REGULATORY AGENCIES & UTILITIES

ZONING DEPARTMENT:
PLANNING DIVISION
450 CIVIC CENTER PLAZA, 2ND FLOOR
RICHMOND, CA 94804
LINA VELASCO
E: LINA_VELASCO@CI.RICHMOND.CA.US
T: (510) 620-6706

BUILDING DEPARTMENT:
BUILDING DIVISION
450 CIVIC CENTER PLAZA, 2ND FLOOR
RICHMOND, CA 94804
GEORGE KABAIVANOV
E: GEORGE_KABAIVANOV@CI.RICHMOND.CA.US
T: (510) 620-5519

HEALTH DEPARTMENT:
CONTRA COSTA ENVIRONMENTAL
HEALTH DEPARTMENT
2120 DIAMOND BOULEVARD SUITE 100
CONCORD, CA 94520
E: PLANREVIEW@CCHEALTH.ORG
T: (925) 608-5500

FIRE DEPARTMENT:
RICHMOND FIRE DEPARTMENT
440 CIVIC CENTER PLAZA
RICHMOND, CA 94804
T: (510) 307-8037

WATER UTILITY:
EAST BAY MUNICIPAL UTILITY DISTRICT
375 ELEVENTH AVENUE
OAKLAND, CA 94607
E: NBO@EBMUD.COM
T: (866) 403-2683

SEWER UTILITY:
EAST BAY MUNICIPAL UTILITY DISTRICT
375 ELEVENTH AVENUE
OAKLAND, CA 94607
E: NBO@EBMUD.COM
T: (866) 403-2683

GAS UTILITY:
PACIFIC GAS & ELECTRIC
S MANTHEY RD & CAROLYN WESTON BLVD
STOCKTON, CA 95206
T: (877) 743-7782

ELECTRICAL UTILITY:
PACIFIC GAS & ELECTRIC
S MANTHEY RD & CAROLYN WESTON BLVD
STOCKTON, CA 95206
T: (877) 743-7782

TELEPHONE UTILITY:
TBD

SIGN VENDOR

LOREN INDUSTRIES
12226 COAST DR.
WHITTIER, CA 90601
CONTACT: DAN LORENZON
E: DAN.L@LORENINDUSTRIES.COM
T: (562) 946-7545

UTILITY COORDINATOR

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

GAUCHER & ASSOCIATES, INC.
2060 BALDWIN CT.
SEASIDE, CA 93955
CONTACT: AMY PY NG
E: AMY@GAUCHERINC.COM
T: (831) 383-7233

GRAPHIC SYMBOLS

EXTERIOR ELEVATION MARKER
INTERIOR ELEVATION MARKER
SECTION MARKER
SECTION / DETAIL
VIEW LABEL
COLUMN GRID LABEL
ROOM NAME & NUMBER
REVISION NUMBER
DOOR NUMBER
MISCELLANEOUS EQUIPMENT NUMBER
FURNITURE NUMBER
KITCHEN EQUIPMENT NUMBER
WASHROOM ACCESSORIES NUMBER
WALL TAG
LEVEL TARGET
NORTH ARROW
DIMENSION TARGET
FINISH TAG

ABBREVIATIONS

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

STORE NUMBER: 04-4825

RICHMOND PKWY & I-80
4200 KLOSE WAY, SUITE B
RICHMOND, CA 94806

PROJECT DIRECTORY

ARCHITECT OF RECORD:
INTERIOR ARCHITECTS, INC.
A CALIFORNIA CORPORATION
JASON COATS
LICENSE # C-39837
500 SANSOME, 8TH FLOOR
SAN FRANCISCO, CA 94111
T: (415) 434-3305

ARCHITECT PROJECT CONTACT
INTERIOR ARCHITECTS
MELISSA STONIKINIS
1217 SANSOM ST. 8TH FLOOR
PHILADELPHIA, PA 19107
E: M.STONIKINIS@INTERIORARCHITECTS.COM
T: (267) 439-4887

CLIENT CONTACT:
CHIPOTLE MEXICAN GRILL
PO BOX 182566
COLUMBUS, OH 43218-2566
CONTACT: SCOTT MURDOCK
E: SMURDOCK@CHIPOTLE.COM
T: (805) 404-5607

LANDLORD:
SITE CENTERS
3300 ENTERPRISE PKWY,
BEACHWOOD, OH 44122
CONTACT: ROB GRAY, SENIOR MANAGER
E: RGRAY@SITECENTERS.COM
T: (602) 358-2260

STRUCTURAL ENGINEER:
BRITT, PETERS & ASSOCIATES, INC.
999 WATERSIDE DRIVE, SUITE 2202
NORFOLK, VA 23510
CONTACT: GARRETT JOHNS
E: GJOHNS@BRITTPETERS.COM
T: (225) 235-4027

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

CODE REFERENCES

BUILDING CODE:	2022 CALIFORNIA BUILDING CODE
EXISTING BUILDING CODE:	2022 CALIFORNIA EXISTING BUILDING CODE
MECHANICAL CODE:	2022 CALIFORNIA MECHANICAL CODE
PLUMBING CODE:	2022 CALIFORNIA PLUMBING CODE
ENERGY CODE:	2022 CALIFORNIA ENERGY CODE
SUSTAINABILITY:	2022 CALIFORNIA GREEN BUILDING STANDARDS CODE
ELECTRICAL CODE:	2022 CALIFORNIA ELECTRICAL CODE
FIRE CODE:	2022 CALIFORNIA FIRE CODE
ACCESSIBLITY:	CHAPTER 11B OF CALIFORNIA BUILDING CODE
FOOD/RESTAURANT CODE	2022 CALIFORNIA RETAIL FOOD CODE

GENERAL NOTES

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

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

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

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

DEFINITIONS

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

HAZARDOUS MATERIAL NOTES

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

FURNITURE, FLOOR CORE & LIGHTING COORDINATION

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

SHEET INDEX

DRAWING INDEX

SHEET NO.	SHEET NAME
GENERAL	
G000	COVER SHEET
G000a	SPECIAL INSPECTION FORM
G000b	C&D WASTE RECYCLING FORM
G001	PROJECT DATA & LIFE SAFETY PLAN
G002	ACCESSIBILITY REQUIREMENTS
G003	ACCESSIBILITY REQUIREMENTS
G004	ACCESSIBILITY REQUIREMENTS
G005	CAL GREEN STANDARDS
G006	CAL GREEN STANDARDS
G007	CAL GREEN STANDARDS
G010	ARCHITECTURAL SPECIFICATIONS
G011	ARCHITECTURAL SPECIFICATIONS
G012	ARCHITECTURAL SPECIFICATIONS
G013	ARCHITECTURAL SPECIFICATIONS
G014	ARCHITECTURAL SPECIFICATIONS
G015	ARCHITECTURAL SPECIFICATIONS
G016	ARCHITECTURAL SPECIFICATIONS
G017	ARCHITECTURAL SPECIFICATIONS
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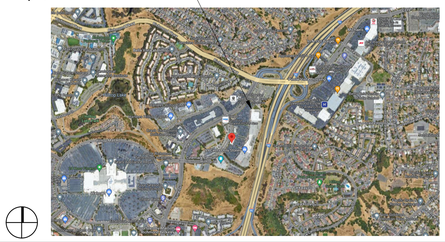
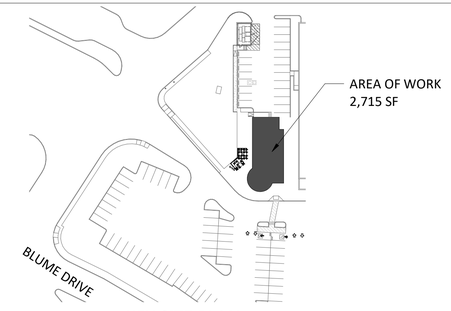
G024	ARCHITECTURAL SPECIFICATIONS
G025	ARCHITECTURAL SPECIFICATIONS
G026	ARCHITECTURAL SPECIFICATIONS
G027	ARCHITECTURAL SPECIFICATIONS
G028	ARCHITECTURAL SPECIFICATIONS
G029	ARCHITECTURAL SPECIFICATIONS
G030	ARCHITECTURAL SPECIFICATIONS
SITE PLAN	
SP100	ARCHITECTURAL SITE PLAN
ARCHITECTURAL	
A101	SLAB WORK PLAN
A110	ARCHITECTURAL FLOOR PLAN
A120	FINISH PLAN
A130	FF&E PLAN
A131	EQUIPMENT SCHEDULE
A132	EQUIP. & FURNITURE SCHEDULE
A140	ARCHITECTURAL ROOF PLAN
A201	REFLECTED CEILING PLAN
A202	REFLECTED CEILING PLAN- DIMENSIONED
A203	REFLECTED CEILING & UNISTRUT PLAN
A210	CEILING DETAILS
A211	LIGHTING DETAILS
A220	TYP. MTL. STUD FRAMING DETAILS - WOOD STRUCT.
A221	TYP. FRAMING DETAILS AND OPENING SCHEDULES
A301	EXTERIOR ELEVATIONS
A401	BUILDING SECTIONS
A402	BUILDING SECTIONS
A501	ARCHITECTURAL WALL TYPES
A502	INTERIOR SECTIONS
A601	DOOR & HARDWARE SCHEDULE
A701	ELEVATIONS - INTERIOR DINING
A702	ELEVATIONS - INTERIOR KITCHEN
A710	RESTROOM DETAILS
A801	FINISH DETAILS
A802	TILE DETAILS
A900	INTERIOR PERSPECTIVES
A901	EXTERIOR PERSPECTIVES
STRUCTURAL	
S000	GENERAL STRUCTURAL NOTES
S001	TYPICAL DETAILS
S002	TYPICAL CFS DETAILS
S100	FOUNDATION DETAIL
S101	ROOF FRAMING PLAN
HVAC	
M010	HVAC SPECIFICATIONS
M011	TITLE 24 FORMS
M012	TITLE 24 FORMS
M100	HVAC PLAN
M600	HVAC SCHEDULES
M700	HVAC DETAILS
M701	HVAC SEISMIC DESIGN
M800	CAPTIVEAIRE SHOP DRAWINGS
PLUMBING	
P010	PLUMBING SPECIFICATIONS
P011	TITLE 24 FORMS
P012	TITLE 24 FORMS
P100	PLUMBING PLAN WATER & GAS
P110	PLUMBING PLAN WASTE & VENT
P600	PLUMBING SCHEDULES
P700	PLUMBING DETAILS
ELECTRICAL	
E010	ELECTRICAL SPECIFICATIONS
E011	TITLE 24 FORMS
E012	TITLE 24 FORMS
E100	ELECTRICAL LIGHTING PLAN
E110	ELECTRICAL POWER PLAN
E115	ELECTRICAL SITE POWER PLAN
E600	ELECTRICAL SCHEDULES
E700	ELECTRICAL INTERIOR ELEVATIONS
E705	ELECTRICAL INTERIOR ELEVATIONS
E710	ELECTRICAL DETAILS
FOR REFERENCE ONLY	
QS-1	WIC SLAB/WALL/CEILING PLAN
QS-2	WIC WALL TYPE AND DETAILS
QS-3	WIC DETAILS
SD1.0	SITE PLAN
SD2.0	ENLARGED SITE PLAN AND DETAILS

VICINITY MAP

4200 KLOSE WAY, SUITE B
RICHMOND, CA 94806



KEY PLAN



TRUE PLAN 2 G000
KEY SITE PLAN
1" = 80'-0"

PROJECT INFORMATION

PROJECT ADDRESS:	4200 KLOSE WAY, SUITE B RICHMOND, CA 94806
ZONE/DISTRICT:	C-R REGIONAL COMMERCIAL
PARCEL NO.:	405-290-064
LEGAL DESCRIPTION:	PCL MAP 134 PG 23 POR PCL B
ASSOCIATED LANDLORD DRAWINGS:	PERMIT #B23-02695
ASSOCIATED CIVIL DRAWINGS:	PERMIT #BP23-00672
PROJECT DESCRIPTION:	INTERIOR TENANT IMPROVEMENT WITHIN AN EXISTING BUILDING FOR A NEW FAST CASUAL DINING RESTAURANT. SCOPE OF WORK INCLUDES INTERIOR NON-STRUCTURAL PARTITIONS, SUSPENDED CEILINGS, LIGHTING, FINISHES, FURNITURE, CASEWORK, FOOD SERVICE EQUIPMENT WITH RELATED ELECTRICAL, PLUMBING AND MECHANICAL WORK. SITE AND SHELL WORK BY LANDLORD UNDER SEPARATE PERMITS.
TYPE OF CONSTRUCTION:	V-B
BUILDING OCCUPANCY:	A-2, M, S
PROPOSED OCCUPANCY:	A-2
PROJECT AREA:	2715 SF
BUILDING NO. OF STORIES:	1
SEISMIC DESIGN CATEGORY:	E
BUILDING LIFE SAFETY INFO:	SPRINKLERED, NO FIRE ALARM
ADDITIONAL REQUIREMENTS:	1. ALL INTERIOR FINISHES SHALL COMPLY WITH THE REFERENCED CODE REQUIREMENTS FOR FLAMMABILITY AND SMOKE DEVELOPED RATINGS AS WELL AS TOXICITY. **WALL AND CEILINGS (PER ASTM E84 OR UL723)** INTERIOR EXIT STAIRWAYS, RAMPS AND EXIT PASSAGEWAYS A-2 OCCUPANCY CLASS B CORRIDORS AND ENCLOSURE FOR EXIT ACCESS STAIRWAYS AND RAMPS: A-2 OCCUPANCY CLASS B ROOMS AND ENCLOSED SPACES: A-2 OCCUPANCY CLASS C **FLOORING (PER ASTM E648 OR NFPA 253): CLASS II** CRITICAL RADIANT FLUX OF NOT LESS THAN 0.22 WATTS PER SQUARE CENTIMETER **FLAME SPREAD AND SMOKE-DEVELOPED INDEX** CLASS A: FLAME SPREAD: 0 - 25; SMOKE-DEVELOPED: 0 - 450 CLASS B: FLAME SPREAD: 26 - 75; SMOKE-DEVELOPED: 0 - 450 CLASS C: FLAME SPREAD: 76 - 200; SMOKE-DEVELOPED: 0 - 450
DEFERRED SUBMITTALS & DELEGATED DESIGN WORK BY OTHERS UNDER SEPARATE PERMIT:	DELEGATED DESIGN - SPRINKLER MODIFICATIONS

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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STORE NO.: 04-4825
RICHMOND PKWY & I-80
4200 KLOSE WAY, SUITE B
RICHMOND, CA 94806

Issue Record:

	03/04/2024	PERMIT SET

Revisions:

1	04/19/24	PERMIT COMMENTS
2	05/31/24	PERMIT COMMENTS #2
3	06/14/24	PERMIT COMMENTS #3
4	07/24/24	IFC

Project No.
24CMGX.0025.000

Contents:
COVER SHEET

G000

PLANNING AND BUILDING SERVICES DEPARTMENT
Building Services

City of Richmond

STATEMENT OF SPECIAL INSPECTIONS & STRUCTURAL OBSERVATION

Permit Application #: B24-00690
Project Name: Chipotle Mexican Grill - RICHMOND PKWY & I-80
Project Address: 4200 KLOSE WAY, SUITE B, RICHMOND, CA 94806

Purpose: This form shall be used to meet the requirements of the California Building Code (CBC) Chapter 17 for special inspections and tests, and structural observations.

Duties and Responsibilities of the Architect or Engineer of Record: Before a permit will be issued, the architect or engineer of record shall prepare this Statement of Special Inspections and Structural Observation and submit an executed (signed by all parties) copy to the building department for approval.

When Special Inspections & Tests are required by CBC Chapter 17, this document shall name the Recognized Special Inspection and Testing Agency performing required special inspections and tests on the project. Please see http://www.ci.richmond.ca.us/DocumentCenter/View/35692 for a list of recognized agencies.

When Structural Observation is required CBC Chapter 17, this document shall name the registered design professional performing structural observation and describe the stages of construction at which structural observation is to occur.

Duties of the Special Inspection and Testing Agency: The Recognized Special Inspection and Testing Agency shall provide qualified individual special inspectors. In agreeing to perform special inspection and testing services for this project, the responsible managing civil or structural engineer for the Recognized Special Inspection and Testing Agency shall take reasonable steps to ensure that each special inspector used for the project has the necessary training, experience, and resources to properly carry out the duties and responsibilities of a special inspector. The special inspector shall maintain current ICC or other recognized certifications in the areas of inspection. The responsible managing engineer shall verify each special inspector's experience in the areas of inspections to be performed. The City of Richmond will depend on the Recognized Special Inspection and Testing Agency to use only qualified and currently certified special inspectors on the project. Special inspectors shall carry approved identification from the Recognized Special Inspection and Testing Agency when performing the functions of a special inspector.

Code specified duties and responsibilities of the Recognized Special Inspection and Testing Agency are outlined in CBC Chapter 17. Special Inspection reports must include the following information:

- Permit Number
- Project Description
- Project Address
- Description of individual inspections and tests made with applicable locations and results
- Listing of all non-conforming items (follow up report required on how non-conforming items were resolved
- Itemized changes authorized by the architect or engineer and approved by the Building Division.
- Identification of the individual inspector(s) who performed the inspection(s).

Contractors Responsibilities –

1. The contractor is responsible for scheduling required special inspection(s) with the special inspection agency.
2. The contractor is responsible for providing the special inspector access to city approved plans at the job site.
3. The contractor is responsible for having required special inspection(s) completed and documented prior to the scheduled city inspection.
4. The contractor is responsible for retaining at the job site all special inspection records submitted by the special inspector and providing these records upon request for review by the city inspector.
   A special inspection does not waive the requirement for inspection by the city building inspector. Contractor is responsible for scheduling city inspections to be done **after** special inspection approval (with approval report in hand) and **before** covering work.

Owner's (or Owner-Builder's) Responsibilities –

1. The owner shall employ (hire) the architect or engineer of record to carry out the duties and responsibilities in this inspection and observation program.
2. The owner shall employ (hire) the Recognized Special Inspection Agency.
3. When plans indicate that the architect or engineer will perform an inspection, the owner shall employ the engineer or architect responsible for the structural design or their designated engineer or architect to make project site visits to observe and ensure compliance with the city approved plans. The engineer or architect shall submit a statement in writing to the building official stating that the project site visits have been made and that any deficiencies noted have been corrected. This shall not be construed to be a special inspection.

Building Division Responsibilities –

1. The Building Division shall review and approve all special inspection requirements.
2. Work requiring special inspection and the performance of special inspectors may be monitored by the city building inspector. In addition to special inspectors approval the city building inspectors approval must be obtained prior to placement of concrete or other similar activities.
3. The building division will final the project permit(s) when all other city requirements have been met and after all special inspection reports and the final special inspection report have been submitted and accepted.

Required Special Inspections – the areas marked below shall have special inspections:

Soils and Foundations
☐ Site Preparation ☐ Fill Placement ☐ in-place density
☐ Pile Foundations: ☐ Driving Piles ☐ Drilling of Piles or Caisons
☐ Pier Foundations

Concrete Construction:
☐ Concrete Sampling & Strength Tests
☐ Concrete Placement
☒ Bolts / Inserts / Post Installed Anchors (* at time of installation or pull tests will be required)
☒ Placement of Reinforcing Steel
☐ Steel Tendons Placement
☐ Stressing and Grouting of Tendons
☐ Pre-cast Concrete
☐ Shotcrete (during placement and test cores)

☐ Masonry Construction

Steel Construction:
☐ Materials
☐ Welding
☐ High-strength bolts
☐ Steel Frame details
☐ Spray applied fire resistant materials

☐ Per ICC Report # _____
☐ Other _____

Structural Observation by Engineer or Architect of Record –
_____
_____
_____
_____
_____

Acknowledgements – I have read, and I agree to comply with, the terms and conditions of this program:

Legal Property Owner or an authorized agent (not the contractor):
Heather Maloney
(Print name of owner, partner, or corporate officer)
Chipotle Mexican Grill
(Partnership or corporation name)
Heather Maloney
(Signature of owner, partner, or corporate officer)
04.25.24
(Date)

Engineer of Record:
DAVID SCHLATTER
(Print name clearly)
C94619
(California License Number)
(Engineer's Signature)
06/20/2024
(Date)

Architect of Record:
Jason L. Coats
(Print name clearly)
C 39837
(California License Number)
(Architect's Signature)
6/24/2024
(Date)

Special Inspection & Testing Agency:
Krazan & Associates, Inc.
(Company Name. Please print clearly)
David Jarosz
(Supervising Engineer for Company)
60185
(California Registration Number)
(Supervising Engineer's Signature)
06/24/2024
(Date)

Approved by Building Regulation Division:

Consultant:
INTERIOR ARCHITECTS
SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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INTERNET: WWW.CHIPOTLE.COM

STORE NO.: 04-4825
RICHMOND PKWY & I-80
4200 KLOSE WAY, SUITE B
RICHMOND, CA 94806

Issue Record:

Revisions:
3 06/14/24 PERMIT COMMENTS #3
4 07/24/24 IFC

Project No.
24CMGX.0025.000

Contents:
SPECIAL INSPECTION FORM

G000a

3

ACKNOWLEDGMENT FORM – FRONT

RECYCLING IS REQUIRED FOR THIS PROJECT
California Green Building Code (CALGreen)

Project Name: Chipotle Mexican Grill	
Project Location: 4200 Klose Way, Suite B, Richmond, CA 94806	
Building Permit #: B24-00690	**Project Sq. Ft:** 2715
Owner Name: Site Centers	**Contractor Name:** Tri-Quest Builders & Developers, Inc
Owner Telephone: 602-358-2260	**Contractor Telephone:** 916-359-1733

RECYCLE YOUR C&D WASTE WITH DESIGNATED FACILITIES

PROJECTS THAT ARE REQUIRED TO RECYCLE INCLUDE:

ALL NEW RESIDENTIAL AND COMMERCIAL CONSTRUCTION

RESIDENTIAL RENOVATIONS that will result in increased conditioned building area, volume and/or overall size.

COMMERCIAL RENOVATIONS that will result in 1,000 square feet of new building and/or projects with a permit valuation of $200,000 or more.

EASY METHOD: SEND YOUR WASTE TO DESIGNATED FACILITIES

- Sign and submit this Acknowledgement Form.
- Self-haul or use a franchised debris box hauler to direct all construction and demolition (C&D) materials to a Designated Facility to achieve compliance with State diversion requirements.
- Save receipts of recycling and submit to Building Department prior to final inspection.
- See attached Verification Form for details.

