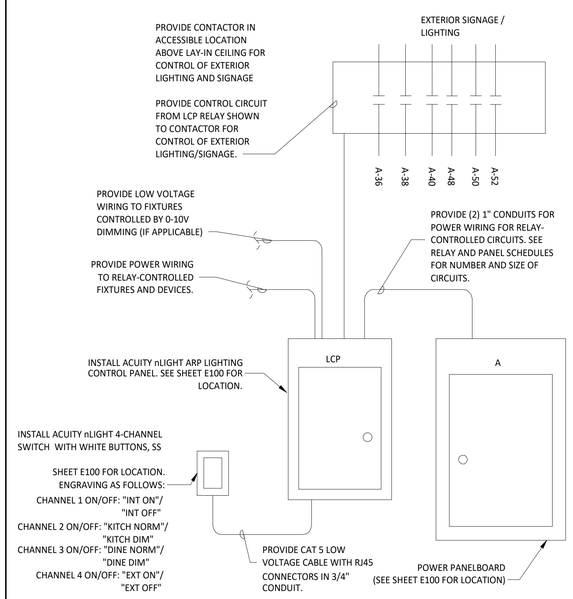
CO2 ALARM OPTIONS	
CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	



4 E710 — **CO2 ALARM DETAIL**
12" = 1'-0"

3 Phase Short Circuit Calculation

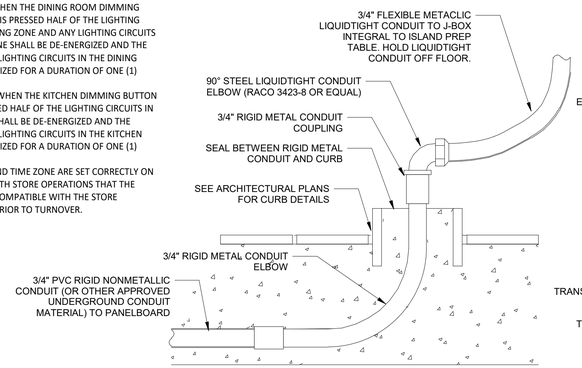
A_x	I_{sc} at Source	65000	f =	2.1976	
	Conductor C Value	19703	M =	0.3127	
	#. of Conductor/Phase	1	I_{sc}	20328	B_x
	Length of Feeder	80			
	Line to Line Voltage	208			



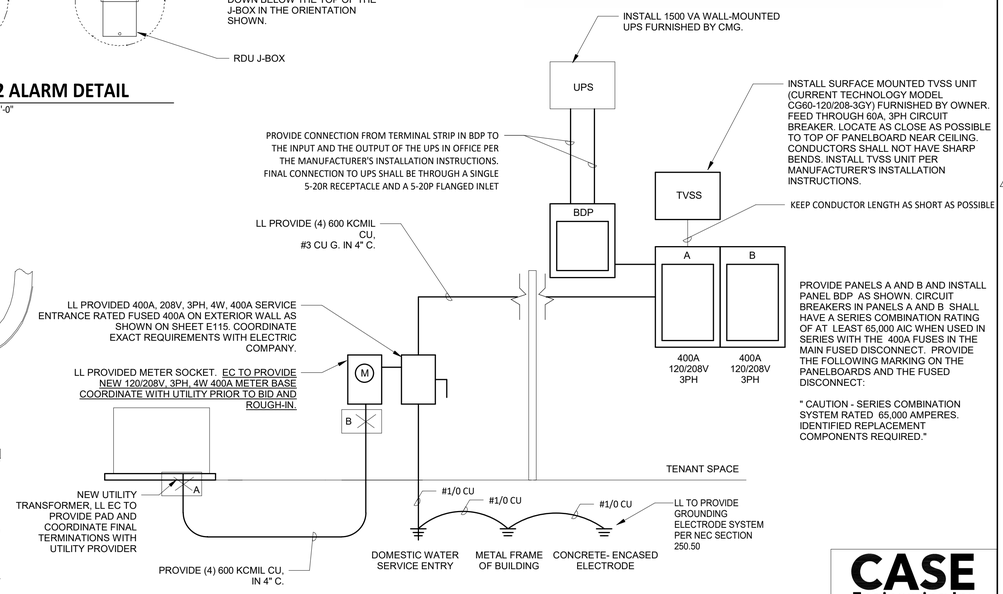
6 E710 — **INTERIOR LIGHTING CONTROL DIAGRAM**
12" = 1'-0"

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 SHALL BE ENERGIZED FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED (BUTTONS 1-2) THE SYSTEM WILL GO INTO OVERRIDE MODE FOR ONE (1) HOUR OR AS NOTED BELOW. DURING THIS TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON. IF AN "ON" BUTTON IS PRESSED THEN ALL OF THE CONTROLLED FIXTURES IN THE CORRESPONDING ZONE WILL REMAIN ENERGIZED FOR THE DURATION OF THE OVERRIDE PERIOD. IF AN "OFF" BUTTON IS PRESSED THEN ALL OF THE CONTROLLED FIXTURES IN THE CORRESPONDING ZONE WILL REMAIN DE-ENERGIZED UNTIL THE NEXT SCHEDULED EVENT OR "ON" OVERRIDE ENERGIZES THE ZONE.
F. DINING DIMMING: WHEN THE DINING ROOM DIMMING BUTTON (BUTTON 3) IS PRESSED HALF OF THE LIGHTING CIRCUITS IN THE DINING ZONE AND ANY LIGHTING CIRCUITS IN THE DAYLIGHT ZONE SHALL BE DE-ENERGIZED AND THE OTHER HALF OF THE LIGHTING CIRCUITS IN THE DINING ZONE WILL BE ENERGIZED FOR A DURATION OF ONE (1) HOUR.
G. KITCHEN DIMMING: WHEN THE KITCHEN DIMMING BUTTON (BUTTON 4) IS PRESSED HALF OF THE LIGHTING CIRCUITS IN THE KITCHEN ZONE SHALL BE DE-ENERGIZED AND THE OTHER HALF OF THE LIGHTING CIRCUITS IN THE KITCHEN ZONE WILL BE ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. VERIFY THAT TIME AND TIME ZONE ARE SET CORRECTLY ON BLUE BOX. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.



2 E710 — **PEDESTAL OUTLET DETAIL**
12" = 1'-0"



1 E710 — **MAIN DISTRIBUTION DIAGRAM**
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