I certify under penalty of perjury that I will recycle C&D materials from my project via (select one):

☒ **THE EASY METHOD:** As described above. Direct C&D materials to a Designated Facility (see Verification Form) and submit receipts / documentation of recycling prior to final inspection; or

☐ **THE ADVANCED METHOD:** If you don't use Designated Facilities, ensure and prove recycling of C&D materials via other means. Requires submittal of detailed information on the back of this form, careful tracking of all materials generated by your project, and submittal of documentation of recycling prior to final inspection.

Megan O'Malley — PRINT NAME | Megan O'Malley — SIGNATURE | 6/13/2024 — DATE

ACKNOWLEDGMENT FORM – BACK

ADVANCED METHOD

ADVANCED METHOD – Only For Projects Not Using Designated Facilities

ATTENTION: Only use this form if you DID NOT select the EASY METHOD and are not using Designated Facilities.

1. Construction waste generated on this project for transport to a recycling facility will be: (check appropriate box)
   □ Sorted on-site □ Deconstructed and/or reused □ Maximum disposal estimate per CALGreen (refer to code)
2. The method of waste tracking to be used on this project will be: (check one box)
   □ Weight □ Volume
3. Please identify construction and demolition waste materials that will be generated during the course of this project, and how they will be diverted (reduce waste, recycling, reuse on the project, or salvage for future use or sale) or disposed. Use additional pages as needed. Please note that your project must meet CALGreen's requirement of minimum 50% diversion, or, if applicable, meet more stringent local regulations.

Material	Diversion Method OR Landfill Disposed

4. The facility (or facilities) where the construction waste material will be taken is: (attach separate sheets for additional facilities)
   Name of Facility: _____
   Address: _____
   Telephone: _____
5. I hereby certify that this project will adhere to the following:
   a. Every effort will be made to use reuse and or recycling measures to reduce the amount of construction waste and other materials sent to landfill. Whenever possible, site-sorted debris boxes shall be used to segregate construction waste materials to maximize materials diversion.
   b. All personnel that will be performing any work on the project site will receive and read a copy of the Construction Waste Management Plan (CWMP). The CWMP will meet all CALGreen requirements. Additionally, all personnel shall be instructed on the location and proper use of debris boxes for disposal of C&D materials.
   c. The process of waste management, recycling and reuse of construction waste materials will be monitored regularly to ensure compliance with the CWMP during the course of the project.
   d. A record will be kept of the total amount of construction waste leaving the project site by weight or by volume, and how these materials will be disposed. This includes copies of tickets or detailed receipts from all loads of C&D materials removed from the project site.
   e. All supporting documentation which demonstrates compliance with the CWMP and required diversion will be provided to the permitting jurisdiction upon completion of the project.

_____ PRINT NAME | _____ SIGNATURE | _____ DATE

VERIFICATION FORM – MAP & LISTING

EASY METHOD – Use Designated Facilities

Request proof of recycling of C&D materials when delivering loads to facilities. Contact Designated Facilities for rates and materials accepted. All Designated Facilities meet State CALGreen diversion requirements.

Mixed C&D Processing Facilities

★ **West Contra Costa Sanitary Landfill**
Chris Olivas, Operation Manager
1 Parr Blvd.
Richmond, CA 94801
(510) 970-7246
colivas@republicservices.com

2 **Marin Resource Recovery Center**
Nik Minton
565 Jacoby St.
San Rafael, CA 94901
(415) 485-5646
nicholas.minton@marinsanitary.com

3 **Redwood Landfill & Recycling Center**
Ramin Khany, District Manager
8950 Redwood Highway
Novato, CA 94945
(415) 408-9053
rkhany@wm.com

4 **Devlin Road Recycling & Transfer Facility**
Steve Kelley, General Manager
889 Devlin Rd.
American Canyon, CA 94503
(707) 256-3500 x1221
stevek@devlinroadrecycling.com

5 **Asphalt Shingle Recyclers, LLC (source separated asphalt shingles only)**
Joshua Fookes
5900 Coliseum Way
Oakland, CA 94621
(510) 636-1166
joshfookes@gmail.com

6 **Commercial Waste & Recycling, LLC**
Joshua Fookes
725 Independent Rd.
Oakland, CA 94621
(510) 636-0852
joshfookes@gmail.com

7 **Davis Street Transfer Station**
Erika-Alexandra Solis, Supervisor
2615 Davis St.
San Leandro, CA 94577
(510) 563-4223
Esolis3@wm.com

8 **Contra Costa Transfer Station & Recovery Facility**
Ritchie Granzella, Operations Manager
951 Waterbird Way
Martinez CA 94553
(925) 313-8987
rgranzella@republicservices.com

Reuse Facilities

★ **This & That**
Tomas Rascon, Jr.
1701 Rumrill Blvd
San Pablo, CA 94806
(510) 232-1273
info@thisandthatreuse.com

A **Marin Community Benefit Cooperative**
William Callahan
844 B St.
San Rafael, CA 94901
(415) 454-9948
bill@ohlas.org

A **Urban Ore**
Dan Knapp
900 Murray St.
Berkeley, CA 94710
(510) 841-7283
dr.ore@urbanore.us

A **Heritage Salvage**
Karen Helms
1473 Petaluma Blvd. South
Petaluma, CA 94952
(707) 762-6277
office@heritagesalvage.com

A **The Away Station**
Carrie Bachelder
109 Broadway Blvd.
Fairfax, CA 94930
(415) 453-4221
carrie@theawaystation.org

A **Building Resources**
Mathew Levesque
701 Amador St.
San Francisco, CA 94124
(415) 285-7814
buildingresourcessf@gmail.com

VERIFICATION FORM – RECEIPT TRACKING

EASY METHOD – Track Loads of C&D Sent to Designated Facilities

Project Name: Chipotle Richmond Pkwy & I-80	
Project Location: 4200 Klose Way, Ste B, Richmond, CA 94806	
Building Permit #:	**Project Sq. Ft.:** 2715
Owner Name: Heather Maloney	**Contractor Name:** Tri-Quest Builders & Developers, Inc.
Owner Telephone: 415-310-7517	**Contractor Telephone:** 916-359-1733

Use this form to document C&D material recycling – documentation is easy.

- Make sure your hauler informs the Designated Facility to process the load as C&D waste for recycling.
- If self-hauling materials, staple "weight ticket" receipts from Designated Facilities to this form.
- If using a debris box hauler, staple "invoice" receipts from the hauler to this form.

Turn in the attached receipts prior to final inspection.

- Log your receipt numbers in the table below in case of lost receipts – Designated Facilities can also reprint copies upon request.

Date	Receipt #	Facility Name	Notes

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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3	06/14/24	PERMIT COMMENTS #3
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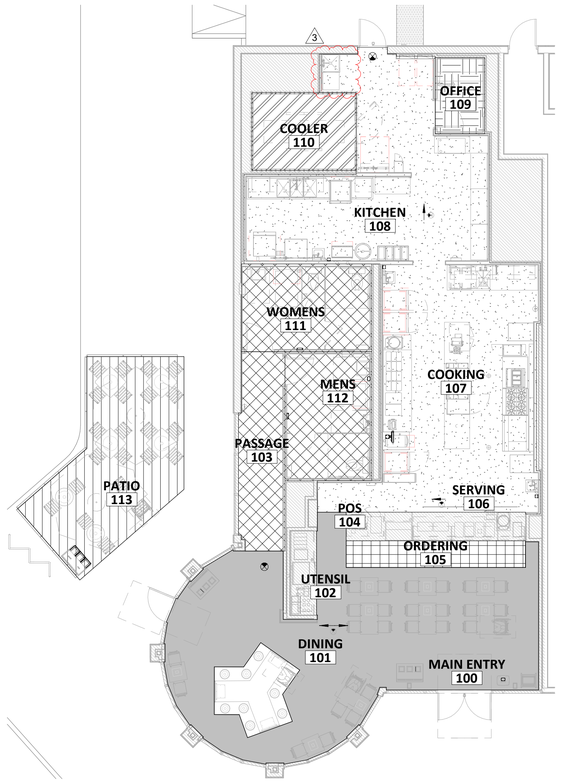
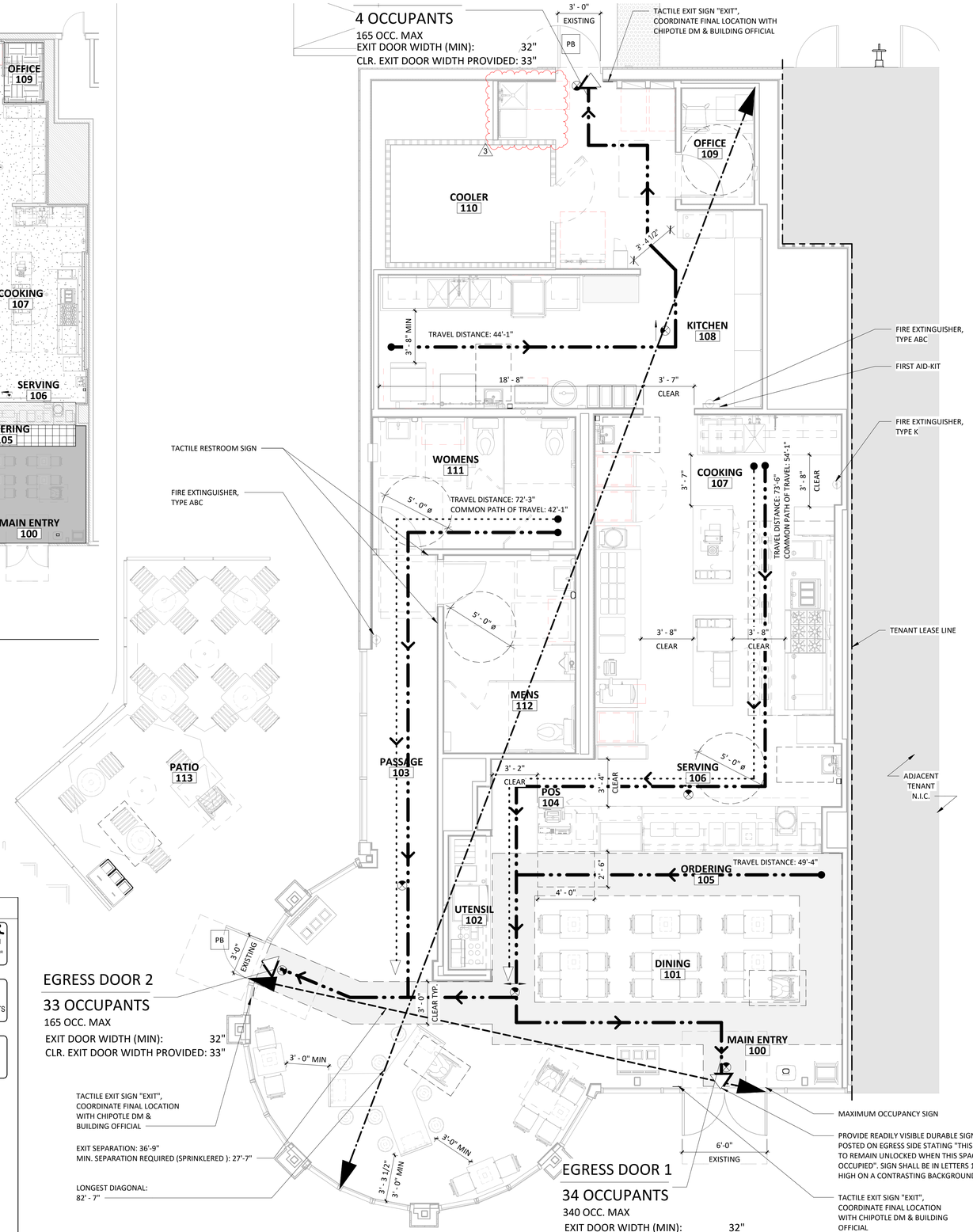
Project No.
24CMGX.0025.000

Contents:
C&D WASTE RECYCLING FORM

G000b



2 / G001 **OCCUPANCY DIAGRAM**
1/8" = 1'-0"



1 / G001 **LIFE SAFETY PLAN**
1/4" = 1'-0"

SIGNAGE

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

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

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

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

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

BUILDING CODE & ZONING DATA

1. OCCUPANCY GROUP: A-2
   OCCUPANCY SEPARATION REQUIRED: 1 HOUR
   OCCUPANCY SEPARATION PROVIDED: 1 HOUR (EXISTING)
2. TYPE OF CONSTRUCTION: V-B (SPRINKLERED)
3. USE GROUP: A-2, S-1
   ALLOWABLE AREA: 36,000 S.F.
   AREA INCREASE W/ SPRINKLERS: N/A
   TENANT LEASE AREA: 2,715 S.F.
4. ALLOWABLE NO. OF STORIES: 4
   ACTUAL NO. OF STORIES: 1
   ALLOWABLE BUILDING HEIGHT: 75'-0" MAXIMUM HEIGHT
   ACTUAL BUILDING HEIGHT: APPROX. 27'-6" (EXISTING)
5. CALCULATED OCCUPANT LOAD

OCCUPANCY FUNCTION	AREA	LOAD FACTOR	OCCUPANT LOAD
INTERIOR			
ASSEMBLY (UNCONCENTRATED)	654 SF	15 NET	44 OCCS
ASSEMBLY (STANDING SPACE)	60 SF	5 NET	12 OCCS
ASSEMBLY W/FIXED SEATS	62 SF	CBC SECTION 1004.6	8 OCCS
BUSINESS	47 SF	150 GROSS	1 OCC
KITCHEN - COMMERCIAL	3 957 SF	200 GROSS	5 OCCS
STORAGE	100 SF	300 GROSS	1 OCC
ACCESSORY	395 SF	-	-
NON OCCUPIABLE	3 440 SF	-	-
		INTERIOR TOTAL:	**71 OCCS**
PATIO			
PATIO (ASSEMBLY - UNCONCENTRATED)	275 SF	15 NET	17 OCCS
		TOTAL:	**90 OCCS**

POSTED OCCUPANT LOAD
99

SEATING:
INTERIOR: 35 SEATS
PATIO: 22 SEATS
TOTAL: 57 SEATS

6. MEANS OF EGRESS REQUIRED: 3 3
   MEANS OF EGRESS PROVIDED: 3
7. FIRE SPRINKLERS: YES
8. PLUMBING FIXTURES REQUIRED (PER 2022 CPC, TABLE 422.1)

	WATER CLOSETS		LAVORATORIES		URINALS	
	REQ'D	PROV'D	REQ'D	PROV'D	REQ'D	PROV'D
MEN'S:	1	1	1	1	1	1
WOMEN'S:	2	2	1	1	-	-

EXITING LEGEND

- EXISTING 1 HR RATED DEMISING
- EXIT ACCESS = LESS THAN 250' AT A-2 OCCUPANCY IN SPRINKLERED BUILDING
- COMMON PATH OF EGRESS = LESS THAN 75' AT A-2 OCCUPANCY IN SPRINKLERED BUILDING
- EXIT SIGNAGE
- EXIT / ACCESS TO EXIT
- FIRE EXTINGUISHER
- PB — PANIC BAR

CODE AUTHORITIES

BUILDING CODE	2022 CALIFORNIA BUILDING CODE
EXISTING BUILDING CODE	2022 CALIFORNIA ECXISTING BUILDING CODE
MECHANICAL CODE	2022 CALIFORNIA MECHANICAL CODE
PLUMBING CODE	2022 CALIFORNIA PLUMBING CODE
ENERGY CODE	2022 CALIFORNIA ENERGY CODE
SUSTAINABILITY	2022 CALIFORNIA GREEN BUILDING CODE STANDARDS
ELECTRICAL CODE	2022 CALIFORNIA ELECTRICAL CODE
FIRE CODE	2022 CALIFORNIA FIRE CODE
ACCESSIBILITY	CHAPTER 11B OF THE CALIFORNIA BUILDING CODE
FOOD/RESTAURANT CODE	2022 CALIFORNIA RETAIL FOOD CODE

EGRESS SEPARATION NOTE

- OVERALL DISTANCE: **82' - 7"**
- REQUIRED SEPARATION: 27' - 7"

PER 2022 CALIFORNIA BUILDING CODE, SECTION 1007.1.1, EXCEPTION 2.

- PROVIDED SEPARATION: **36' - 9"**

OCCUPANCY LEGEND

- BUSINESS 1:150 GROSS
- ASSEMBLY (A-2, UNCONCENTRATED - TABLES AND CHAIRS) 1:15 NET
- ASSEMBLY (STANDING SPACE) 1:5 NET
- FIXED SEATING, PER 2022 CBC, SECTION 1004.6
- NON-OCCUPIABLE
- KITCHEN, COMMERCIAL 1:200 GROSS
- PATIO 1:15 NET
- STORAGE 1:300 GROSS
- ACCESSORY a

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

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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03/04/2024	PERMIT SET

Revisions:

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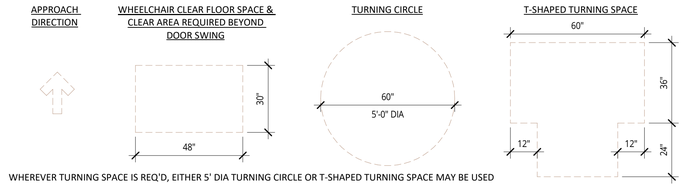
4	07/24/24	IFC

Project No.
24CMGX.0025.000

Contents:
PROJECT DATA & LIFE SAFETY PLAN

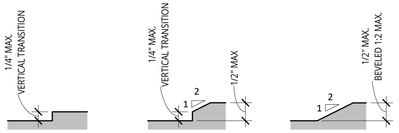
G001



WHEREVER TURNING SPACE IS REQ'D, EITHER 5' DIA TURNING CIRCLE OR T-SHAPED TURNING SPACE MAY BE USED

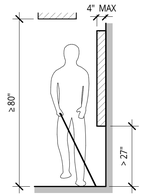
1 2022 CBC CHAPTER 11B CLEARANCES - TYPICAL SYMBOLS

3/8" = 1'-0"



3 2022 CBC CHAPTER 11B CLEARANCES - FLOOR LEVEL TRANSITIONS

3/8" = 1'-0"



LIMITS OF PROTRUDING OBJECTS

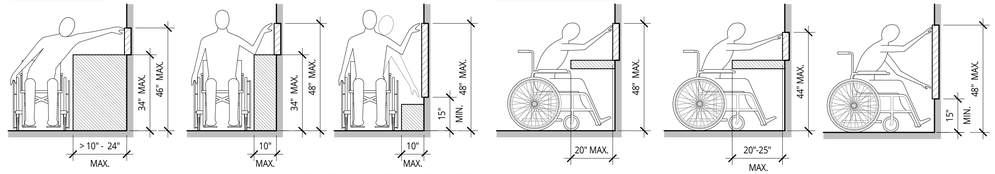
OBJECTS IN ANY PATH OF CIRCULATION ARE REQUIRED TO COMPLY WITH LIMITS SHOWN HERE. OBJECTS THAT CANNOT COMPLY, SUCH AS STANDPIPES IN STAIRS AND CONTROL BOXES IN PARKING GARAGE, SHALL HAVE ADDED CANE DETECTION.

2 2022 CBC CHAPTER 11B CLEARANCES - PROTRUDING OBJECTS

3/8" = 1'-0"

SIDE REACH DIAGRAMS

FORWARD REACH DIAGRAMS



NOTE: SEE TYPE B UNIT SHEET FOR EXCEPTIONS TO SIDE REACH WITHIN TYPE B RESIDENTIAL UNITS

4 2022 CBC CHAPTER 11B CLEARANCES - REACH DIAGRAMS

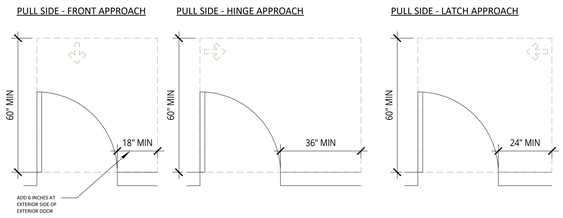
3/8" = 1'-0"

MANEUVERING CLEARANCE AT MANUAL SWINGING DOORS

PULL SIDE - FRONT APPROACH

PULL SIDE - HINGE APPROACH

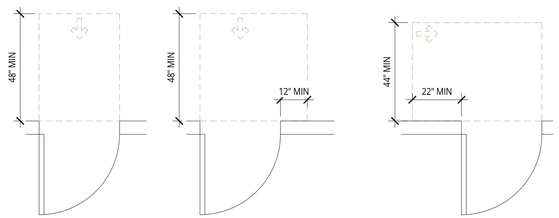
PULL SIDE - LATCH APPROACH



PUSH SIDE - FRONT APPROACH

PUSH SIDE - FRONT APPROACH WITH LATCH & CLOSER

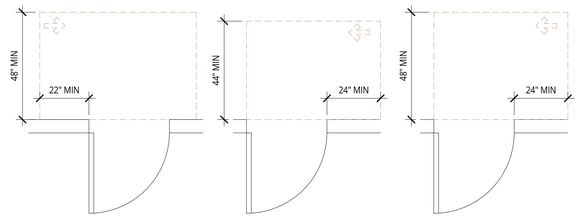
PUSH SIDE - HINGE APPROACH WITHOUT LATCH & CLOSER



PUSH SIDE - HINGE APPROACH WITH LATCH & CLOSER

PUSH SIDE - LATCH APPROACH

PUSH SIDE - LATCH APPROACH WITH LATCH & CLOSER



NOTE: DOOR MANEUVERING CLEARANCES MEASURED FROM FACE OF WALL BASE TRIM TO NEAREST OBSTRUCTION

5 2022 CBC CHAPTER 11B CLEARANCES - DOOR MANEUVERING CLEARANCES

3/8" = 1'-0"

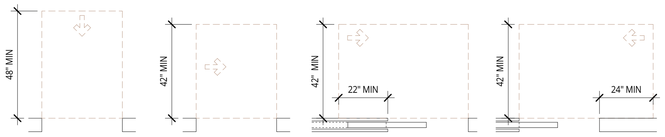
MANEUVERING CLEARANCE AT SLIDING DOORS, FOLDING DOORS, AND OPENINGS

FRONT APPROACH

SIDE APPROACH

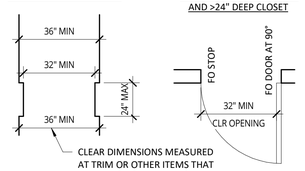
POCKET OR HINGE APPROACH

STOP OR LATCH APPROACH



ACCESSIBLE ROUTE WIDTH

DOORS FOR USER PASSAGE AND >24" DEEP CLOSET



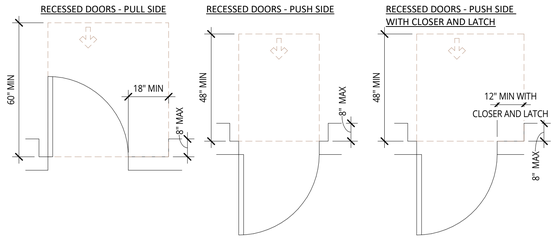
CLEAR DIMENSIONS MEASURED AT TRIM OR OTHER ITEMS THAT RESTRICT CLEARANCE

MANEUVERING CLEARANCE AT RECESSED DOORS

RECESSED DOORS - PULL SIDE

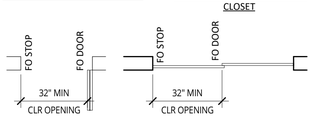
RECESSED DOORS - PUSH SIDE

RECESSED DOORS - PUSH SIDE WITH CLOSER AND LATCH



BIFOLD DOORS INTENDED FOR USER PASSAGE AND >24" DEEP CLOSET

SLIDING DOORS INTENDED FOR USER PASSAGE AND >24" DEEP CLOSET



GENERAL NOTES - ACCESSIBILITY SHEETS

A. THESE PICTOGRAPHS DO NOT DESCRIBE ALL CONDITIONS WHICH MAY BE ENCOUNTERED IN THE FIELD. VERIFY QUESTIONS WITH ARCHITECT
B. INFORMATION IN THESE DRAWINGS IS COMPLEMENTARY TO THE PLANS, SECTIONS, ELEVATIONS AND DETAILS, AND SHALL BE USED IN CONJUNCTION WITH THEM
C. PROVIDE WORK SHOWN OR REFERRED TO HEREIN AS THOUGH SHOWN ON ALL OTHER ARCHITECTURAL DRAWINGS
D. INFORMATION REGARDING THE LOCATION OF MECHANICAL, ELECTRICAL AND PLUMBING ITEMS IS PROVIDED AS DESIGN CRITERIA FOR THE CONVENEINCE OF THOSE DESIGNERS OF RECORD WHO SHALL BEAR RESPONSIBLITY FOR COMPLIANCE WITH THE APPLICABLE CODE STANDARDS ILLUSTRATED AND CITED HEREIN
E. PROVIDE GRAB BARS, AS ILLUSTRATED HEREIN, WITHIN PUBLIC SPACES.
F. COMPLY WITH MOUNTING HEIGHTS INDICATED HEREIN FOR WALL-MOUNTED ITEMS. MOUNTING HEIGHTS APPLY TO ALL ITEMS IN ACCESSIBLE AND TYPE A UNITS SAME AS PUBLIC/COMMON AREAS.
G. COMPLY WITH GENERAL BUILDING CLEARANCE REQUIREMENTS AS INDICATED HEREIN.
H. ENCROACHMENT INTO FLOOR CLEARANCE AREAS AT DOORS, CASEWORK, APPLIANCES OR EQUIPMENT IS NOT ALLOWED UNLESS OTHERWISE NOTED.
I. NOTIFY THE ARCHITECT IMMEDIATELY IF CONFLICTS ARE DISCOVERED BETWEEN THE REQUIRMENTS ILLUSTRATED HEREIN AND THOSE ON OTHER DRAWINGS.
J. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS BELOW AND AT THE ENDS OF THE GRAB BAR SHALL BE 1 1/2" MIN. THE SPACE BETWEEN THE GRAB BAR AND PROJECTING OBJECTS ABOVE THE GRAB BAR SHALL BE 12" MIN.
K. OPERABLE PARTS SHALL BE OPERATED WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE OPERABLE PARTS SHALL BE 5.0 POUNDS (22.2 N) MAXIMUM.
L. FOR COMPLIANCE WITH EXTERIOR ACCESSIBLE PATH OF TRAVEL REQUIREMENTS PLEASE REFER TO CIVIL DRAWINGS.

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
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Revisions:

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Project No.

24CMGX.0025.000

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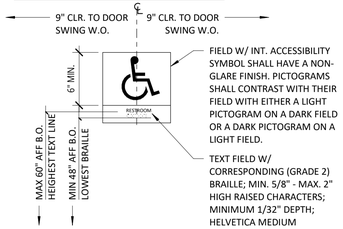
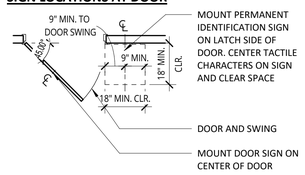
ACCESSIBILITY REQUIREMENTS

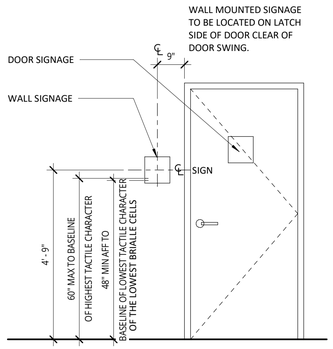
G002

PERMANENT IDENTIFICATION SIGN

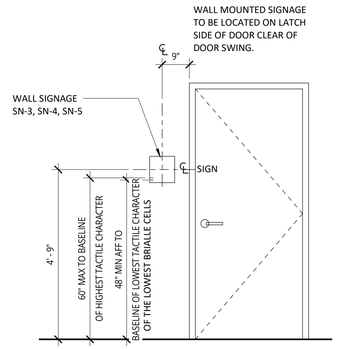


SIGN LOCATIONS AT DOOR

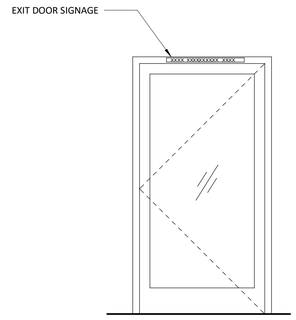




RESTROOM SIGNAGE FOR LOCATIONS OF SIGNS



EXIT SIGNAGE



ENTRY DOOR SIGNAGE (INTERIOR SIDE OF DOORS)

SIGN DETAIL 'SN-3'	SIGN DETAIL 'SN-4'	SIGN DETAIL 'SN-5'

TACTILE EXIT SIGNAGE

1. A TACTILE EXIT SIGN WITH WORDS "EXIT", SHALL IDENTIFY EACH GRADE LEVEL EXTERIOR EXIT DOOR.

2. A TACTILE EXIT SIGN WITH THE WORDS "EXIT ROUTE" SHALL IDENTIFY EACH EXIT ACCESS DOOR FROM AN INTERIOR ROOM OR AREA TO A CORRIDOR OR HALLWAY THAT IS REQUIRED TO HAVE A VISUAL EXIT SIGN.

THIS DOOR TO REMAIN UNLOCKED WHEN BUILDING IS OCCUPIED

SIGN REQUIREMENTS:

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

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

INSTALL SO NOT VISIBLE FROM STORE EXTERIOR.

EXIT DOOR SIGNAGE (INTERIOR SIDE OF DOORS)

1 ACCESSIBLE RESTROOM SIGNAGE
3/8" = 1'-0"

2 ACCESSIBILITY SIGNAGE
1/2" = 1'-0"

Consultant:

INTERIOR ARCHITECTS

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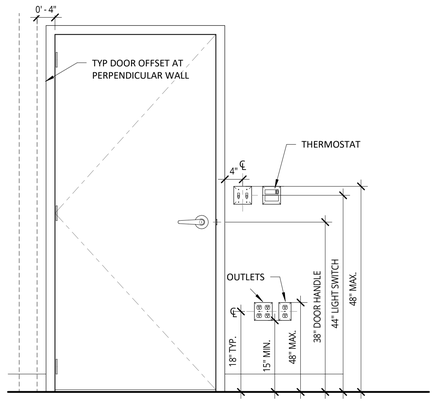
24CMGX.0025.000

Contents:
ACCESSIBILITY REQUIREMENTS

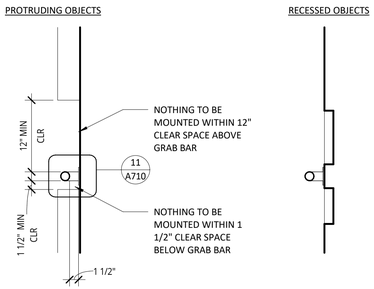
G003



1 STANDARD MOUNTING HEIGHTS

3/4" = 1'-0"

GRAB BARS SHALL EITHER BE CIRCULAR WITH A CROSS SECTION WITH AN OUTSIDE DIAMETER BETWEEN 1 1/4" MIN AND 2" MAXIMUM OR BE NON-CIRCULAR WITH A CROSS SECTION DIMENSION OF 2" MAXIMUM AND A PERIMETER DIMENSION OF 4" MINIMUM AND 4.8" MAXIMUM.



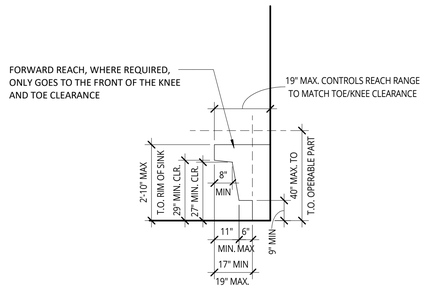
ALL GRAB BARS INSTALLED IN ANY APPLICATION EXCEPT SPACE BETWEEN GRAB BARS AND SHOWER CONTROLS, SHOWER FITTINGS AND OTHER GRAB BARS SHALL BE 1 1/2" MINIMUM.

PER 2022 CBC CHAPTER 11B

FULLY RECESSED DISPENSERS CAN BE LOCATED WITHIN THE 12" ABOVE AND 1 1/2" BELOW THE GRAB BAR.

2 GRAB BAR SPACING

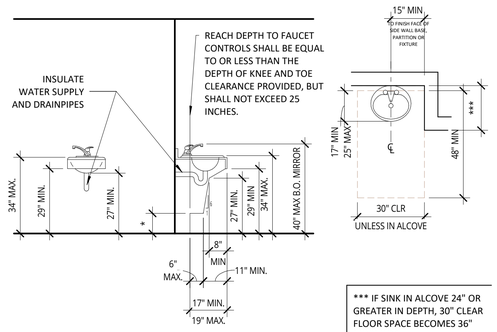
1" = 1'-0"



3 KNEE AND TOE CLEARANCE DIAGRAM

3/8" = 1'-0"

ACCESSIBLE WALL-HUNG LAVATORY

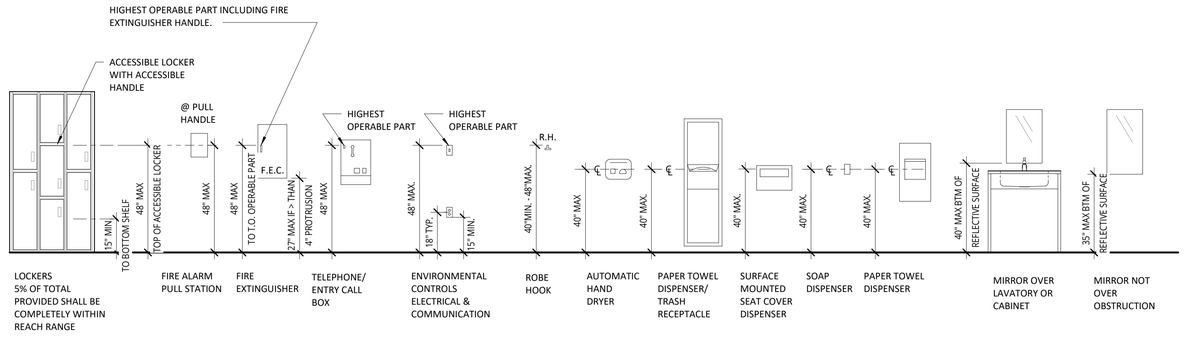


*** IF SINK IN ALCOVE 24" OR GREATER IN DEPTH, 30" CLEAR FLOOR SPACE BECOMES 36" MINIMUM

PER 2022 CBC CHAPTER 11B

4 COMMON WALL HUNG LAVATORY

3/8" = 1'-0"



6 MOUNTING HEIGHTS

3/8" = 1'-0"

Consultant:

INTERIOR ARCHITECTS

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ACCESSIBILITY REQUIREMENTS

G004

AIA California 2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 1 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

CHAPTER 3
GREEN BUILDING
SECTION 301 GENERAL

301.1 SCOPE. Buildings shall be designed to include the green building measures specified as mandatory in the application checklists contained in this code. Voluntary green building measures are also included in the application checklists and may be included in the design and construction of structures covered by this code, but are not required unless adopted by a city, county, or city and county as specified in Section 101.7.

301.3 NONRESIDENTIAL ADDITIONS AND ALTERATIONS. [BSC-CG] The provisions of individual sections of Chapter 5 apply to newly constructed buildings, building additions of 1,000 square feet or greater, and/or building alterations with a permit valuation of $200,000 or above (for occupancies within the authority of California Building Standards Commission). Code sections relevant to additions and alterations shall only apply to the portions of the building being added or altered within the scope of the permitted work.

A code section will be designated by a banner to indicate where the code section only applies to newly constructed buildings [N] or to additions and/or alterations [A]. When the code section applies to both, no banner will be used.

301.3.1 Nonresidential additions and alterations that cause updates to plumbing fixtures only:

Note: On and after January 1, 2014, certain commercial real property, as defined in Civil Code Section 1101.3, shall have its noncompliant plumbing fixtures replaced with appropriate water-conserving plumbing fixtures under specific circumstances. See Civil Code Section 1101.1 *et seq.* for definitions, types of commercial real property affected, effective dates, circumstances necessitating replacement of noncompliant plumbing fixtures, and duties and responsibilities for ensuring compliance.

301.3.2 Waste Diversion. The requirements of Section 5.408 shall be required for additions and alterations whenever a permit is required for work.

301.4 PUBLIC SCHOOLS AND COMMUNITY COLLEGES. (see GBSC)
301.5 HEALTH FACILITIES. (see GBSC)

SECTION 302 MIXED OCCUPANCY BUILDINGS

302.1 MIXED OCCUPANCY BUILDINGS. In mixed occupancy buildings, each portion of a building shall comply with the specific green building measures applicable to each specific occupancy.

SECTION 303 PHASED PROJECTS

303.1 PHASED PROJECTS. For shell buildings and others constructed for future tenant improvements, only those code measures relevant to the building components and systems considered to be new construction (or newly constructed) shall apply.

303.1.1 Initial Tenant improvements. The provisions of this code shall apply only to the initial tenant improvements to a project. Subsequent tenant improvements shall comply with the scoping provisions in Section 301.3 non-residential additions and alterations.

ABBREVIATION DEFINITIONS:

HCD	Department of Housing and Community Development
BSC	California Building Standards Commission
DSA-SS	Division of the State Architect, Structural Safety
OSHPD	Office of Statewide Health Planning and Development
LR	Low Rise
HR	High Rise
AA	Additions and Alterations
N	New

CHAPTER 5
NONRESIDENTIAL MANDATORY MEASURES
DIVISION 5.1 PLANNING AND DESIGN
SECTION 5.101 GENERAL

5.101.1 SCOPE
The provisions of this chapter outline planning, design and development methods that include environmentally responsible site selection, building design, building siting and development to protect, restore and enhance the environmental quality of the site and respect the integrity of adjacent properties.

SECTION 5.102 DEFINITIONS

5.102.1 DEFINITIONS
The following terms are defined in Chapter 2 *(and are included here for reference)*

CUTOFF LUMINAIRES. Luminaires whose light distribution is such that the candela per 1000 lamp lumens does not numerically exceed 25 (2.5 percent) at an angle of 90 degrees above nadir, and 100 (10 percent) at a vertical angle of 80 degrees above nadir. This applies to all lateral angles around the luminaire.

LOW-EMITTING AND FUEL EFFICIENT VEHICLES.
Eligible vehicles are limited to the following:

1. Zero emission vehicle (ZEV), enhanced advanced technology PZEV (enhanced AT ZEV) or transitional zero emission vehicles (TZEV) regulated under CCR, Title 13, Section 1962.
2. High-efficiency vehicles, regulated by U.S. EPA, bearing a fuel economy and greenhouse gas rating od 9 oe 10 as regulated under 40 CFR Section 600 Subpart D.

NEIGHBORHOOD ELECTRIC VEHICLE (NEV). A motor vehicle that meets the definition of "low-speed vehicle" either in Section 385.5 of the Vehicle Code or in 49CFR571.500 (as it existed on July 1, 2000), and is certified to zero-emission vehicle standards.

TENANT-OCCUPANTS. Building occupants who inhabit a building during its normal hours of operation as permanent occupants, such as employees, as distinguished from customers and other transient visitors.

VANPOOL VEHICLE. Eligible vehicles are limited to any motor vehicle, other than a motortruck or truck tractor, designed for carrying more than 10 but not more than 15 persons including the driver, which is maintained and used primarily for the nonprofit work-related transportation of adults for the purpose of ridesharing.

Note: Source: Vehicle Code, Division 1, Section 668

ZEV. Any vehicle certified to zero-emission standards.

SECTION 5.106 SITE DEVELOPMENT

5.106.1 STORM WATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB LESS THAN ONE ACRE OF LAND. Newly constructed projects and additions which disturb less than one acre of land, and are not part of a larger common plan of development or sale, shall prevent the pollution of storm water runoff from the construction activities through one or more of the following measures:

5.106.1.1 Local ordinance. Comply with a lawfully enacted storm water management and/or erosion control ordinance.

5.106.1.2 Best Management Practices (BMPs). Prevent the loss of soil through wind or water erosion by implementing an effective combination of erosion and sediment control and good housekeeping BMPs.

1. Soil loss BMPs that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Scheduling construction activity during dry weather, when possible.
   b. Preservation of natural features, vegetation, soil, and buffers around surface waters.
   c. Drainage swales or lined ditches to control stormwater flow.
   d. Mulching or hydroseeding to stabilize disturbed soils.
   e. Erosion control to protect slopes.
   f. Protection of storm drain inlets (gravel bags or catch basin inserts).
   g. Perimeter sediment control (perimeter silt fence, fiber rolls).
   h. Sediment trap or sediment basin to retain sediment on site.
   i. Stabilized construction exits.
   j. Wind erosion control.
   k. Other soil loss BMPs acceptable to the enforcing agency.
2. Good housekeeping BMPs to manage construction equipment, materials, non-stormwater discharges and wastes that should be considered for implementation as appropriate for each project include, but are not limited to, the following:
   a. Dewatering activities.
   b. Material handling and waste management.
   c. Building materials stockpile management.
   d. Management of washout areas (concrete, paints, stucco, etc.).
   e. Control of vehicle/equipment fueling to contractor's staging area.
   f. Vehicle and equipment cleaning performed off site.
   g. Spill prevention and control.
   h. Other housekeeping BMPs acceptable to the enforcing agency.

EXISTING TO REMAIN

5.106.2 STORMWATER POLLUTION PREVENTION FOR PROJECTS THAT DISTURB ONE OR MORE ACRES OF LAND. Comply with all lawfully enacted stormwater discharge regulations for projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of a larger common plan of development sale.

Note: Projects that (1) disturb one acre or more of land, or (2) disturb less than one acre of land but are part of the larger common plan of development or sale must comply with the post-construction requirements detailed in the applicable National Pollutant Discharge Elimination System (NPDES) General permit for Stormwater Discharges Associated with Construction and Land Disturbance Activities issued by the State Water Resources Control Board or the Lahontan Regional Water Quality Control Board (for projects in the Lake Tahoe Hydrologic Unit).

The NPDES permits require postconstruction runoff (post-project hydrology) to match the preconstruction runoff (pre-project hydrology) with the installation of postconstruction stormwater management measures. The NPDES permits emphasize runoff reduction through on-site stormwater use, interception, evapotranspiration, and infiltration through nonstructural controls, such as Low Impact Development (LID) practices, and conversation design measures. Stormwater volume that cannot be addressed using nonstructural practices is required to be captured in structural practices and be approved by the enforcing agency.

Refer to the current applicable permits on the State Water Resources Control Board website at: www.waterboards.ca.gov/constructionstormwater. Consideration to the stormwater runoff management measures should be given during the initial design process for appropriate integration into site development.

5.106.4 BICYCLE PARKING. For buildings within the authority of California Building Standards Commission as specified in Section 103, comply with Section 5.106.4.1. For buildings within the authority of the Division of the State Architect pursuant to Section 105, comply with Section 5.106.4.2

5.106.4.1 Bicycle parking. [BSC-CG] Comply with Sections 5.106.4.1.1 and 5.106.4.1.2; or meet the applicable local ordinance, whichever is stricter.

5.106.4.1.1 Short-term bicycle parking. If the new project or an addition or alteration is anticipated to generate visitor traffic, provide permanently anchored bicycle racks within 200 feet of the visitors' entrance, readily visible to passers-by, for 5% of new visitor motorized vehicle parking spaces being added, with a minimum of one two-bike capacity rack.
Exception: Additions or alterations which add nine or less visitor vehicular parking spaces.

5.106.4.1.2 Long-term bicycle parking. For new buildings with tenant spaces that have 10 or more tenant-occupants, provide secure bicycle parking for 5 percent of the tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.3 For additions or alterations that add 10 or more tenant-occupant vehicular parking spaces, provide secure bicycle parking for 5 percent of the tenant vehicular parking spaces being added, with a minimum of one bicycle parking facility.

5.106.4.1.4 For new shell buildings in phased projects provide secure bicycle parking for 5 percent of the anticipated tenant-occupant vehicular parking spaces with a minimum of one bicycle parking facility.

5.106.4.1.5 Acceptable bicycle parking facility for Sections 5.106.4.1.2, 5.106.4.1.3, and 5.106.4.1.4 shall be convenient from the street and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

Note: Additional information on recommended bicycle accommodations may be obtained from Sacramento Area Bicycle Advocates.

5.106.4.2 Bicycle parking. [DSA-SS] For public schools and community colleges, comply with Sections 5.106.4.2.1 and 5.106.4.2.2

5.106.4.2.1 Student bicycle parking. Provide permanently anchored bicycle racks conveniently accessed with a minimum of four two-bike capacity racks per new building.
5.106.4.2.2 Staff bicycle parking. Provide permanent, secure bicycle parking conveniently accessed with a minimum of two staff bicycle parking spaces per new building. Acceptable bicycle parking facilities shall be convenient from the street or staff parking area and shall meet one of the following:

1. Covered, lockable enclosures with permanently anchored racks for bicycles;
2. Lockable bicycle rooms with permanently anchored racks; or
3. Lockable, permanently anchored bicycle lockers.

5.106.5.3 Electric vehicle (EV) charging. [N] Construction to provide electric vehicle infrastructure and facilitate electric vehicle charging shall comply with Section 5.106.5.3.1 and shall be provided in accordance with regulations in the California Building Code and the California Electrical Code.

Exceptions:

1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcement agency substantiating the local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.
2. Parking spaces accessible only by automated mechanical car parking systems are not required to comply with this code section

5.106.5.3.1 EV capable spaces.
[N] EV capable spaces shall be provided in accordance with Table 5.106.5.3.1 and the following requirements:

1. Raceways complying with the California Electrical Code and no less that 1-inch (25 mm) diameter shall be provided and shall originate at a service panel or a subpanel(s) serving the area, and shall terminate in close proximity to the proposed location of the EV capable and into a suitable listed cabinet, box,enclosure or equivalent. A common raceway may be used to serve multiple EV charging spaces.
2. A service panel or subpanel (s) shall be provided with panel space and electrical load capacity for a dedicated 208/240 volt, 40-ampere minimum branch circuit for each EV capable space, with delivery of 30-ampere minimum to an installed EVSE at each EVCS.
3. The electrical system and any on-site distribution transformers shall have sufficient capacity to supply full rated amperage at each EV capable space.
4. The service panel or subpanel circuit directory shall identify the reserved overcurrent protective devices space(s) as "EV CAPABLE". The raceway termination location shall be permanently and visibly marked as "EV CAPABLE."

Note: A parking space served by electric vehicle supply equipment or designed as a future EV charging space shall count as at least one standard automobile parking space only for the purpose of complying with any applicable minimum parking space requirements established by an enforcement agency. See vehicle Code Section 22511.2 for further details.

TABLE 5.106.5.3.1

TOTAL NUMBER OF ACTUAL PARKING SPACES	NUMBER OF REQUIRED EV CAPABLE SPACES	NUMBER OF EVCS (EV CAPABLE SPACES PROVIDED WITH EVSE)^2
0-9	0	0
10-25	2	0
26-50	8	2
51-75	13	3
76-100	17	4
101-150	25	6
151-200	35	9
201 AND OVER	20% of total[1]	25% of EV capable spaces[1]

1. Where there is insufficient electrical supply.
2. The number of required EVCS (EV capable spaces provided with EVSE) in column 3 count towards the total number of required EV capable spaces shown in column 2.

5.106.5.3.2 Electric vehicle charging stations (EVCS)
EV capable spaces shall be provided with EVSE to create EVCS in the number indicated in Table 5.106.5.3.1. The EVCS required by Table 5.106.5.3.1 may be provided with EVSE in any combination of Level 2 and Direct Current Fast Charging (DCFC), except that at least one Level 2 EVSE shall be provided.

One EV charger with multiple connectors capable of charging multiple EVs simultaneously shall be permitted if the electrical load capacity required by Section 5.106.5.3.1 for each EV capable space is accumulatively supplied to the EV charger.

The installation of each DCFC EVSE shall be permitted to reduce the minimum number of required EV capable spaces without EVSE by five and reduce proportionally the required electrical load capacity to the service panel or subpanel.

5.106.5.3.3 Use of automatic load management systems (ALMS).
ALMS shall be permitted for EVCS. When ALMS is installed, the required electrical load capacity specified in Section
5.106.5.3.1 for each EVCS may be reduced when serviced by an EVSE controlled by an ALMS. Each EVSE controlled by an ALMS shall deliver a minimum 30 amperes to an EV when charging one vehicle and shall deliver a minimum 3.3 kW while simultaneously charging multiple EVs.

5.106.5.3.4 Accessible EVCS.
When EVSE is installed, accessible EVSC shall be provided in accordance with the *California Building Code*, Chapter 11B, Section 11B-228.3.
Note: For EVCS signs, refer to Caltrans Traffic Operations Policy Directive 13-01 (Zero Emission Vehicle Signs and Pavement Markings) or its successor(s).

5.106.5.4 Electric Vehicle (EV) charging: medium-duty and heavy-duty. [N]
Construction shall comply with section 5.106.5.4.1 to facilitate future installation of electric vehicle supply equipment (EVSE). Construction for warehouses, grocery stores and retail stores with planned off-street loading spaces shall also comply with Section 5.106.5.4.1 for future installation of medium- and heavy-duty EVSE.
Exceptions:

1. On a case-by-case basis where the local enforcing agency has determined compliance with this section is not feasible based upon one of the following conditions:
   a. Where there is no local utility power supply.
   b. Where the local utility is unable to supply adequate power.
   c. Where there is evidence suitable to the local enforcing agency substantiating that additional local utility infrastructure design requirements, directly related to the implementation of Section 5.106.5.3, may adversely impact the construction cost of the project.

When EVSE(s) is/are installed, it shall be in accordance with the *California Building Code*, the *California Electrical Code* and as follows:

5.106.5.4.1 Electric vehicle charging readiness requirements for warehouse, grocery stores and retail stores with planned off-street loading spaces.
[N] In order to avoid future demolition when adding EV charging supply and distribution equipment, spare raceways(s) or busway(s) and adequate capacity for transformers(s), service panels(s) or subpanel(s) shall be installed at the time of construction in accordance with the California Electrical Code. Construction plans and specifications shall include but are not limited to, the following:

1. The transformer, main service equipment and subpanel shall meet the minimum power requirement in Table 5.106.5.4.1 to accommodate the dedicated branch circuits for the future installation of EVSE.
2. The construction documents shall indicate on or more location(s) convenient to the planned offstreet loading space(s) reserved for medium-and heavy-duty ZEV charging cabinets and charging dispensers, and a pathway reserved for routing of conduit from the termination of the raceway(s) or busway(s) to the charging cabinet(s) and dispenser(s) as shown in Table 5.106.5.4.1
3. Raceway(s) or busway(s) originating at a main service panel or a subpanel(s) serving the area where potential future medium-and heavy-duty EVSE will be located and shall terminate in close proximity to the potential future location of the charging equipments for medium- and heavy-duty vehicles.
4. The raceway(s) or busway(s) shall be sufficient size to carry the minimum additional system load to the future location of the charging for medium- and heavy-duty ZEVs as shown in Table 5.106.5.4.1.

TABLE 5.106.5.4.1 RACEWAY CONDUIT AND PANEL POWER REQUIREMENTS FOR MEDIUM- AND HEAVY-DUTY EVSE [N]

BUILDING TYPE	BUILDING SIZE (SQ. FT.)	NUMBER OF OFF-STREET LOADING SPACES	ADDITIONAL CAPACITY REQUIRED (KVA) FOR RACEWAY & BUSWAY AND TRANSFORMER & PANEL
Grocery	10,000 to 90,000	1 or 2	200
		3 or Greater	400
	Greater than 90,000	1 or Greater	400
Retail	10,000 to 135,000	1 or 2	200
		3 or Greater	400
	Greater than 135,000	1 or Greater	400
Warehouse	20,000 to 256,000	1 or 2	200
		3 or Greater	400
	Greater than 256,000	1 or Greater	400

5.106.8 LIGHT POLLUTION REDUCTION. [N]. I Outdoor lighting systems shall be designed and installed to comply with the following:

1. The minimum requirements in the California Energy Code for Lighting Zones 0-4 as defined in Chapter 10, Section 10-114 of the California Administrative Code; and
2. Backlight (B) ratings as defined in IES TM-15-11 (shown in Table A-1 in Chapter 8);
3. Uplight and Glare ratings as defined in California Energy Code (shown in Tables 130.2-A and 130.2-B in Chapter 8) and
4. Allowable BUG ratings not exceeding those shown in Table 5.106.8, [N] or Comply with a local ordinance lawfully enacted pursuant to Section 101.7, whichever is more stringent.

Exceptions: [N]

1. Luminaires that qualify as exceptions in Sections 130.2 (b) and 140.7 of the California Energy Code.
2. Emergency lighting.
3. Building facade meeting the requirements in Table 140.7-B of the California Energy Code, Part 6.
4. Custom lighting features as allowed by the local enforcing agency, as permitted by Section 101.8 Alternate materials, designs and methods of construction.
5. Luminaires with less than 6,200 initial luminaire lumens.

TABLE 5.106.8 [N] MAXIMUM ALLOWABLE BACKLIGHT, UPLIGHT AND GLARE (BUG) RATINGS 1,2

ALLOWABLE RATING	LIGHTING ZONE LZ0	LIGHTING ZONE LZ1	LIGHTING ZONE LZ2	LIGHTING ZONE LZ3	LIGHTING ZONE LZ4
MAXIMUM ALLOWABLE BACKLIGHT RATING 3					
Luminaire greater than 2 mounting heights (MH) from property line	N/A	No Limit	No Limit	No Limit	No Limit
Luminaire back hemisphere is 1-2 MH from property line	N/A	B2	B3	B4	B4
Luminaire back hemisphere is 0.5-1 MH from property line	N/A	B1	B2	B3	B3
Luminaire back hemisphere is less than 0.5 MH from property line	N/A	B0	B0	B1	B2
MAXIMUM ALLOWABLE UPLIGHT RATING (U)					
For area lighting 3	N/A	U0	U0	U0	U0
For all other outdoor lighting,including decorative luminaires	N/A	U1	U2	U3	UR
MAXIMUM ALLOWABLE GLARE RATING 3 (G)					
	N/A	G1	G2	G3	G4
	N/A	G0	G1	G1	G2
	N/A	G0	G0	G1	G1
	N/A	G0	G0	G0	G1

1. IESNA Lighting Zones 0 and 5 are not applicable; refer to Lighting Zones as defined in the *California Energy Code* and Chapter 10 of the *California Administrative Code.*

2. For property lines that abut public walkways, bikeways, plazas and parking lots, the property line may be considered to be 5 feet beyond the actual property line for purpose of determining compliance with this section. For property lines that abut public roadways and public transit corridors, the property line may be considered to be the centerline of the public roadway or public transit corridor for the purpose of determining compliance with this section.

3. General lighting luminaires in areas such as outdoor parking, sales or storage lots shall meet these reduced ratings. Decorative luminaries located in these areas shall meet *U*-value limits for "all other outdoor lighting"

5.106.8.1 Facing- Backlight
Luminaries within 2MH of a property line shall be oriented so that the nearest property line is behind the fixture, and shall comply with the backlight rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point of that property line.
Exception: Corners. If two property lines (or two segments of the same property line) have equidistant point to the luminaire, then the luminaire may be oriented so that the intersection of the two lines (the corner) is directly behind the luminaire. The luminaire shall still use the distance to the nearest points(s) on the property lines to determine the required backlight rating.

5.106.8.2 Facing-Glare.
For luminaires covered by 5.106.8.1, if a property line also exists within or extends into the front hemisphere within 2MH of the luminaire then the luminaire shall comply with the more stringent glare rating specified in Table 5.106.8 based on the lighting zone and distance to the nearest point on the nearest property line within the front hemisphere.

Note: [N]
1.See also *California Building Code*, Chapter 12, Section 1205.6 for college campus lighting requirements for parking facilities and walkways.
2.Refer to Chapter 8 (Compliance Forms, Worksheets and Reference Material) for IES TM-15-11 Table A-1; *California Energy Code* Tables 130.2-A and 130.2-B.
3. Refer to the *California Building Code* for requirements for additions and alterations.

5.106.10 GRADING AND PAVING. Construction plans shall indicate how site grading or a drainage system will manage all surface water flows to keep water from entering buildings. Examples of methods to manage surface water include, but are not limited to, the following:

1. Swales.
2. Water collection and disposal systems.
3. French drains.
4. Water retention gardens.
5. Other water measures which keep surface water away from buildings and aid in groundwater recharge.
Exception: Additions and alterations not altering the drainage path.

5.106.12 SHADE TREES [DSA-SS]. Shade Trees shall be planted to comply with Sections 5.106.12.1, 5.106.12.2, and 5.106.12.3. Percentages shown shall be measured at noon on the summer solstice. Landscape irrigation necessary to establish and maintain tree health shall comply with Section 5.304.6.

5.106.12.1 Surface parking areas. Shade tree plantings, minimum #10 container size or equal, shall be installed to provide shade over 50 percent of the parking area within 15 years.

Exceptions: Surface parking area covered by solar photovoltaic shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.

5.106.12.2 Landscape areas. Shade tress plantings, minimum #10 container size or equal shall be installed to provide shade of 20% of the landscape area within 15 years.

Exceptions: Playfields for organized sport activity are not included in the total area calculation.

5.106.12.3. Hardscape areas. Shade tree plantings, minimum #10 container size or equal shall be installed to provide shade over 20 percent of the hardscape area within 15 years.

Exceptions:
1. Walks, hardscape areas covered by solar photovoltaic shade structures or shade structures with roofing materials that comply with Table A5.106.11.2.2 in Appendix A5 shall be permitted in whole or in part in lieu of shade tree planting.
2. Designated and marked play areas of organized sport activity are not included in the total area calculation.

DIVISION 5.2 ENERGY EFFICIENCY
SECTION 5.201 GENERAL

5.201.1 Scope [BSC-CG]. ***California Energy Code [DSA-SS].*** For the purposes of mandatory energy efficiency standards in this code, the California Energy Commission will continue to adopt mandatory building standards.

DIVISION 5.3 WATER EFFICIENCY AND CONSERVATION
SECTION 5.301 GENERAL

5.301.1 Scope. The provisions of this chapter shall establish the means of conserving water use indoors, outdoors and in wastewater conveyance.

SECTION 5.302 DEFINITIONS

5.302.1 Definitions. The following terms are defined in Chapter 2 *(and are included here for reference)*

EVAPOTRANSPIRATION ADJUSTMENT FACTOR (ETAF) [DSA-SS]. An adjustment factor when applied to reference evapotranspiration that adjusts for plant factors and irrigation efficiency, which are two major influences on the amount of water that needs to be applied to the landscape.

FOOTPRINT AREA [DSA-SS]. The total area of the furthest exterior wall of the structure projected to natural grade, not including exterior areas such as stairs, covered walkways, patios and decks.

METERING FAUCET. A self-closing faucet that dispenses a specific volume of water for each actuation cycle. The volume or cycle duration can be fixed or adjustable.

GRAYWATER. Pursuant to Health and Safety Code Section 17922.12, "graywater" means untreated wastewater that has not been contaminated by any toilet discharge, has not been affected by infectious, contaminated, or unhealthy bodily wastes, and does not present a threat from contamination by unhealthful processing, manufacturing, or operating wastes. "Graywater" includes, but is not limited to wastewater from bathtubs, showers, bathroom washbasins, clothes washing machines and laundry tubs, but does not include waste water from kitchen sinks or dishwashers.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). The California ordinance regulating landscape design, installation and maintenance practices that will ensure commercial, multifamily and other developer installed landscapes greater than 2500 square feet meet an irrigation water budget developed based on landscaped area and climatological parameters.

MODEL WATER EFFICIENT LANDSCAPE ORDINANCE (MWELO). [HCD] The California model ordinance (California Code of Regulations, Title 23, Division 2, Chapter 2.7), regulating landscape design, installation and maintenance practices. Local agencies are required to adopt the updated MWELO, or adopt a local ordinance at least as effective as the MWELO.

POTABLE WATER. Water that is drinkable and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards. See definition in the California Plumbing Code, Part 5.

POTABLE WATER. [HCD] Water that is satisfactory for drinking, culinary, and domestic purposes, and meets the U.S. Environmental Protection Agency (EPA) Drinking Water Standards and the requirements of the Health Authority Having Jurisdiction.

RECYCLED WATER. Water which, as a result of treatment of waste, is suitable for a direct beneficial use or a controlled use that would not otherwise occur [Water Code Section 13050 (n)]. Simply put, recycled water is water treated to remove waste matter attaining a quality that is suitable to use the water again.

SUBMETER. [HCD 1] A secondary device beyond a meter that measures water consumption of an individual rental unit within a multiunit residential structure or mixed-use residential and commercial structure. (See Civic Code Section 1954.202 (g) and Water code Section 517 for additional details.)

WATER BUDGET. Is the estimated total landscape irrigation water use which shall not exceed the maximum applied water allowance calculated in accordance with the Department of Water Resources Model Efficient Landscape Ordinance (MWELO).

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G005

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 2 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

SECTION 5.303 INDOOR WATER USE

5.303.1 METERS. Separate submeters or metering devices shall be installed for the uses described in Sections 503.1.1 and 503.1.2.

5.303.1.1 Buildings in excess of 50,000 square feet. Separate submeters shall be installed as follows:

1. For each individual leased, rented or other tenant space within the building projected to consume more than 100 gal/day (380 L/day), including, but not limited to, spaces used for laundry or cleaners, restaurant or food service, medical or dental office, laboratory, or beauty salon or barber shop.
2. Where separate submeters for individual building tenants are unfeasible, for water supplied to the following subsystems:
   a. Makeup water for cooling towers where flow through is greater than 500 gpm (30 L/s).
   b. Makeup water for evaporative coolers greater than 6 gpm (0.04 L/s).
   c. Steam and hot water boilers with energy input more than 500,000 Btu/h (147 kW).

5.303.1.2 Excess consumption. A separate submeter or metering device shall be provided for any tenant within a new building or within an addition that is projected to consume more than 1,000 gal/day.

☒ ☐ GC **5.303.3 WATER CONSERVING PLUMBING FIXTURES AND FITTINGS.** Plumbing fixtures (water closets and urinals) and fittings (faucets and showerheads) shall comply with the following:

☒ ☐ GC **5.303.3.1 Water Closets.** The effective flush volume of all water closets shall not exceed 1.28 gallons per flush. Tank-type water closets shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Tank-Type toilets.

Note: The effective flush volume of dual flush toilets is defined as the composite, average flush volume of two reduced flushes and one full flush.

5.303.3.2 Urinals.

☐ ☒ **5.303.3.2.1 Wall-mounted Urinals.** The effective flush volume of wall-mounted urinals shall not exceed 0.125 gallons per flush.

5.303.3.2.2 Floor-mounted Urinals. The effective flush volume of floor-mounted or other urinals shall not exceed 0.5 gallons per flush.

☐ ☒ **5.303.3.3 Showerheads. [BSC-CG]**

5.303.3.3.1 Single showerhead. Showerheads shall have a maximum flow rate of not more than 1.8 gallons per minute at 80 psi. Showerheads shall be certified to the performance criteria of the U.S. EPA WaterSense Specification for Showerheads.

5.303.3.3.2 Multiple showerheads serving one shower. When a shower is served by more than one showerhead, the combined flow rate of all the showerheads and/or other shower outlets controlled by a single valve shall not exceed 1.8 gallons per minute at 80 psi, or the shower shall be designed to allow only one shower outlet to be in operation at a time.
Note: A hand-held shower shall be considered a showerhead.

☒ ☐ GC **5.303.3.4 Faucets and fountains.**

5.303.3.4.1 Nonresidential Lavatory faucets. Lavatory faucets shall have a maximum flow rate of not more than 0.5 gallons per minute at 60 psi.

5.303.3.4.2 Kitchen faucets. Kitchen faucets shall have a maximum flow rate of not more than 1.8 gallons per minute at 60 psi. Kitchen faucets may temporarily increase the flow above the maximum rate, but not to exceed 2.2 gallons per minute at 60 psi, and must default to a maximum flow rate of 1.8 gallons per minute at 60 psi.

5.303.3.4.3 Wash fountains. Wash fountains shall have a maximum flow rate of not more than1.8 gallons per minute/20 [rim space (inches) at 60 psi].

5.303.3.4.4 Metering faucets. Metering faucets shall not deliver more than 0.20 gallons per cycle.

5.303.3.4.5 Metering faucets for wash fountains. Metering faucets for wash fountains shall have a maximum flow rate of not more than 0.20 gallons per minute/20 [rim space (inches) at 60 psi].

Note: Where complying faucets are unavailable, aerators or other means may be used to achieve reduction.

5.303.3.4.6 Pre-rinse spray value
When installed, shall meet the requirements in the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) Table H-2, Section 1605.3 (h)(4)(A), and Section 1607 (d)(7), and shall be equipped with an integral automatic shutoff.

FOR REFERENCE ONLY: The following table and code section have been reprinted from the *California Code of Regulations*, Title 20 (Appliance Efficiency Regulations), Section 1605.1 (h)(4) and Section 1605.3 (h)(4)(A).

TABLE H-2

STANDARDS FOR COMMERCIAL PRE-RINSE SPRAY VALUES MANUFACTURED ON OR AFTER JANUARY 28, 2019

PRODUCT CLASS [spray force in ounce force (ozf)]	MAXIMUM FLOW RATE (gpm)
Product Class 1 (≤ 5.0 ozf)	1.00
Product Class 2 (> 5.0 ozf and ≤ 8.0 ozf)	1.20
Product Class 3 (> 8.0 ozf)	1.28

☒ ☐ GC **5.303.4 COMMERCIAL KITCHEN EQUIPMENT.**

5.303.4.1 Food Waste Disposers. Disposers shall either modulate the use of water to no more than 1 gpm when the disposer is not in use (not actively grinding food waste/no-load) or shall automatically shut off after no more than 10 minutes of inactivity. Disposers shall use no more than 8 gpm of water.
Note: This code section does not affect local jurisdiction authority to prohibit or require disposer installation.

5.303.5 AREAS OF ADDITION OR ALTERATION. For those occupancies within the authority of the California Building Standards Commission as specified in Section 103, the provisions of Section 5.303.3 and 5.303.4 shall apply to new fixtures in additions or areas of alteration to the building.

5.303.6 STANDARDS FOR PLUMBING FIXTURES AND FITTINGS. Plumbing fixtures and fittings shall be installed in accordance with the *California Plumbing Code*, and shall meet the applicable standards referenced in Table 1701.1 of the *California Plumbing Code* and in Chapter 6 of this code.

SECTION 5.304 OUTDOOR WATER USE

☐ ☒ **5.304.1 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** Nonresidential developments shall comply with a local water efficient landscape ordinance or the current California Department of Water Resources' Model Water Efficient Landscape Ordinance (MWELO), whichever is more stringent.

Notes:
1. The Model Water Efficient Landscape Ordinance (MWELO) is located in the California Code of Regulations, Title 23, Chapter 2.7, Division 2.
2. MWELO and supporting documents, including a water budget calculator, are available at: https://www.water.ca.gov/.

☐ ☒ **5.304.6 OUTDOOR POTABLE WATER USE IN LANDSCAPE AREAS.** For public schools and community colleges, landscape projects as described in Sections 5.304.6.1 and 5.304.6.2 shall comply with the California Department of Water Resources Model Water Efficient Landscape Ordinance (MWELO) commencing with Section 490 of Chapter 2.7, Division 2, Title 23, *California Code of Regulations*, except that the evapotranspiration adjustment factor (ETAF) shall be 0.65 with an additional water allowance for special landscape areas (SLA) of 0.35.

Exception: Any project with an aggregate landscape area of 2,500 square feet or less may comply with the prescriptive measures contained in Appendix D of the MWELO.

5.304.6.1 Newly constructed landscapes. New construction projects with an aggregate landscape area equal to or greater than 500 square feet.

5.304.6.2 Rehabilitated landscapes. Rehabilitated landscape projects with an aggregate landscape area equal to or greater than 1,200 square feet.

DIVISION 5.4 MATERIAL CONSERVATION AND RESOURCE EFFICIENCY

SECTION 5.401 GENERAL

5.401.1 SCOPE. The provisions of this chapter shall outline means of achieving material conservation and resource efficiency through protection of buildings from exterior moisture, construction waste diversion, employment of techniques to reduce pollution through recycling of materials, and building commissioning or testing and adjusting.

SECTION 5.402 DEFINITIONS

5.402.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ADJUST. To regulate fluid flow rate and air patterns at the terminal equipment, such as to reduce fan speed or adjust a damper.

BALANCE. To proportion flows within the distribution system, including sub-mains, branches and terminals, according to design quantities.

BUILDING COMMISSIONING. A systematic quality assurance process that spans the entire design and construction process, including verifying and documenting that building systems and components are planned, designed, installed, tested, operated and maintained to meet the owner's project requirements.

ORGANIC WASTE. Food waste, green waste, landscape and pruning wste, nonhazardous wood waste, and food soiled paper waste that is mixed in with food waste.

TEST. A procedure to determine quantitative performance of a system or equipment

SECTION 5.407 WATER RESISTANCE AND MOISTURE MANAGEMENT

5.407.1 WEATHER PROTECTION. Provide a weather-resistant exterior wall and foundation envelope as required by California Building Code Section 1402.2 (Weather Protection), manufacturer's installation instructions or local ordinance, whichever is more stringent.

☒ ☐ GC **5.407.2 MOISTURE CONTROL.** Employ moisture control measures by the following methods.

5.407.2.1 Sprinklers. Design and maintain landscape irrigation systems to prevent spray on structures.

5.407.2.2 Entries and openings. Design exterior entries and/or openings subject to foot traffic or wind-driven rain to prevent water intrusion into buildings as follows:

5.407.2.2.1 Exterior door protection. Primary exterior entries shall be covered to prevent water intrusion by using nonabsorbent floor and wall finishes within at least 2 feet around and perpendicular to such openings plus at least one of the following:

1. An installed awning at least 4 feet in depth.
2. The door is protected by a roof overhang at least 4 feet in depth.
3. The door is recessed at least 4 feet.
4. Other methods which provide equivalent protection.

5.407.2.2.2 Flashing. Install flashings integrated with a drainage plane.

SECTION 5.408 CONSTRUCTION WASTE REDUCTION, DISPOSAL AND RECYCLING

☒ ☐ GC **5.408.1 CONSTRUCTION WASTE MANAGEMENT.** Recycle and/or salvage for reuse a minimum of 65% of the non-hazardous construction and demolition waste in accordance with Section 5.408.1.1, 5.408.1.2 or 5.408.1.3; or meet a local construction and demolition waste management ordinance, whichever is more stringent.

5.408.1.1 Construction waste management plan. Where a local jurisdiction does not have a construction and demolition waste management ordinance, submit a construction waste management plan that:

1. Identifies the construction and demolition waste materials to be diverted from disposal by efficient usage, recycling, reuse on the project or salvage for future use or sale.
2. Determines if construction and demolition waste materials will be sorted on-site (source-separated) or bulk mixed (single stream).
3. Identifies diversion facilities where construction and demolition waste material collected will be taken.
4. Specifies that the amount of construction and demolition waste materials diverted shall be calculated by weight or volume, but not by both.

5.408.1.2 Waste Management Company. Utilize a waste management company that can provide verifiable documentation that the percentage of construction and demolition waste material diverted from the landfill complies with this section.

Note: The owner or contractor shall make the determination if the construction and demolition waste material will be diverted by a waste management company.

Exceptions to Sections 5.408.1.1 and 5.408.1.2:

1. Excavated soil and land-clearing debris.
2. Alternate waste reduction methods developed by working with local agencies if diversion or recycle facilities capable of compliance with this item do not exist.
3. Demolition waste meeting local ordinance or calculated in consideration of local recycling facilities and markets.

5.408.1.3 Waste stream reduction alternative. The combined weight of new construction disposal that does not exceed two pounds per square foot of building area may be deemed to meet the 65% minimum requirement as approved by the enforcing agency.

5.408.1.4 Documentation. Documentation shall be provided to the enforcing agency which demonstrates compliance with Sections 5.408.1.1, through 5.408.1.3. The waste management plan shall be updated as necessary and shall be accessible during construction for examination by the enforcing agency.

Notes:

1. Sample forms found in "A Guide to the California Green Building Standards Code (Nonresidential)" located www.dgs.ca.gov/BSC/Resources/Page-Content/Building-Standards-Commission-Resources-List-Folder/CALGreen may be used to assist in documenting compliance with the waste management plan.
2. Mixed construction and demolition debris processors can be located at the California Department of Resources Recycling and Recovery (CalRecycle).

☒ ☐ GC **5.408.2 UNIVERSAL WASTE. [A]** Additions and alterations to a building or tenant space that meet the scoping provisions in Section 301.3 for nonresidential additions and alterations, shall require verification that Universal Waste items such as fluorescent lamps and ballast and mercury containing thermostats as well as other California prohibited Universal Waste materials are disposed of properly and are diverted from landfills. A list of prohibited Universal Waste materials shall be included in the construction documents.

Note: Refer to the Universal Waste Rule link at: http://www.dtsc.ca.gov/universalwaste/

5.408.3 EXCAVATED SOIL AND LAND CLEARING DEBRIS. 100 percent of trees, stumps, rocks and associated vegetation and soils resulting primarily from land clearing shall be reused or recycled. For a phased project, such material may be stockpiled on site until the storage site is developed.

Exception: Reuse, either on or off-site, of vegetation or soil contaminated by disease or pest infestation.

Notes:

1. If contamination by disease or pest infestation is suspected, contact the County Agricultural Commissioner and follow its direction for recycling or disposal of the material.
2. For a map of know pest and/or disease quarantine zones, consult with the California Department of Food and Agriculture. (www.cdfa.ca.gov)

SECTION 5.410 BUILDING MAINTENANCE AND OPERATIONS

☒ ☐ CMG **5.410.1 RECYCLING BY OCCUPANTS.** Provide readily accessible areas that serve the entire building and are identified for the depositing, storage and collection of non-hazardous materials for recycling, including (at a minimum) paper, corrugated cardboard, glass, plastics, organic waste, and metals or meet a lawfully enacted local recycling ordinance, if more restrictive.

Exception: Rural jurisdictions that meet and apply for the exemption in Public Resources Code 42649.82 (a)(2)(A) et seq. shall also be exempt from the organic waste portion of this section.

5.410.1.1 Additions. All additions conducted within a 12-month period under single or multiple permits, resulting in an increase of 30% or more in floor area, shall provide recycling areas on site.

Exception: Additions within a tenant space resulting in less than a 30% increase in the tenant space floor area.

5.410.1.2 Sample ordinance. Space allocation for recycling areas shall comply with Chapter 18, Part 3, Division 30 of the *Public Resources Code*, Chapter 18 is known as the California Solid Waste Reuse and Recycling Access Act of 1991 (Act).

Note: A sample ordinance for use by local agencies may be found in Appendix A of the document at the CalRecycle's web site.

☐ ☒ **5.410.2 COMMISSIONING. [N] New buildings 10,000 square feet and over.** For new buildings 10,000 square feet and over, building commissioning shall be included in the design and construction processes of the building project to verify that the building systems and components meet the owner's or owner representative's project requirements. Commissioning shall be performed in accordance with this section by trained personnel with experience on projects of comparable size and complexity. For I-occupancies that are not regulated by OSHPD or for I-occupancies and L-occupancies that are not regulated y the California Energy Code Section 100.0 Scope, all requirements in Sections 5.410.2 through 5.410.2.6 shall apply.

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting systems and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements

Commissioning requirements shall include:

1. Owner's or Owner representative's project requirements.
2. Basis of design.
3. Commissioning measures shown in the construction documents.
4. Commissioning plan.
5. Functional performance testing.
6. Documentation and training.
7. Commissioning report.

Exceptions:

1. Unconditioned warehouses of any size.
2. Areas less than 10,000 square feet used for offices or other conditioned accessory spaces within unconditioned warehouses.
3. Tenant improvements less than 10,000 square feet as described in Section 303.1.1.
4. Open parking garages of any size, or open parking garage areas, of any size, within a structure.

Note: For the purposes of this section, unconditioned shall mean a building, area, or room which does not provide heating and or air conditioning.

Informational Notes:

1. IAS AC 476 is an accreditation criteria for organizations providing training and/or certification of commissioning personnel. AC 476 is available to the Authority Having Jurisdiction as a reference for qualifications of commissioning personnel. AC 476 des not certify individuals to conduct functional performance tests or to adjust and balance systems.
2. Functional performance testing for heating, ventilation, air conditioning systems and lighting controls must be performed in compliance with the *California Energy Code*.

5.410.2.1 Owner's or Owner Representative's Project Requirements (OPR). [N] The expectations and requirements of the building appropriate to its phase shall be documented before the design phase of the project begins. This documentation shall include the following:
1. Environmental and sustainability goals.
2. Building sustainable goals.
3. Indoor environmental quality requirements.
4. Project program, including facility functions and hours of operation, and need for after hours operation.
5. Equipment and systems expectations.
6. Building occupant and operation and maintenance (O&M) personnel expectations.

5.410.2.2 Basis of Design (BOD). [N] A written explanation of how the design of the building systems meets the OPR shall be completed at the design phase of the building project. The Basis of Design document shall cover the following systems:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse system.

5.410.2.3 Commissioning plan. [N] Prior to permit issuance a commissioning plan shall be completed to document how the project will be commissioned. The commissioning plan shall include the following:
1. General project information.
2. Commissioning goals.
3. Systems to be commissioned. Plans to test systems and components shall include:
   a. An explanation of the original design intent.
   b. Equipment and systems to be tested, including the extent of tests.
   c. Functions to be tested.
   d. Conditions under which the test shall be performed.
   e. Measurable criteria for acceptable performance.
4. Commissioning team information.
5. Commissioning process activities, schedules and responsibilities. Plans for the completion of commissioning shall be included.

5.410.2.4 Functional performance testing. [N] Functional performance tests shall demonstrate the correct installation and operation of each component, system and system-to-system interface in accordance with the approved plans and specifications. Functional performance testing reports shall contain information addressing each of the building components tested, the testing methods utilized, and include any readings and adjustments made.

5.410.2.5 Documentation and training. [N] A Systems Manual and Systems Operations Training are required, including Occupational Safety and Health Act (OSHA) requirements in *California Code of Regulations* (CCR), Title 8, Section 5142, and other related regulations.

5.410.2.5.1 Systems manual. [N] Documentation of the operational aspects of the building shall be completed within the systems manual and delivered to the building owner or representative. The systems manual shall include the following:
1. Site information, including facility description, history and current requirements.
2. Site contact information.
3. Basic operations and maintenance, including general site operating procedures, basic troubleshooting, recommended maintenance requirements, site events log.
4. Major systems.
5. Site equipment inventory and maintenance notes.
6. A copy of verifications required by the enforcing agency or this code.
7. Other resources and documentation, if applicable.

5.410.2.5.2 Systems operations training. [N] A program for training of the appropriate maintenance staff for each equipment type and/or system shall be developed and documented in the commissioning report and shall include the following:
1. System/equipment overview (what it is, what it does and with what other systems and/or equipment it interfaces).
2. Review and demonstration of servicing/preventive maintenance.
3. Review of the information in the Systems Manual.
4. Review of the record drawings on the system/equipment.

5.410.2.6 Commissioning report. [N] A report of commissioning process activities undertaken through the design and construction phases of the building project shall be completed and provided to the owner or representative.

☒ ☐ GC **5.410.4 TESTING AND ADJUSTING. New buildings less than 10,000 square feet.** Testing and adjusting of systems shall be required for new buildings less than 10,000 square feet or new systems to serve an addition or alteration subject to Section 303.1.

5.410.4.2 (Reserved)

Note: For energy-related systems under the scope (Section 100) of the California Energy Code, including heating, ventilation, air conditioning (HVAC) systems and controls, indoor lighting system and controls, as well as water heating systems and controls, refer to California Energy Code Section 120.8 for commissioning requirements and Sections 120.5, 120.6, 130.4, and 140.9(b)3 for additional testing requirements of specific systems.

5.410.4.2 Systems. Develop a written plan of procedures for testing and adjusting systems. Systems to be included for testing and adjusting shall include at a minimum, as applicable to the project:

1. Renewable energy systems.
2. Landscape irrigation systems.
3. Water reuse systems.

5.410.4.3 Procedures. Perform testing and adjusting procedures in accordance with manufacturer's specifications and applicable standards on each system.

5.410.4.3.1 HVAC balancing. In addition to testing and adjusting, before a new space-conditioning system serving a building or space is operated for normal use, the system shall be balanced in accordance with the procedures defined by the Testing Adjusting and Balancing Bureau National Standards; the National Environmental Balancing Bureau Procedural Standards; Associated Air Balance Council National Standards or as approved by the enforcing agency.

5.410.4.4 Reporting. After completion of testing, adjusting and balancing, provide a final report of testing signed by the individual responsible for performing these services.

5.410.4.5 Operation and maintenance (O & M) manual. Provide the building owner or representative with detailed operating and maintenance instructions and copies of guaranties/warranties for each system. O & M instructions shall be consistent with OSHA requirements in CCR, Title 8, Section 5142, and other related regulations.

5.410.4.5.1 Inspections and reports. Include a copy of all inspection verifications and reports required by the enforcing agency.

DIVISION 5.5 ENVIRONMENTAL QUALITY

SECTION 5.501 GENERAL

5.501.1 SCOPE. The provisions of this chapter shall outline means of reducing the quantity of air contaminants that are odorous, irritating, and/or harmful to the comfort and well-being of a building's installers, occupants and neighbors.

SECTION 5.502 DEFINITIONS

5.502.1 DEFINITIONS. The following terms are defined in Chapter 2 *(and are included here for reference)*

ARTERIAL HIGHWAY. A general term denoting a highway primarily for through traffic usually on a continuous route.

A-WEIGHTED SOUND LEVEL (dBA). The sound pressure level in decibels as measured on a sound level meter using the internationally standardized A-weighting filter or as computed from sound spectral data to which A-weighting adjustments have been made.

1 BTU/HOUR. British thermal units per hour, also referred to as Btu. The amount of heat required to raise one pound of water one degree Fahrenheit per hour, a common measure of heat transfer rate. A ton of refrigeration is 12,000 Btu, the amount of heat required to melt a ton (2,000 pounds) of ice at 32º Fahrenheit.

COMMUNITY NOISE EQUIVALENT LEVEL (CNEL). A metric similar to the day-night average sound level (Ldn), except that a 5 decibel adjustment is added to the equivalent continuous sound exposure level for evening hours (7pm to 10pm) in addition to the 10 dB nighttime adjustment used in the Ldn.

COMPOSITE WOOD PRODUCTS. Composite wood products include hardwood plywood, particleboard and medium density fiberboard. "Composite wood products" does not include hardboard, structural plywood, structural panels, structural composite lumber, oriented strand board, glued laminated timber, timber, prefabricated wood I–joists or finger–jointed lumber, all as specified in California Code of Regulations (CCR), Title 17, Section 93120.1(a).

Note: See CCR, Title 17, Section 93120.1.

DAY-NIGHT AVERAGE SOUND LEVEL (Ldn). The A-weighted equivalent continuous sound exposure level for a 24-hour period with a 10 dB adjustment added to sound levels occurring during nighttime hours (10p.m. to 7 a.m.).

DECIBEL (db). A measure on a logarithmic scale of the magnitude of a particular quantity (such as sound pressure, sound power, sound intensity) with respect to a reference quantity.

ELECTRIC VEHICLE (EV). An automotive-type vehicle for on-road use, such as passenger automobiles, buses, trucks, vans, neighborhood electric vehicles, electric motorcycles, and the like, primarily powered by an electric motor that draws current from a rechargeable storage battery, fuel cell, photovoltaic array, or other source of electric current. Plug-in hybrid electric vehicles (PHEV) are considered electric vehicles. For purposes of the *California Electrical Code*, off-road, self-propelled electric vehicles, such as industrial trucks, hoists, lifts, transports, golf carts, airline ground support equipment, tractors, boats, and the like, are not included.

ELECTRIC VEHICLE CHARGING STATION(S) (EVCS)). One or more spaces intended for charging electric vehicles.

ELECTRIC VEHICLE SUPPLY EQUIPMENT (EVSE). The conductors, including the ungrounded, grounded, and equipment grounding conductors and the electric vehicle connectors, attachment plugs, and all other fittings, devices, power outlets, or apparatus installed specifically for the purpose of transferring energy between the premises wiring and the electric vehicle.

ENERGY EQUIVALENT (NOISE) LEVEL (Leq). The level of a steady noise which would have the same energy as the fluctuating noise level integrated over the time of period of interest.

EXPRESSWAY. An arterial highway for through traffic which may have partial control of access, but which may or may not be divided or have grade separations at intersections.

FREEWAY. A divided arterial highway with full control of access and with grade separations at intersections.

GLOBAL WARMING POTENTIAL (GWP). The radiative forcing impact of one mass-based unit of a given greenhouse gas relative to an equivalent unit of carbon dioxide over a given period of time. Carbon dioxide is the reference compound with a GWP of one.

GLOBAL WARMING POTENTIAL VALUE (GWP VALUE). A 100-year GWP value published by the Intergovernmental Panel on Climate Change (IPCC) in either its Second Assessment Report (SAR) (IPCC, 1995); or its Fourth Assessment A-3 Report (AR4) (IPCC, 2007). The SAR GWP values are found in column "SAR (100-yr)" of Table 2.14.; the AR4 GWP values are found in column "100 yr" of Table 2.14.

HIGH-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that is: (a) a chlorofluorocarbon, a hdrochlorofluorocarbon, a hydrofluorocarbon, a perfluorocarbon, or any compound or blend of compounds, with a GWP value equal to or greater than 150, or (B) any ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

LONG RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.5 times the pipe diameter.

LOW-GWP REFRIGERANT. A compound used as a heat transfer fluid or gas that: (A) has a GWP value less than 150, and (B) is not an ozone depleting substance as defined in Title 40 of the Code of Federal Regulations, Part 82, sec.82.3 (as amended March 10, 2009).

MERV. Filter minimum efficiency reporting value, based on ASHRAE 52.2–1999.

MAXIMUM INCREMENTAL REACTIVITY (MIR). The maximum change in weight of ozone formed by adding a compound to the "Base REactive Organic Gas (ROG) Mixture" per weight of compound added, expressed to hundreths of a gram (g O^3/g ROC).

PRODUCT-WEIGHTED MIR (PWMIR). The sum of all weighted-MIR for all ingredients in a product subject to this article. The PWMIR is the total product reactivity expressed to hundredths of a gram of ozone formed per gram of product (excluding container and packaging).

PSIG. Pounds per square inch, guage.

REACTIVE ORGANIC COMPOUND (ROC). Any compound that has the potential, once emitted, to contribute to ozone formation in the troposphere.

SCHRADER ACCESS VALVES. Access fittings with a valve core installed.

SHORT RADIUS ELBOW. Pipe fitting installed between two lengths of pipe or tubing to allow a change of direction, with a radius 1.0 times the pipe diameter.

SUPERMARKET. For the purposes of Section 5.508.2, a supermarket is any retail food facility with 8,000 square feet or more conditioned area, and that utilizes either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units.

VOC. A volatile organic compound broadly defined as a chemical compound based on carbon chains or rings with vapor pressures greater than 0.1 millimeters of mercury at room temperature. These compounds typically contain hydrogen and may contain oxygen, nitrogen and other elements. See CCR Title 17, Section 94508(a)

Note: Where specific regulations are cited from different agencies such as SCAQMD, ARB, etc., the VOC definition included in that specific regulation is the one that prevails for the specific measure in question.

SECTION 5.503 FIREPLACES

☐ ☒ **5.503.1 FIREPLACES.** Install only a direct-vent sealed-combustion gas or sealed wood-burning fireplace, or a sealed woodstove or pellet stove, and refer to residential requirements in the California Energy Code, Title 24, Part 6, Subchapter 7, Section 150. Woodstoves, pellet stoves and fireplaces shall comply with applicable local ordinances.

5.503.1.1 Woodstoves. Woodstoves and pellet stoves shall comply with U.S. EPA New Source Performance Standards (NSPS) emission limits as applicable, and shall have a permanent label indicating they are certified to meet the emission limits.

SECTION 5.504 POLLUTANT CONTROL

☒ ☐ GC **5.504.1 TEMPORARY VENTILATION.** The permanent HVAC system shall only be used during construction if necessary to condition the building or areas of addition or alteration within the required temperature range for material and equipment installation. If the HVAC system is used during construction, use return air filters with a Minimum Efficiency Reporting Value (MERV) of 8, based on ASHRAE 52.2-1999, or an average efficiency of 30% based on ASHRAE 52.1-1992 Replace all filters immediately prior to occupancy, or, if the building is occupied during alteration, at the conclusion of construction.

☒ ☐ GC **5.504.3 Covering of duct openings and protection of mechanical equipment during construction.** At the time of rough installation and during storage on the construction site until final startup of the heating, cooling and ventilation equipment, all duct and other related air distribution component openings shall be covered with tape, plastic, sheetmetal or other methods acceptable to the enforcing agency to reduce the amount of dust, water and debris which may enter the system.

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G006

2022 CALIFORNIA GREEN BUILDING STANDARDS CODE

NONRESIDENTIAL MANDATORY MEASURES, SHEET 3 (January 2023)

Y = YES
N/A = NOT APPLICABLE
RESPON. PARTY = RESPONSIBLE PARTY (ie: ARCHITECT, ENGINEER, OWNER, CONTRACTOR, INSPECTOR ETC.)

Y	N/A	RESPON. PARTY
☒	☐	GC

5.504.4 FINISH MATERIAL POLLUTANT CONTROL. Finish materials shall comply with Sections 5.504.4.1 through 5.504.4.6.

5.504.4.1 Adhesives, sealants and caulks. Adhesives, sealants, and caulks used on the project shall meet the requirements of the following standards:

1. Adhesives, adhesive bonding primers, adhesive primers, sealants, sealant primers and caulks shall comply with local or regional air pollution control or air quality management district rules where applicable, or SCAQMD Rule 1168 VOC limits, as shown in Tables 5.504.4.1 and 5.504.4.2. Such products also shall comply with the Rule 1168 prohibition on the use of certain toxic compounds (chloroform, ethylene dichloride, methylene chloride, perchloroethylene and trichloroethylene), except for aerosol products as specified in subsection 2, below.

2. Aerosol adhesives, and smaller unit sizes of adhesives, and sealant or caulking compounds (in units of product, less packaging, which do not weigh more than one pound and do not consist of more than 16 fluid ounces) shall comply with statewide VOC standards and other requirements, including prohibitions on use of certain toxic compounds, of *California Code of Regulations*, Title 17, commencing with Section 94507.

TABLE 5.504.4.1 - ADHESIVE VOC LIMIT1,2

Less Water and Less Exempt Compounds in Grams per Liter

ARCHITECTURAL APPLICATIONS	CURRENT VOC LIMIT
INDOOR CARPET ADHESIVES	50
CARPET PAD ADHESIVES	50
OUTDOOR CARPET ADHESIVES	150
WOOD FLOORING ADHESIVES	100
RUBBER FLOOR ADHESIVES	60
SUBFLOOR ADHESIVES	50
CERAMIC TILE ADHESIVES	65
VCT & ASPHALT TILE ADHESIVES	50
DRYWALL & PANEL ADHESIVES	50
COVE BASE ADHESIVES	50
MULTIPURPOSE CONSTRUCTION ADHESIVES	70
STRUCTURAL GLAZING ADHESIVES	100
SINGLE-PLY ROOF MEMBRANE ADHESIVES	250
OTHER ADHESIVES NOT SPECIFICALLY LISTED	50
SPECIALTY APPLICATIONS	
PVC WELDING	510
CPVC WELDING	490
ABS WELDING	325
PLASTIC CEMENT WELDING	250
ADHESIVE PRIMER FOR PLASTIC	550
CONTACT ADHESIVE	80
SPECIAL PURPOSE CONTACT ADHESIVE	250
STRUCTURAL WOOD MEMBER ADHESIVE	140
TOP & TRIM ADHESIVE	250
SUBSTRATE SPECIFIC APPLICATIONS	
METAL TO METAL	30
PLASTIC FOAMS	50
POROUS MATERIAL (EXCEPT WOOD)	50
WOOD	30
FIBERGLASS	80

1. IF AN ADHESIVE IS USED TO BOND DISSIMILAR SUBSTRATES TOGETHER, THE ADHESIVE WITH THE HIGHEST VOC CONTENT SHALL BE ALLOWED.

2. FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THIS TABLE, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168, www.arb.ca.gov/DRDB/SC/CURHTML/R1168.PDF

TABLE 5.504.4.2 - SEALANT VOC LIMIT

Less Water and Less Exempt Compounds in Grams per Liter

SEALANTS	CURRENT VOC LIMIT
ARCHITECTURAL	250
MARINE DECK	760
NONMEMBRANE ROOF	300
ROADWAY	250
SINGLE-PLY ROOF MEMBRANE	450
OTHER	420
SEALANT PRIMERS	
ARCHITECTURAL	
NONPOROUS	250
POROUS	775
MODIFIED BITUMINOUS	500
MARINE DECK	760
OTHER	750

NOTE: FOR ADDITIONAL INFORMATION REGARDING METHODS TO MEASURE THE VOC CONTENT SPECIFIED IN THESE TABLES, SEE SOUTH COAST AIR QUALITY MANAGEMENT DISTRICT RULE 1168.

5.504.4.3 Paints and coatings. Architectural paints and coatings shall comply with VOC limits in Table 1 of the ARB Architectural Coatings Suggested Control Measure, as shown in Table 5.504.4.3, unless more stringent local limits apply. The VOC content limit for coatings that do not meet the definitions for the specialty coatings categories listed in Table 5.504.4.3 shall be determined by classifying the coating as a Flat, Nonflat or Nonflat-High Gloss coating, based on its gloss, as defined in Subsections 4.21, 4.36 and 4.37 of the 2007 California Air Resources Board Suggested Control Measure, and the corresponding Flat, Nonflat or Nonflat-High Gloss VOC limit in Table 5.504.4.3 shall apply.

5.504.4.3.1 Aerosol Paints and coatings. Aerosol paints and coatings shall meet the PWMIR Limits for ROC in Section 94522(a)(3) and other requirements, including prohibitions on use of certain toxic compounds and ozone depleting substances, in Sections 94522(c)(2) and (d)(2) of *California Code of Regulations*, Title 17, commencing with Section 94520; and in areas under the jurisdiction of the Bay Area Air Quality Management District additionally comply with the percent VOC by weight of product limits of Regulation 8 Rule 49.

Y	N/A	RESPON. PARTY

TABLE 5.504.4.3 - CONT.

GRAMS OF VOC PER LITER OF COATING, LESS WATER & LESS EXEMPT COMPOUNDS

COATING CATEGORY	CURRENT VOC LIMIT
SPECIALTY COATINGS	
ALUMINUM ROOF COATINGS	400
BASEMENT SPECIALTY COATINGS	400
BITUMINOUS ROOF COATINGS	50
BITUMINOUS ROOF PRIMERS	350
BOND BREAKERS	350
CONCRETE CURING COMPOUNDS	350
CONCRETE/MASONRY SEALERS	100
DRIVEWAY SEALERS	50
DRY FOG COATINGS	150
FAUX FINISHING COATINGS	350
FIRE RESISTIVE COATINGS	350
FLOOR COATINGS	100
FORM-RELEASE COMPOUNDS	250
GRAPHIC ARTS COATINGS (SIGN PAINTS)	500
HIGH-TEMPERATURE COATINGS	420
INDUSTRIAL MAINTENANCE COATINGS	250
LOW SOLIDS COATINGS1	120
MAGNESITE CEMENT COATINGS	450
MASTIC TEXTURE COATINGS	100
METALLIC PIGMENTED COATINGS	500
MULTICOLOR COATINGS	250
PRETREATMENT WASH PRIMERS	420
PRIMERS, SEALERS, & UNDERCOATERS	100
REACTIVE PENETRATING SEALERS	350
RECYCLED COATINGS	250
ROOF COATINGS	50
RUST PREVENTATIVE COATINGS	250
SHELLACS:	
CLEAR	730
OPAQUE	550
SPECIALTY PRIMERS, SEALERS & UNDERCOATERS	100
STAINS	250
STONE CONSOLIDANTS	450
SWIMMING POOL COATINGS	340
TRAFFIC MARKING COATINGS	100
TUB & TILE REFINISH COATINGS	420
WATERPROOFING MEMBRANES	250
WOOD COATINGS	275
WOOD PRESERVATIVES	350
ZINC-RICH PRIMERS	340

1. GRAMS OF VOC PER LITER OF COATING, INCLUDING WATER & EXEMPT COMPOUNDS

2. THE SPECIFIED LIMITS REMAIN IN EFFECT UNLESS REVISED LIMITS ARE LISTED IN SUBSEQUENT COLUMNS IN THE TABLE.

3. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, ARCHITECTURAL COATINGS SUGGESTED CONTROL MEASURE, FEB. 1, 2008. MORE INFORMATION IS AVAILABLE FROM THE AIR RESOURCES BOARD.

5.504.4.3.2 Verification. Verification of compliance with this section shall be provided at the request of the enforcing agency. Documentation may include, but is not limited to, the following:

1. Manufacturer's product specification
2. Field verification of on-site product containers

5.504.4.4 Carpet Systems.
All carpet installed in the building interior shall meet the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers." Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.1 Carpet cushion. All carpet cushion installed in the building interior shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers,"Version 1.2, January 2017 (Emission testing method for California Specifications 01350).

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.4.2 Carpet adhesive. All carpet adhesive shall meet the requirements of Table 5.504.4.1.

5.504.4.5 Composite wood products. Hardwood plywood, particleboard and medium density fiberboard composite wood products used on the interior or exterior of the buildings shall meet the requirements for formaldehyde as specified in ARB's Air Toxics Control Measure (ATCM) for Composite Wood (17 CCR 93120 et seq.). Those materials not exempted under the ATCM must meet the specified emission limits, as shown in Table 5.504.4.5.

5.504.4.5.3 Documentation. Verification of compliance with this section shall be provided as requested by the enforcing agency. Documentation shall include at least one of the following:

1. Product certifications and specifications.
2. Chain of custody certifications.
3. Product labeled and invoiced as meeting the Composite Wood Products regulation (see CCR, Title 17, Section 93120, et seq.).
4. Exterior grade products marked as meeting the PS-1 or PS-2 standards of the Engineered Wood Association, the Australian AS/NZS 2269 or European 636 3S standards.
5. Other methods acceptable to the enforcing agency.

TABLE 5.504.4.5 - FORMALDEHYDE LIMITS1

MAXIMUM FORMALDEHYDE EMISSIONS IN PARTS PER MILLION

PRODUCT	CURRENT LIMIT
HARDWOOD PLYWOOD VENEER CORE	0.05
HARDWOOD PLYWOOD COMPOSITE CORE	0.05
PARTICLE BOARD	0.09
MEDIUM DENSITY FIBERBOARD	0.11
THIN MEDIUM DENSITY FIBERBOARD2	0.13

1. VALUES IN THIS TABLE ARE DERIVED FROM THOSE SPECIFIED BY THE CALIFORNIA AIR RESOURCES BOARD, AIR TOXICS CONTROL MEASURE FOR COMPOSITE WOOD AS TESTED IN ACCORDANCE WITH ASTM E 1333. FOR ADDITIONAL INFORMATION, SEE CALIFORNIA CODE OF REGULATIONS, TITLE 17, SECTIONS 93120 THROUGH 93120.12.

2. THIN MEDIUM DENSITY FIBERBOARD HAS A MAXIMUM THICKNESS OF 5/16 INCHES (8 MM).

Y	N/A	RESPON. PARTY
☐	☐	

Y	N/A	RESPON. PARTY
☐	☒	

5.504.4.6 Resilient flooring systems. Where resilient flooring is installed, at least 80 percent of floor area receiving resilient flooring shall meet the requirements of the California Department of Public Health,"Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers," Version 1.2, January 2017 (Emission testing method for California Specifications 01350)

See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.6.1 Verification of compliance. Documentation shall be provided verifying that resilient flooring materials meet the pollutant emission limits.

5.504.4.7 Thermal insulation
Comply with the requirements of the California Department of Public Health, "Standard Method of the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, "Version 1.2, January 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.
https://www.cdph.ca.gov/Programs/CCDPHP/DEODC/EHLB/IAQ/Pages/VOC.aspx#material

5.504.4.7.1 Verification of compliance.
Documentation shall be provided verifying that thermal insulation materials meet the pollutant emission limits.

5.504.4.8 Acoustical ceiling and wall panels.
Comply with the requirements of the California Department of Public Health, "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, " Version 1.2, January 2017 (Emission testing method for California Specification 01350).
See California Department of Public Health's website for certification programs and testing labs.

5.504.4.8.1 Verification of compliance. Documentation shall be provided verifying that acoustical finish materials meet the pollutant emission limits.

5.504.5.3 Filters. In mechanically ventilated buildings, provide regularly occupied areas of the building with air filtration media for outside and return air that provides at least a Minimum Efficiency Reporting Value (MERV) of 13. MERV 13 filters shall be installed prior to occupancy, and recommendations for maintenance with filters of the same value shall be included in the operation and maintenance manual.

Exceptions: Existing mechanical equipment.

5.504.5.3.1 Labeling. Installed filters shall be clearly labeled by the manufacturer indicating the MERV rating.

☐	☒	

5.504.7 ENVIRONMENTAL TOBACCO SMOKE (ETS) CONTROL. Where outdoor areas are provided for smoking, prohibit smoking within 25 feet of building entries, outdoor air intakes and operable windows and within the building as already prohibited by other laws or regulations; or as enforced by ordinances, regulations or policies of any city, county, city and county, California Community College, campus of the California State University, or campus of the University of California, whichever are more stringent. When ordinances, regulations or policies are not in place, post signage to inform building occupants of the prohibitions.

SECTION 5.505 INDOOR MOISTURE CONTROL

☒	☐	GC

5.505.1 INDOOR MOISTURE CONTROL. Buildings shall meet or exceed the provisions of California Building Code, CCR, Title 24, Part 2, Sections 1202 (Ventilation) and Chapter 14 (Exterior Walls). For additional measures, see Section 5.407.2 of this code.

SECTION 5.506 INDOOR AIR QUALITY

☒	☐	GC

5.506.1 OUTSIDE AIR DELIVERY. For mechanically or naturally ventilated spaces in buildings, meet the minimum requirements of Section 120.1 (Requirements For Ventilation) of the *California Energy Code*, or the applicable local code, whichever is more stringent, and Division 1, Chapter 4 of CCR, Title 8.

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5.506.2 CARBON DIOXIDE (CO_2) MONITORING. For buildings or additions equipped with demand control ventilation, CO_2 sensors and ventilation controls shall be specified and installed in accordance with the requirements of the California Energy Code, Section 120(c)(4).

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5.506.3 Carbon dioxide (CO2) monitoring in classrooms.
(DSA-SS) Each public K-12 school classroom, as listed in Table 120.1-A of the *California Energy Code*, shall be equipped with a carbon dioxide monitor or sensor that meets the following requirements:

1. The monitor or sensor shall be permanently affixed in a tamper-proof manner in each classroom between 3 and 6 feet (914 mm and 1829 mm) above the floor and at least 5 feet (1524 mm) away from door and operable windows.
2. When the monitor or sensor is not integral to an Energy Management Control System (EMCS), the monitor or sensor shall display the carbon dioxide readings on the device. When the sensor is integral to an EMCS, the carbon dioxide readings shall be available to and regularly monitored by facility personnel.
3. A monitor shall provide notification though a visual indicator on the monitor when the carbon dioxide levels in the classroom have exceeded 1,100ppm. A sensor integral to an EMCS shall provide notification to facility personnel through a visual and/or audible indicator when the carbon dioxide levels in the classroom have exceeded 1,100ppm.
4. The monitor or sensor shall measure carbon dioxide levels at minimum 15- minute intervals and shall maintain a record of previous carbon dioxide measurements of not less than 30 days duration.
5. The monitor or sensor used to measure carbon dioxide levels shall have the capacity to measure carbon dioxide levels with a range of 400ppm to 2000ppm or greater.
6. The monitor or sensor shall be certified by the manufacturer to be accurate within 75ppm at 1,000ppm carbon dioxide concentration and shall be certified by the manufacturer to require calibration no more frequently than once every 5 years.

SECTION 5.507 ENVIRONMENTAL COMFORT

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5.507.4 ACOUSTICAL CONTROL. Employ building assemblies and components with Sound Transmission Class (STC) values determined in accordance with ASTM E 90 and ASTM E 413, or Outdoor-Indoor Sound Transmission Class (OITC) determined in accordance with ASTM E 1332, using either the prescriptive or performance method in Section 5.507.4.1 or 5.507.4.2.

Exception: Buildings with few or no occupants or where occupants are not likely to be affected by exterior noise, as determined by the enforcement authority, such as factories, stadiums, storage, enclosed parking structures and utility buildings.

Exception: [DSA-SS] For public schools and community colleges, the requirements of this section and all subsections apply only to new construction.

5.507.4.1 Exterior noise transmission, prescriptive method. Wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall meet a composite STC rating of at least 50 or a composite OITC rating of no less than 40, with exterior windows of a minimum STC of 40 or OITC of 30 in the following locations:

1. Within the 65 CNEL noise contour of an airport.

Exceptions:

1. L_{dn} or CNEL for military airports shall be determined by the facility Air Installation Compatible Land Use Zone (AICUZ) plan.
2. L_{dn} or CNEL for other airports and heliports for which a land use plan has not been developed shall be determined by the local general plan noise element.

2. Within the 65 CNEL or L_{dn} noise contour of a freeway or expressway, railroad, industrial source or fixed-guideway source as determined by the Noise Element of the General Plan.

5.507.4.1.1. Noise exposure where noise contours are not readily available. Buildings exposed to a noise level of 65 dB L_{eq} - 1-hr during any hour of operation shall have building, addition or alteration exterior wall and roof-ceiling assemblies exposed to the noise source meeting a composite STC rating of at least 45 (or OITC 35), with exterior windows of a minimum STC of 40 (or OITC 30).

5.507.4.2 Performance Method. For buildings located as defined in Section 5.507.4.1 or 5.507.4.1.1, wall and roof-ceiling assemblies exposed to the noise source making up the building or addition envelope or altered envelope shall be constructed to provide an interior noise environment attributable to exterior sources that does not exceed an hourly equivalent noise level (Leq-1Hr) of 50 dBA in occupied areas during any hour of operation.

5.507.4.2.1 Site Features. Exterior features such as sound walls or earth berms may be utilized as appropriate to the building, addition or alteration project to mitigate sound migration to the interior.

5.507.4.2.2 Documentation of Compliance. An acoustical analysis documenting complying interior sound levels shall be prepared by personnel approved by the architect or engineer of record.

5.507.4.3 Interior sound transmission. Wall and floor-ceiling assemblies separating tenant spaces and tenant spaces and public places shall have an STC of at least 40.

Note: Examples of assemblies and their various STC ratings may be found at the California Office of Noise Control: www.toolbase.org/PDF/CaseStudies/stc_icc_ratings.pdf.

SECTION 5.508 OUTDOOR AIR QUALITY

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5.508.1 Ozone depletion and greenhouse gas reductions. Installations of HVAC, refrigeration and fire suppression equipment shall comply with Sections 5.508.1.1 and 5.508.1.2.

5.508.1.1 Chlorofluorocarbons (CFCs). Install HVAC, refrigeration and fire suppression equipment that do not contain CFCs.

5.508.1.2 Halons. Install HVAC, refrigeration and fire suppression equipment that do not contain Halons.

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5.508.2 Supermarket refrigerant leak reduction. New commercial refrigeration systems shall comply with the provisions of this section when installed in retail food stores 8,000 square feet or more conditioned area, and that utilize either refrigerated display cases, or walk-in coolers or freezers connected to remote compressor units or condensing units. The leak reduction measures apply to refrigeration systems containing high-global-warming potential (high-GWP) refrigerants with a GWP of 150 or greater. New refrigeration systems include both new facilities and the replacement of existing refrigeration systems in existing facilities.

Exception: Refrigeration systems containing low-global warming potential (low-GWP) refrigerant with a GWP value less than 150 are not subject to this section. Low-GWP refrigerants are nonozone-depleting refrigerants that include ammonia, carbon dioxide (CO_2), and potentially other refrigerants.

5.508.2.1 Refrigerant piping. Piping compliant with the California Mechanical Code shall be installed to be accessible for leak protection and repairs. Piping runs using threaded pipe, copper tubing with an outside diameter (OD) less than 1/4 inch, flared tubing connections and short radius elbows shall not be used in refrigerant systems except as noted below.

5.508.2.1.1 Threaded pipe. Threaded connections are permitted at the compressor rack.

5.508.2.1.2 Copper pipe. Copper tubing with an OD less than 1/4 inch may be used in systems with a refrigerant charge of 5 pounds or less.

5.508.2.1.2.1 Anchorage. One-fouth-inch OD tubing shall be securely clamped to a rigid base to keep vibration levels below 8 mils.

5.508.2.1.3 Flared tubing connections. Double-flared tubing connections may be used for pressure controls, valve pilot lines and oil.

Exception: Single-flared tubing connections may be used with a multiring seal coated with industrial sealant suitable for use with refrigerants and tightened in accordance with manufacturer's recommendations.

5.508.2.1.4 Elbows. Short radius elbows are only permitted where space limitations prohibit use of long radius elbows.

5.508.2.2 Valves. Valves Valves and fittings shall comply with the *California Mechanical Code* and as follows.

5.508.2.2.1 Pressure relief valves. For vessels containing high-GWP refrigerant, a rupture disc shall be installed between the outlet of the vessel and the inlet of the pressure relief valve.

5.508.2.2.1.1 Pressure detection. A pressure gauge, pressure transducer or other device shall be installed in the space between the rupture disc and the relief valve inlet to indicate a disc rupture or discharge of the relief valve.

5.508.2.2.2 Access valves. Only Schrader access valves with a brass or steel body are permitted for use.

5.508.2.2.2.1 Valve caps. For systems with a refrigerant charge of 5 pounds or more, valve caps shall be brass or steel and not plastic.

5.508.2.2.2.2 Seal caps. If designed for it, the cap shall have a neoprene O-ring in place.

5.508.2.2.2.2.1 Chain tethers. Chain tethers to fit ovr the stem are required for valves designed to have seal caps.

Exception: Valves with seal caps that are not removed from the valve during stem operation.

5.508.2.3 Refrigerated service cases. Refrigerated service cases holding food products containing vinegar and salt shall have evaporator coils of corrosion-resistant material, such as stainless steel; or be coated to prevent corrosion from these substances.

5.508.2.3.1 Coil coating. Consideration shall be given to the heat transfer efficiency of coil coating to maximize energy efficiency.

5.508.2.4 Refrigerant receivers. Refrigerant receivers with capacities greater than 200 pounds shall be fitted with a device tha indicates the level of refrigerant in the receiver.

5.508.2.5 Pressure testing. The system shall be pressure tested during installation prior to evacuation and charging.

5.508.2.5.1 Minimum pressure. The system shall be charged with regulated dry nitrogen and appropriate tracer gas to bring system pressure up to 300 psig minimum.

5.508.2.5.2 Leaks. Check the system for leaks, repair any leaks, and retest for pressure using the same gauge.

5.508.2.5.3 Allowable pressure change. The system shall stand, unaltered, for 24 hours with no more than a +/- one pound pressure change from 300 psig, measured with the same gauge.

5.508.2.6 Evacuation. The system shall be evacuated after pressure testing and prior to charging.

5.508.2.6.1 First vacuum. Pull a system vacuum down to at least 1000 microns (+/- 50 microns), and hold for 30 minutes.

5.508.2.6.2 Second vacuum. Pull a second system vacuum to a minimum of 500 microns and hold for 30 minutes.

5.508.2.6.3 Third vacuum. Pull a third vacuum down to a minimum of 300 microns, and hold for 24 hours with a maximum drift of 100 microns over a 24-hour period.

CHAPTER 7
INSTALLER & SPECIAL INSPECTOR QUALIFICATIONS

702 QUALIFICATIONS

702.1 INSTALLER TRAINING. HVAC system installers shall be trained and certified in the proper installation of HVAC systems including ducts and equipment by a nationally or regionally recognized training or certification program. Uncertified persons may perform HVAC installations when under the direct supervision and responsibility of a person trained and certified to install HVAC systems or contractor licensed to install HVAC systems. Examples of acceptable HVAC training and certification programs include but are not limited to the following:

1. State certified apprenticeship programs.
2. Public utility training programs.
3. Training programs sponsored by trade, labor or statewide energy consulting or verification organizations.
4. Programs sponsored by manufacturing organizations.
5. Other programs acceptable to the enforcing agency.

702.2 SPECIAL INSPECTION [HCD]. When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition to other certifications or qualifications acceptable to the enforcing agency, the following certifications or education may be considered by the enforcing agency when evaluating the qualifications of a special inspector:

1. Certification by a national or regional green building program or standard publisher.
2. Certification by a statewide energy consulting or verification organization, such as HERS raters, building performance contractors, and home energy auditors.
3. Successful completion of a third party apprentice training program in the appropriate trade.
4. Other programs acceptable to the enforcing agency.

Notes:

1. Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.
2. HERS raters are special inspectors certified by the California Energy Commission (CEC) to rate homes in California according to the Home Energy Rating System (HERS).

[BSC-CG] When required by the enforcing agency, the owner or the responsible entity acting as the owner's agent shall employ one or more special inspectors to provide inspection or other duties necessary to substantiate compliance with this code. Special inspectors shall demonstrate competence to the satisfaction of the enforcing agency for the particular type of inspection or task to be performed. In addition, the special inspector shall have a certification from a recognized state, national or international association, as determined by the local agency. The area of certification shall be closely related to the primary job function, as determined by the local agency.

Note: Special inspectors shall be independent entities with no financial interest in the materials or the project they are inspecting for compliance with this code.

703 VERIFICATIONS

703.1 DOCUMENTATION. Documentation used to show compliance with this code shall include but is not limited to, construction documents, plans, specifications, builder or installer certification, inspection reports, or other methods acceptable to the enforcing agency which demonstrate substantial conformance. When specific documentation or special inspection is necessary to verify compliance, that method of compliance will be specified in the appropriate section or identified applicable checklist.

DISCLAIMER: *THIS DOCUMENT IS PROVIDED AND INTENDED TO BE USED AS A MEANS TO INDICATE AREAS OF COMPLIANCE WITH THE CALIFORNIA GREEN BUILDING STANDARDS (CALGREEN) CODE. DUE TO THE VARIABLES BETWEEN BUILDING DEPARTMENT JURISDICTIONS, THIS CHECKLIST IS TO BE USED ON AN INDIVIDUAL PROJECT BASIS AND MAY BE MODIFIED BY THE END USER TO MEET THOSE INDIVIDUAL NEEDS. THE END USER ASSUMES ALL RESPONSIBILITY ASSOCIATED WITH THE USE OF THIS DOCUMENT, INCLUDING VERIFICATION WITH THE FULL CODE.*

Consultant:

INTERIOR ARCHITECTS

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24CMGX.0025.000

Contents:
CAL GREEN STANDARDS

G007

SECTION 01 10 00 - SUMMARY

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 PROJECT REQUIREMENTS

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

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

1.4 PROJECT INFORMATION

A. Project Identification: Chipotle, Richmond Pkwy & I-80. Project Number 24CMGX.0025.000.
1. Project Location: 4200 Klose Way, Suite B, Richmond, CA 94806.

B. Owner: Site Centers.
1. Owner's Representative: Rob Gray. Site Centers.

C. Tenant: Chipotle Mexican Grill
1. Tenant's Representative: Design Manager - Scott Murdock, Construction Manager - Heather Maloney.

D. Architect: IA Interior Architects.
1. Architect's Representative: Jason Coats, AoR. 500 Sansome, 8th Floor, San Francisco, CA 94111. Phone: 415.434.3305.
2. Architect's Representative: Melissa Stonikinis, PoC. 1217 Sansom St. 8th Floor, Philadelphia, PA 19107. Phone: 267.439.4887.

E. Architect's Consultants: Architect has retained the following design professionals, who have prepared designated portions of the Contract Documents:
1. MEP Engineer: Bowman Engineering.
a. MEP Engineer's Representative: Brian Ehle. 4303 E Brighton Boulevard, #300, Denver, CO 80216. Phone: 720.853.0233.
2. Structural Engineer: Britt, Peters & Associates, Inc.
a. Structural Engineer's Representative: Garrett Johns. 999 Waterside Drive, Suite 2202, Norfolk, VA 23510. Phone: 225.235.4027.

F. Contractor:
TBD

1.5 TYPE OF CONTRACT

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

1.6 WORK COVERED BY CONTRACT DOCUMENTS

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

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

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

1.7 SCOPE OF WORK:

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

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

1.8 OTHER WORK

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

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

1.9 PERMITS

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

1.10 ACCESS TO SITE

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

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

1.11 COORDINATION WITH OCCUPANTS

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

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

1.12 OCCUPANCY REQUIREMENTS

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

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

1.13 WORK RESTRICTIONS

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

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

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

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

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

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

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

1.14 SPECIFICATION AND DRAWING CONVENTIONS

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

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

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

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

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

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

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 10 00

SECTION 01 25 00 - SUBSTITUTION PROCEDURES

PART 1 GENERAL

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

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

1.3 DEFINITIONS

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

1.4 ACTION SUBMITTALS

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

1.5 QUALITY ASSURANCE

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

1.6 COORDINATION WITH OTHER WORK

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

PART 2 PRODUCTS

2.1 SUBSTITUTIONS

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

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

C. Substitutions for Convenience: Not allowed.

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

2.2 SUBSTITUTION REQUEST PROCEDURES

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

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

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

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

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

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

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 25 00

SECTION 01 31 00 - PROJECT MANAGEMENT AND COORDINATION

PART 1 GENERAL

1.1 SUMMARY

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

1.2 INFORMATIONAL SUBMITTALS

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

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

1.3 ADMINISTRATIVE AND SUPERVISORY PERSONNEL

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

1.4 DIGITAL PROJECT MANAGEMENT

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

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

Consultant:

IA INTERIOR ARCHITECTS

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Contents:
ARCHITECTURAL SPECIFICATIONS

G010

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

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

1.5 DOCUMENTATION FROM ARCHITECT

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

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

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

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

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

1.6 PROJECT COORDINATION

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

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

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

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

1.7 COORDINATION OF THE WORK

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

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

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

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

1.8 REQUESTS FOR INFORMATION (RFIS)

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

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

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

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

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

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

1.9 PROJECT CONFERENCES AND MEETINGS

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

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

1.10 PROJECT TRACKING

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

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

1.11 PROJECT REPORTS

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

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION 01 31 00

Consultant:

INTERIOR ARCHITECTS

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Project No.

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Contents:

ARCHITECTURAL SPECIFICATIONS

G011

SECTION 01 33 00 - SUBMITTAL PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

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

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

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

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

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

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

A. MSDS: Material Safety Data Sheets.

1.3 ACTION SUBMITTALS

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

1.4 SUBMITTAL PROCEDURES

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

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

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

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

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

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

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

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

1.5 RESUBMISSION REQUIREMENTS

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

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

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

PART 2 PRODUCTS

2.1 ACTION SUBMITTALS

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

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

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

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

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

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

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

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

2.2 INFORMATIONAL SUBMITTALS

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

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

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

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

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

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

Consultant:

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5. Material Certificates: Affidavit on supplier's letterhead certifying that material complies with requirements in the Contract Documents.
6. Welding Certificates: Written certification that welding procedures and personnel comply with requirements in the Contract Documents. Include record of Welding Procedure Specification and Procedure Qualification Record on AWS forms, and names of firms and personnel certified.
7. Statement of Manufacturer's Review: Submit fully executed Statements of Manufacturer's Review on the form bound herein.

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

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

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

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

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

PART 3 EXECUTION

3.1 SUBMISSION REQUIREMENTS

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

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

3.2 CONTRACTOR'S RESPONSIBILITIES

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

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

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

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

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

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

3.3 ARCHITECT'S RESPONSIBILITIES

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

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

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

END OF SECTION 01 33 00

SECTION 01 40 00 - QUALITY REQUIREMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 DEFINITIONS

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

1.4 CONFLICTING REQUIREMENTS

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

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

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

1.5 DELEGATED DESIGN

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

1.6 INFORMATIONAL SUBMITTALS

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

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

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

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

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

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

G. Quality Control Testing and Inspection Agencies shall submit testing and inspection reports, including Agencies' analysis of results and recommendations, immediately following completion of the test or inspection.
1. Each report shall include complete detailed information pertaining to the test or inspection, including information required in each related technical specification section.

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2. Reports shall bear the name of qualified individual performing the inspection or test.
3. Distribution: Submit copies of reports directly to the following:
   a. Architect:.
   b. Structural Engineer.
   c. Owner.
   d. Contractor.
   e. Inspectors.

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

1.7 REPORTS AND DOCUMENTS

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

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

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

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

1.8 CONTRACTOR'S QUALITY-CONTROL PLAN

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

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

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

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

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

1.9 QUALITY ASSURANCE

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

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

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

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

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

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

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

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

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

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

1.10 QUALITY CONTROL

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

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

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

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

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

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

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

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

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

1.11 TESTING AND INSPECTION

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

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

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

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

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION

3.1 TEST AND INSPECTION LOG

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

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

3.2 DEFICIENT WORK

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

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

3.3 REPAIR AND PROTECTION

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

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

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

END OF SECTION 01 40 00

SECTION 01 50 00 - TEMPORARY FACILITIES AND CONTROLS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes requirements for temporary utilities, support facilities, and security and protection facilities.
1. Provide temporary facilities and controls required for construction activities except, if any, for facilities and controls indicated as existing or provided by Owner or others. Provide plan in advance for review and approval by Owner.

B. Related Requirements:
1. Section 01 10 00 Summary for work restrictions and limitations on utility interruptions.
2. Divisions 2 through 32 Sections for environmental (heat, ventilation, and humidity) requirements for products in those Sections.

1.3 DEFINITIONS

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

1.4 USE CHARGES

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

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

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

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

1.5 INFORMATIONAL SUBMITTALS

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

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

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

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

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

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

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

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

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

1.6 QUALITY ASSURANCE

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

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

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

1.7 PROJECT CONDITIONS

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

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

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

D. Temporary Use of Permanent Facilities: Contractor shall assume responsibility for the operation, maintenance and protection of each permanent service during its use as a construction facility prior to Owner's acceptance.
1. Contractor shall obtain prior written Owner's approval before using any permanent facility, system or service not specified on the Contract Documents. Owner's approval of Contractor request for use of permanent facilities, system or services shall be totally at Owner's discretion.
2. Contractor shall be responsible for operation, maintenance, protection and restoration of each permanent facility, system or service during its use as a construction facility before Substantial Completion, regardless of Owner's approval of use. If used by Contractor, Contractor shall return permanent facility, system and services to "like new" condition prior to turnover to Owner at Substantial Completion; this includes but is not limited to cleaning, replacement of filters, replacement of burnt out lamps and replacement of worn parts. Warranties for all permanent facilities, systems and services shall start at Substantial Completion regardless of any prior use by Contractor.

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

PART 2 PRODUCTS

2.1 MATERIALS

A. Chain-Link Fencing: Minimum 2-inch, 0.148-inch-thick, galvanized-steel, chain-link fabric fencing; minimum 8 feet high with galvanized-steel pipe posts; minimum 2-3/8-inch-OD line posts and 2-7/8-inch-OD corner and pull posts, with 1-5/8-inch-OD top and bottom rails, with galvanized barbed-wire top strand. Provide permanent bases for fence posts, temporary bases will not be permitted except where specifically approved by Owner for brief temporary use.

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

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

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

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

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

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

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

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

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

2.2 TEMPORARY FACILITIES

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

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

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

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

2.3 EQUIPMENT

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

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

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

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

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

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

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

PART 3 EXECUTION

3.1 INSTALLATION, GENERAL

A. Use qualified personnel for installation of temporary facilities.

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

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

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

Consultant:

INTERIOR ARCHITECTS

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ARCHITECTURAL SPECIFICATIONS

G014

3.2 TEMPORARY UTILITY INSTALLATION

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

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

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

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

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

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

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

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

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

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

3.3 SUPPORT FACILITIES INSTALLATION

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

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

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

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

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

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

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

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

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

3.4 SECURITY AND PROTECTION FACILITIES INSTALLATION

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

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

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

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

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

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

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

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

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

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

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

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

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

3.2 MOISTURE AND MOLD CONTROL

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

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

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

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

3.6 OPERATION, TERMINATION, AND REMOVAL

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

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

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

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

END OF SECTION 01 50 00

SECTION 01 60 00 - PRODUCT REQUIREMENTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

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

1.3 DEFINITIONS

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

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

1.4 ACTION SUBMITTALS

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

1.5 QUALITY ASSURANCE

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

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

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

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

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

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

1.6 PRODUCT DELIVERY, STORAGE, AND HANDLING

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

1.7 PRODUCT WARRANTIES

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

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

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

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

Consultant:

INTERIOR ARCHITECTS

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PART 2 PRODUCTS

2.1 PRODUCTS, GENERAL

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

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

2.2 PRODUCT SELECTION PROCEDURES

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

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

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

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

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

2.3 COMPARABLE PRODUCTS

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

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

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

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

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

2.4 PROOF OF COMPLIANCE

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

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

PART 3 EXECUTION

3.1 INSTALLATION OF PRODUCTS

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

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

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

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

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

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

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

H. Allow for expansion of materials and building movement.

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

3.2 PROTECTION OF INSTALLED WORK

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

END OF SECTION 01 60 00

SECTION 01 73 00 - EXECUTION

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

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

1.3 DEFINITIONS

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

1.4 INFORMATIONAL SUBMITTALS

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

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

C. Cutting and Patching Plan: Submit plan describing procedures at least 10 days prior to the time cutting and patching will be performed. Include the following information:
1. Extent: Describe reason for and extent of each occurrence of cutting and patching.
2. Procedures: Specifically describe how cutting and patching will be performed.
3. Changes to In-Place Construction: Describe anticipated results. Include changes to structural elements and operating components as well as changes in building appearance and other significant visual elements.
4. Products: List products to be used for patching and firms or entities that will perform patching work.
5. Trades: Indicate the firms or entities that will perform the cutting and patching.
6. Dates: Indicate when cutting and patching will be performed.
7. Structural Elements: Where cutting and patching involve modifying structural elements, including precast concrete, submit details and engineering calculations, generated by a professional engineer licensed to practice in the jurisdiction where the project is located, indicating structural integrity of proposed modification.
8. Effect on weatherproof integrity of the Work.
9. Utilities and Mechanical and Electrical Systems: List services and systems that cutting and patching procedures will disturb or affect. List services and systems that will be relocated and those that will be temporarily out of service. Indicate length of time permanent services and systems will be disrupted. Indicate utilities that will need to be relocated.
a. Include description of provisions for temporary services and systems during interruption of permanent services and systems.
10. Cost proposal when applicable.
11. Architect's Approval: Obtain Architect's approval of cutting and patching proposal before cutting and patching. Approval does not waive right to later require removal and replacement of unsatisfactory work.
12. Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during cutting and patching operations, by methods and with materials so as not to void or diminish required or existing warranties.

1.5 QUALITY ASSURANCE

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

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

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

PART 2 PRODUCTS

2.1 MATERIALS

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

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

PART 3 EXECUTION

3.1 EXAMINATION

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

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

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

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

3.2 PREPARATION

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

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

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

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

3.3 FIELD ENGINEERING AND LAYOUT

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

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

Consultant:

INTERIOR ARCHITECTS

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

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

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

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

3.4 INSTALLATION

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

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

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

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

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

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

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

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

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

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

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

3.5 SELECTIVE DEMOLITION

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

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

3.6 CUTTING AND PATCHING

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

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

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

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

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

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

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

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

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

3.7 PROGRESS CLEANING

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

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

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

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

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

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

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

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

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

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

3.8 STARTING AND ADJUSTING

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

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

Replace damaged and malfunctioning controls and equipment.

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

3.9 PROTECTION OF INSTALLED CONSTRUCTION

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

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

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

3.10 CORRECTION OF THE WORK

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

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

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

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

END OF SECTION 01 73 00

SECTION 01 74 19 - CONSTRUCTION WASTE MANAGEMENT AND DISPOSAL

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 DEFINITIONS

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

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

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

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

E. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
F. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

1.4 MATERIALS OWNERSHIP

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

1.5 ACTION SUBMITTALS

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

1.6 INFORMATIONAL SUBMITTALS

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

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

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

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

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

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

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

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

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

1.7 QUALITY ASSURANCE

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

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

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

1.8 WASTE MANAGEMENT PLAN

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

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

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

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

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

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

PART 3 EXECUTION

3.1 PLAN IMPLEMENTATION

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

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

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

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

3.2 RECYCLING DEMOLITION AND CONSTRUCTION WASTE, GENERAL

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

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

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

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

3.3 RECYCLING CONSTRUCTION WASTE

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

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

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

D. Paint: Seal containers and store by type.

3.4 DISPOSAL OF WASTE

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

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

C. Burning: Do not burn waste materials.

END OF SECTION 01 74 19

SECTION 01 77 00 - CLOSEOUT PROCEDURES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

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

1.3 ACTION SUBMITTALS

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

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

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

1.4 CLOSEOUT SUBMITTALS

A. Certificates of Release: From authorities having jurisdiction.

B. Certificate of Insurance: For continuing coverage.

C. Field Report: For pest control inspection.

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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Contents:

ARCHITECTURAL SPECIFICATIONS

G017

1.5 MAINTENANCE MATERIAL SUBMITTALS

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

1.6 SUBSTANTIAL COMPLETION PROCEDURES

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

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

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

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

1.7 FINAL COMPLETION PROCEDURES

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

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

1.8 LIST OF INCOMPLETE ITEMS (PUNCH LIST)

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

1.9 SUBMITTAL OF PROJECT WARRANTIES

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

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

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

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

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

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

PART 2 PRODUCTS

2.1 MATERIALS

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

PART 3 EXECUTION

3.1 FINAL CLEANING

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

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

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

3.2 REPAIR OF THE WORK

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

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

END OF SECTION 01 77 00

DIVISION 3 - CONCRETE

SECTION 03 30 00 - 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.

END OF SECTION 03 30 00

SECTION 03 35 43 - POLISHED CONCRETE FINISHING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Polished concrete finishing.
2. Concrete staining.
3. Concrete scoring.
4. Concrete for polished concrete, including concrete materials, mixture design, placement procedures, initial finishing, and curing is specified in Section 03 30 00 - Cast-in-Place Concrete.
5. Concrete sealing.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
1. Before submitting design mixtures, review concrete design mixture and examine procedures for ensuring quality of concrete materials. Require representatives of each entity directly concerned with polished concrete to attend, including the following:
   a. Contractor's superintendent.
   b. Independent testing agency responsible for concrete design mixtures.
   c. Ready-mix concrete manufacturer.
   d. Cast-in-place concrete subcontractor.
   e. Polished concrete finishing Subcontractor and supervisor
   f. Owner.
2. Review cold- and hot-weather concreting procedures, curing procedures, construction joints, concrete repair procedures, concrete finishing, and protection of polished concrete.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Polishing Schedule: Submit plan showing polished concrete surfaces and schedule of polishing operations for each area of polished concrete before start of polishing operations. Include locations of all joints, including construction joints.

C. Samples for Verification: For each type of exposed color.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer. Manufacturer's certification installer is a certified applicator, familiar with manufacturer's installation procedures and requirements for specified concrete work and finish.

B. Material Certificates: For each of the following, signed by manufacturers:
1. Dynamic Coefficient of Friction (DCOF): For each type of product: Certification shall include statement that products to be used on projects are appropriate for intended use, meet or exceed reference standards and the requirements of this specification, noting DCOF value for each product to be used.
2. Repair materials.
3. Stain materials.
4. Liquid floor treatments.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: Provide a letter of certification from special concrete finish manufacturer stating that installer is certified applicator and is familiar with proper procedures and installation requirements required by the manufacturer.

B. Protection: Contractor shall provide all necessary materials, means, methods and procedures aceptable 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.

C. Field Sample Panels: After approval of verification sample and before casting concrete, produce field sample panels to demonstrate the approved range of selections made under Sample submittals. Produce a minimum of three sets of full-scale panels, approximately 48 by 48 inches minimum, to demonstrate the expected range of finish, color, and appearance variations.
1. Locate panels as indicated or, if not indicated, as directed by Architect.
2. Maintain field sample panels during construction in an undisturbed condition as a standard for judging the completed Work.
3. Demolish and remove field sample panels when directed.

D. 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 and Water Spray
   c. ASTM C805, Impact Strength
2. American Concrete Institute
   a. ACI 302, 1R-89, Guide for Concrete Floor and Slab Construction

E. Mockups: Before casting concrete, build mockups to verify selections made under Sample submittals and to demonstrate typical joints, surface finish, tolerances, and standard of workmanship. Build mockups to comply with the following requirements, using materials indicated for the completed Work:
1. Build mockups in the location and of the size indicated or, if not indicated, as directed by Architect.
2. Demonstrate curing, finishing, and protecting of polished concrete.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.7 FIELD CONDITIONS

A. Traffic Control: Maintain access for vehicular and pedestrian traffic as required for other construction activities.

B. 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.
1. Concret must have an average Floor Flatness rating of at least 40.
2. Concrete must have an average Floor Levelness rating of at least 40.
3. 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 prefered. No concrete sealer is necessary.
4. Application of RetroPlate shall take place prior to installation of equipment, thus providing a complete, uninhibited concrete slab for application.

C. 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.

D. Close finished floor areas to traffice during floor finish application and after application for time periof directed by the floor finish manufacturer.

E. The completed RetroPlated slab will be covered to prevent damage by the other trades during store completion.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

B. Dynamic Coefficient of Friction (DCOF): Provide products with a minimum value of .42 as determined by testing identical products by DCOF AcuTest Method per ANSI A137.1 and AA326.3, 2017 editions complying fully to CPAA adopted standards for up to 10 years.

2.2 HARDENING/SEALING AGENT

RetroPlate 99 manufactured by Advance Floor Products Inc. (801) 812.3420. Website: HYPERLINK "http://www.retroplatesystem.com/"www.retroplatesystem.com.
Manufacturer's Representative: Contact Scott Maxfield at RetroPlate for a list of Certified Applicators (888)942-3144 scott.maxfield@retroplatesystem.com

A. RetroGuard Stain Inhibitor.

C. Joint Filler: CreteFill Pro 75. Two component 100 percent solids non-staining Polyurea Elastomer.

D. Spall Repair: Multiple minor surface defects and irregularities: Crete Fill Spall Repair: High Strength hybrid urethane, two part 100 percent solids.

E. Coefficient of friction for Retroguard finish shall not be lower than 0.42.

F. Certified Applicators: Contact (888) 942.3144.

2.3 STAIN MATERIALS

A. Basis-of-Design Products: Terrastain, (706) 237.6066. "Moss-1008", an acid-free concrete stain.

B. Penetrating Stain: Water-based, acrylic latex, penetrating stain with colorfast pigments.

2.4 LIQUID FLOOR TREATMENTS

A. Penetrating Liquid Floor Treatments for Polished Concrete Finish: Clear, waterborne solution of inorganic silicate or siliconate materials and proprietary components; odorless; that penetrates, hardens, and is suitable for polished concrete surfaces.

B. Concrete Stabilizer: Factory-prepared and dry-packaged mixture of chemically reactive concrete stabilizer formulated to increase concrete density and hardness so that it can be polished to a high gloss.

C. Performance Criteria:
1. Abrasion Resistance: ASTM C779/C779M – Up to 400% increase in abrasion resistance.
2. Impact Strength: ASTM C805/C805M – 21% increase impact strength.
3. Ultra Violet Light and Water Spray: ASTM G23-81 – No adverse effect to ultra violet and water spray.
4. Co-efficient of Friction: ASTM 1028 – all levels of finish (up to 800 grit) exceed OSHA and ADA recommendations.
5. Reflectivity: 30% increase in reflectivity.

D. Accessory Materials:
1. Neutralizing Agent: Tri-sodium phosphate.
2. Water: Potable
3. Coating: Manufacturer's recommended protective finish coating.
4. Finish Sealer: Manufacturer's recommended product.

PART 3 EXECUTION

3.1 PREPARATION

A. 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.

B. Verify that base slabe meets finish and surface profile requiremetns in Division 03 and Project conditions above.

C. Prior to application, verify that floor surfaces are free of construction latents.

3.2 POLISHING INSTALLATION

A. Application: The following RetroPlate process will be followed as listed below. A concrete grinding machine must be used. The process is as follows:
1. Floors should be started using 50, 80, or 100 grid 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 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 coma
13. The same process will be used for new floor as well as rehabilitation floors. Floor prep for the rehabilitation 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 brunishing 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.

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

C. 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 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.
6. Co-efficition of Friction: ASTM 1028 - all levels of finish exceed OSHA and ADA recommendations.

3.3 STAINING

A. Newly placed concrete shall be at least 28 days old before staining.

B. Prepare surfaces according to manufacturer's written instructions and as follows:
1. Clean concrete thoroughly by scraping, applying solvents or stripping agents, sweeping and pressure washing, or scrubbing with a rotary floor machine and detergents recommended by stain manufacturer. Rinse until water is clear and allow surface to dry.
   a. Do not use acidic solutions to clean surfaces.
2. New concrete floors should be allowed to cure for two or more weeks.
3. The surface temperature of the concrete should be between 45 and 85 degrees Fahrenheit.
4. Equipment: " Blastrac" by Wheelabrator Corp., (800) 544.4144, or approved equal electric powered portable units with self-contained dust colleciton system. Provide unit size and shot media suitable for conditions and proposed stain finish materials as approved by the Tenant's Construction Manager.
   a. Perform penetration tests recommended by the stain manufacturer before initial stain application.
1. Application for Large spaces: Apply Terrastain with a pump up garden-type sprayer using a light, wide spray setting. Move the spray want in random patterns to avoid repetitive overlapping lines. Apply until the surface is wet, but do not allow puddles to form. Lightly blot up puddles or drips with a clean, absorbent cloth or sponge.
2. Application for Small spaces: Apply Terrastain with brush, rag, mop or high quality paint roller (3/8 inch to 1/2 inch nap). Use a clean absorbent cloth or sponge to blot roller marks or drips.
3. Neutralize concrete surfaces and rinse until water is clear. Test surface for residue with clean white cloth. Test surface according to ASTM F710 to ensure pH is between 7 and 8.

C. Scoring: Score decorative jointing in concrete surfaces 1/16 inch deep with diamond blades to match pattern indicated. Rinse until water is clear. Score [after] [before] staining.
1. Joint Width: 3/8 inch.

D. Allow concrete surface to dry before applying stain. Verify readiness of concrete to receive stain according to ASTM D4263 by tightly taping 18-by-18-inch (450-by-450-mm), 4-mil- (0.1-mm-) thick polyethylene sheet to a representative area of concrete surface. Apply stain only if no evidence of moisture has accumulated under sheet after 16 hours.

E. Reactive Stain: Apply reactive stain to concrete surfaces according to manufacturer's written instructions and as follows:
1. Apply stain by uncolored bristle brush, roller, or high-volume, low-pressure sprayer and immediately scrub into concrete surface with uncolored, acid-resistant nylon-bristle brushes in continuous, circular motion. Do not spread stain after fizzing stops. Allow to dry four hours and repeat application of stain in sufficient quantity to obtain color consistent with approved mockup.
2. Remove stain residue after four hours by wet scrubbing with commercial-grade detergent recommended by stain manufacturer. Rinse until water is clear. Control, collect, and legally dispose of runoff.

F. Penetrating Stain: Apply penetrating stain to concrete surfaces according to manufacturer's written instructions and as follows:
1. Apply first coat of stain to dry, clean surfaces by airless sprayer or by high-volume, low- pressure sprayer.
2. Allow to dry four hours and repeat application of stain in sufficient quantity to obtain color consistent with approved mockup.
3. Rinse until water is clear. Control, collect, and legally dispose of runoff.

END OF SECTION 03 35 43

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ARCHITECTURAL SPECIFICATIONS

G018

SECTION 05 50 00 - METAL FABRICATIONS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Miscellaneous steel framing and supports.
2. Slotted channel framing.
3. Steel shapes.
4. Stainless steel wall.
5. Diamond plate wall and floor.
6. Miscellaneous steel trim including steel angle corner guards and steel edgings.
7. Loose bearing and leveling plates for applications where they are not specified in other Sections.

B. Products furnished, but not installed, under this Section include the following:
1. Loose steel lintels.
2. Anchor bolts, steel pipe sleeves, slotted-channel inserts, and wedge-type inserts indicated to be cast into concrete or built into unit masonry.
3. Steel weld plates and angles for casting into concrete for applications where they are not specified in other Sections.

1.3 COORDINATION

A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written instructions to ensure that shop primers and topcoats are compatible with one another.

B. Coordinate installation of metal fabrications that are anchored to or that receive other work.
Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors, that are to be embedded in concrete or masonry. Deliver such items to Project site in time for installation.

1.4 ACTION SUBMITTALS

A. Product Data: For the following:
1. Nonslip aggregates and nonslip-aggregate surface finishes.
2. Fasteners.
3. Shop primers.
4. Shrinkage-resisting grout.
5. Slotted channel framing.

B. Shop Drawings: Show fabrication and installation details. Include plans, elevations, sections, and details of metal fabrications and their connections. Show anchorage and accessory items. Provide Shop Drawings for the following:
1. Miscellaneous steel framing and supports.
2. Steel shapes.
3. Stainless steel wall.
4. Diamond plate wall and floor.
5. Miscellaneous steel trim including steel angle corner guards and steel edgings.
6. Loose steel lintels.

C. Samples for Verification: For each type and finish of extruded nosing and tread.

D. Delegated-Design Submittal: For ladders and alternating tread devices, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For professional engineer's experience with providing delegated-design engineering services of the kind indicated, including documentation that engineer is licensed in the jurisdiction in which Project is located.

B. Welding certificates.

C. Research Reports: For post-installed anchors.

1.6 QUALITY ASSURANCE

A. Welding Qualifications: Qualify procedures and personnel in accordance with the following:
1. AWS D1.1/D1.1M, "Structural Welding Code - Steel."
2. AWS D1.2/D1.2M, "Structural Welding Code - Aluminum."
3. AWS D1.6/D1.6M, "Structural Welding Code - Stainless Steel."

1.7 FIELD CONDITIONS

A. Field Measurements: Verify actual locations of walls, floor slabs, decks, and other construction contiguous with metal fabrications by field measurements before fabrication.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Delegated Design: Engage a qualified professional engineer, as defined in Section 01 40 00 - Quality Requirements, to design ladders and miscellaneous framing and supports.

B. Structural Performance of Ladders: Ladders shall withstand the effects of loads and stresses within limits and under conditions specified in ANSI A14.3.

2.2 METALS

A. Metal Surfaces, General: Provide materials with smooth, flat surfaces unless otherwise indicated. For metal fabrications exposed to view in the completed Work, provide materials without seam marks, roller marks, rolled trade names, or blemishes.

B. Steel Plates, Shapes, and Bars: ASTM A36/A36M.

C. Stainless Steel Sheet, Strip, and Plate: ASTM A240/A240M or ASTM A666, Type 304. No. 4 finish.

D. Stainless Steel Bars and Shapes: ASTM A276/A276M, Type 304. No. 4 finish.

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

F. Rolled-Steel Floor Plate: ASTM A786/A786M, rolled from plate complying with ASTM A36/A36M or ASTM A283/A283M, Grade C or D.

G. Steel Tubing: ASTM A500/A500M, cold-formed steel tubing.

H. Steel Pipe: ASTM A53/A53M, Standard Weight (Schedule 40) unless otherwise indicated.

I. Slotted Channel Framing: Cold-formed metal box channels (struts) complying with MFMA-4.

J. Aluminum Plate and Sheet: ASTM B209 (ASTM B209M), Alloy 6061-T6.

K. Aluminum Extrusions: ASTM B221 (ASTM B221M), Alloy 6063-T6.

L. Aluminum-Alloy Rolled Tread Plate:ASTM B632/B632M, Alloy 6061-T6.

M. Aluminum Castings: ASTM B26/B26M, Alloy 443.0-F.

2.3 FASTENERS

A. General: Select fasteners for type, grade, and class required.

B. Exposed Fasteners:
1. Diamond Plate: #8 x 1-inch bevel headed stainless steel screw.
a. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.
2. Flat Metal Panels: Provide 18-inch vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly.
3. Exposed fasteners shall remain unpainted in natural factory supplied finish.
4. Corner connector angles shall be 2 1/2-inch x 2 1/2-inch x 1/4-inch steel L angle.

C. Steel Bolts and Nuts: Regular hexagon-head bolts, ASTM A307, Grade A (ASTM F568M, Property Class 4.6); with hex nuts, ASTM A563 (ASTM A563M); and, where indicated, flat washers.

D. Stainless Steel Bolts and Nuts: Regular hexagon-head annealed stainless steel bolts, ASTM F593 (ASTM F738M); with hex nuts,ASTM F594 (ASTM F836M); and, where indicated, flat washers; Alloy Group 1 (A1).

E. Anchor Bolts: ASTM F1554, Grade 36, of dimensions indicated; with nuts, ASTM A563 (ASTM A563M); and, where indicated, flat washers.
1. Hot-dip galvanize or provide mechanically deposited, zinc coating where item being fastened is indicated to be galvanized.

F. Cast-in-Place Anchors in Concrete: Either threaded or wedge type unless otherwise indicated; galvanized ferrous castings, either ASTM A47/A47M malleable iron or ASTM A27/A27M cast steel. Provide bolts, washers, and shims as needed, all hot-dip galvanized per ASTM F2329/F2329M.

G. Post-Installed Anchors: Torque-controlled expansion anchors.
1. Material for Interior Locations: Carbon-steel components zinc plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.

H. Slotted-Channel Inserts: Cold-formed, hot-dip galvanized-steel box channels (struts) complying with MFMA-4, 1-5/8 inches by 7/8 inches by length indicated with anchor straps or studs not less than 3 inches long at not more than 8 inches o.c. Provide with temporary filler and tee- head bolts, complete with washers and nuts, all zinc-plated to comply with ASTM B633, Class Fe/Zn 5, as needed for fastening to inserts.

2.4 MISCELLANEOUS MATERIALS

A. Universal Shop Primer: Fast-curing, lead- and chromate-free, universal modified-alkyd primer complying with MPI#79 and compatible with topcoat. Use primer containing pigments that make it easily distinguishable from zinc-rich primer.

B. Epoxy Zinc-Rich Primer: Complying with MPI#20 and compatible with topcoat.

C. Shop Primer for Galvanized Steel: Primer formulated for exterior use over zinc-coated metal and compatible with finish paint systems indicated.

D. Galvanizing Repair Paint: High-zinc-dust-content paint complying with SSPC-Paint 20 and compatible with paints specified to be used over it.

E. Bituminous Paint: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

F. Shrinkage-Resistant Grout: Factory-packaged, nonmetallic, nonstaining, noncorrosive, nongaseous grout complying with ASTM C1107/C1107M. Provide grout specifically recommended by manufacturer for interior and exterior applications.

G. Concrete: Comply with requirements in Section 03 30 00 - Cast-in-Place Concrete for normal- weight, air-entrained concrete with a minimum 28-day compressive strength of 3000 psi.

2.5 FABRICATION, GENERAL

A. Shop Assembly: Preassemble items in the shop to greatest extent possible. Disassemble units only as necessary for shipping and handling limitations. Use connections that maintain structural value of joined pieces. Clearly mark units for reassembly and coordinated installation.

B. Cut, drill, and punch metals cleanly and accurately. Remove burrs and ease edges to a radius of approximately 1/32 inch unless otherwise indicated. Remove sharp or rough areas on exposed surfaces.

C. Form bent-metal corners to smallest radius possible without causing grain separation or otherwise impairing work.

D. Form exposed work with accurate angles and surfaces and straight edges.

E. Weld corners and seams continuously to comply with the following:
1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

F. Form exposed connections with hairline joints, flush and smooth, using concealed fasteners or welds where possible. Where exposed fasteners are required, use Phillips flat-head (countersunk) fasteners unless otherwise indicated. Locate joints where least conspicuous.

G. Fabricate seams and other connections that are exposed to weather in a manner to exclude water. Provide weep holes where water may accumulate.

H. Cut, reinforce, drill, and tap metal fabrications as indicated to receive finish hardware, screws, and similar items.

I. Provide for anchorage of type indicated; coordinate with supporting structure. Space anchoring devices to secure metal fabrications rigidly in place and to support indicated loads.

J. Where units are indicated to be cast into concrete or built into masonry, equip with integrally welded steel strap anchors, 1/8 inches by 1-1/2 inches, with a minimum 6 inch embedment and 2 inch hook, not less than 8 inches from ends and corners of units and 24 inches o.c., unless otherwise indicated.

2.6 MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Provide steel framing and supports not specified in other Sections as needed to complete the Work.

B. Fabricate units from steel shapes, plates, and bars of welded construction unless otherwise indicated. Fabricate to sizes, shapes, and profiles indicated and as necessary to receive adjacent construction.
1. Fabricate units from slotted channel framing where indicated.
2. Furnish inserts for units installed after concrete is placed.

C. Fabricate supports for operable partitions from continuous steel beams of sizes indicated with attached bearing plates, anchors, and braces as indicated. Drill or punch bottom flanges of beams to receive partition track hanger rods; locate holes where indicated on operable partition Shop Drawings.

D. Galvanize miscellaneous framing and supports where indicated.

2.7 STAINLESS STEEL:

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

2.8 DIAMOND PLATE:

A. Wall: Mount over plywood substrate w/ flush exposed fasteners.

B. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.

C. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.

2.9 MISCELLANEOUS STEEL TRIM

A. Unless otherwise indicated, fabricate units from steel shapes, plates, and bars of profiles shown with continuously welded joints and smooth exposed edges. Miter corners and use concealed field splices where possible.

B. Provide cutouts, fittings, and anchorages as needed to coordinate assembly and installation with other work.
1. Provide with integrally welded steel strap anchors for embedding in concrete or masonry construction.

2.10 LOOSE BEARING AND LEVELING PLATES

A. Provide loose bearing and leveling plates for steel items bearing on masonry or concrete construction. Drill plates to receive anchor bolts and for grouting.

2.11 LOOSE STEEL LINTELS

A. Fabricate loose steel lintels from steel angles and shapes of size indicated for openings and recesses in masonry walls and partitions at locations indicated. Fabricate in single lengths for each opening unless otherwise indicated. Weld adjoining members together to form a single unit where indicated.

B. Size loose lintels to provide bearing length at each side of openings equal to 1/12 of clear span, but not less than 8 inches unless otherwise indicated.

2.12 STEEL WELD PLATES AND ANGLES

A. Provide steel weld plates and angles not specified in other Sections, for items supported from concrete construction as needed to complete the Work. Provide each unit with no fewer than two integrally welded steel strap anchors for embedding in concrete.

2.13 GENERAL FINISH REQUIREMENTS

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Finish metal fabrications after assembly.

C. Finish exposed surfaces to remove tool and die marks and stretch lines, and to blend into surrounding surface.

2.14 STEEL AND IRON FINISHES

A. Galvanizing: Hot-dip galvanize steel exposed to the elements, weather or corrosive environments and other steel indicated to be galvanized to comply with ASTM A153/A153M for steel and iron hardware and with ASTM A123/A123M for other steel and iron products.
1. For galvanized items to be painted, do not quench or apply post galvanizing treatments that might interfere with paint adhesion.

B. Preparation for Shop Priming Galvanized Items: After galvanizing, thoroughly clean galvanized surfaces of grease, dirt, oil, flux, and other foreign matter, and treat with metallic phosphate process.nac

C. Shop prime iron and steel items not indicated to be galvanized unless they are to be embedded in concrete, sprayed-on fireproofing, or masonry, or unless otherwise indicated.

D. Preparation for Shop Priming: Prepare surfaces to comply with requirements indicated below:
1. Interior Items (SSPC Zone 1A): SSPC-SP 7, "Brush Off Blast Cleaning."
2. Items Indicated to Receive Zinc-Rich Primer: SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
3. Galvanized-Steel Items: SSPC-Paint 16, "Brush-off Blast Cleaning of Coated and Uncoated Galvanized Steel, Stainless Steels, and Non-Ferrous Metals."

E. Shop Priming: Apply shop primer to comply with SSPC-PA 1, "Paint Application Specification No. 1: Shop, Field, and Maintenance Painting of Steel," for shop painting.
1. Stripe paint corners, crevices, bolts, welds, and sharp edges.

2.15 ALUMINUM FINISHES

A. As-Fabricated Finish: AA-M12.

B. Clear Anodic Finish: AAMA 611, Class I, AA-M12C22A41.

PART 3 EXECUTION

3.1 INSTALLATION, GENERAL

A. Cutting, Fitting, and Placement: Perform cutting, drilling, and fitting required for installing metal fabrications. Set metal fabrications accurately in location, alignment, and elevation; with edges and surfaces level, plumb, true, and free of rack; and measured from established lines and levels.

B. Fit exposed connections accurately together to form hairline joints. Weld connections that are not to be left as exposed joints but cannot be shop welded because of shipping size limitations. Do not weld, cut, or abrade surfaces of exterior units that have been hot-dip galvanized after fabrication and are for bolted or screwed field connections.

C. Field Welding: Comply with the following requirements:

1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.
2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. At exposed connections, finish exposed welds and surfaces smooth and blended so no roughness shows after finishing and contour of welded surface matches that of adjacent surface.

D. Fastening to In-Place Construction: Provide anchorage devices and fasteners where metal fabrications are required to be fastened to in-place construction. Provide threaded fasteners for use with concrete and masonry inserts, toggle bolts, through bolts, lag screws, wood screws, and other connectors.

E. Provide temporary bracing or anchors in formwork for items that are to be built into concrete, masonry, or similar construction.

F. Corrosion Protection: Coat concealed surfaces of aluminum that come into contact with grout, concrete, masonry, wood, or dissimilar metals with the following:
1. Cast Aluminum: Heavy coat of bituminous paint.
2. Extruded Aluminum: Two coats of clear lacquer.

3.2 INSTALLATION OF MISCELLANEOUS FRAMING AND SUPPORTS

A. General: Install framing and supports to comply with requirements of items being supported, including manufacturers' written instructions and requirements indicated on Shop Drawings.

B. Anchor supports for operable partitions securely to, and rigidly brace from, building structure.

3.3 INSTALLATION OF BEARING AND LEVELING PLATES

A. Clean concrete and masonry bearing surfaces of bond-reducing materials, and roughen to improve bond to surfaces. Clean bottom surface of plates.

B. Set bearing and leveling plates on wedges, shims, or leveling nuts. After bearing members have been positioned and plumbed, tighten anchor bolts. Do not remove wedges or shims but, if protruding, cut off flush with edge of bearing plate before packing with shrinkage-resistant grout. Pack grout solidly between bearing surfaces and plates to ensure that no voids remain.

3.4 REPAIRS

A. Touchup Painting: Immediately after erection, clean field welds, bolted connections, and abraded areas. Paint uncoated and abraded areas with same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
1. Apply by brush or spray to provide a minimum 2.0 mil dry film thickness.

B. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing to comply with ASTM A780/A780M.

END OF SECTION 05 50 00

SECTION 06 10 00 - ROUGH CARPENTRY

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Framing with engineered wood products.
2. Shear wall panels.
3. Wood blocking, cants, and nailers.
4. Wood furring and grounds.
5. Utility shelving.
6. Plywood backing panels.

1.3 DEFINITIONS

A. Boards or Strips: Lumber of less than 2 inches nominal size in least dimension.

B. Dimension Lumber: Lumber of 2 inches nominal size or greater but less than 5 inches nominal size in least dimension.

C. Exposed Framing: Framing not concealed by other construction.

D. OSB: Oriented strand board.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of process and factory-fabricated product. Indicate component materials and dimensions and include construction and application details.
1. Include data for wood-preservative treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Indicate type of preservative used and net amount of preservative retained.
2. Include data for fire-retardant treatment from chemical treatment manufacturer and certification by treating plant that treated materials comply with requirements. Include physical properties of treated materials based on testing by a qualified independent testing agency.
3. For fire-retardant treatments, include physical properties of treated lumber both before and after exposure to elevated temperatures, based on testing by a qualified independent testing agency according to ASTM D5664.
4. For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

B. Fastener Patterns: Full-size templates for fasteners in exposed framing.

1.5 INFORMATIONAL SUBMITTALS

A. Material Certificates: For dimension lumber specified to comply with minimum allowable unit stresses. Indicate species and grade selected for each use and design values approved by the ALSC Board of Review.

B. Evaluation Reports: For the following, from ICC-ES:
1. Wood-preservative-treated wood.
2. Fire-retardant-treated wood.
3. Engineered wood products.
4. Shear panels.
5. Power-driven fasteners.
6. Post-installed anchors.
7. Metal framing anchors.

1.6 QUALITY ASSURANCE

A. Testing Agency Qualifications: For testing agency providing classification marking for fire- retardant treated material, an inspection agency acceptable to authorities having jurisdiction that periodically performs inspections to verify that the material bearing the classification marking is representative of the material tested.

B. 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."

1.7 DELIVERY, STORAGE, AND HANDLING

A. Stack wood products flat with spacers beneath and between each bundle to provide air circulation. Protect wood products from weather by covering with waterproof sheeting, securely anchored. Provide for air circulation around stacks and under coverings.

PART 2 PRODUCTS

2.1 WOOD PRODUCTS, GENERAL

A. Lumber: DOC PS 20 and applicable rules of grading agencies indicated. If no grading agency is indicated, comply with the applicable rules of any rules-writing agency certified by the ALSC Board of Review. Grade lumber by an agency certified by the ALSC Board of Review to inspect and grade lumber under the rules indicated.
1. Factory mark each piece of lumber with grade stamp of grading agency.
2. Dress lumber, S4S, unless otherwise indicated.
3. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
4. Provide preservative treated lumber, where indicated.

B. Maximum Moisture Content of Lumber: 15 percent for 2 inch nominal thickness or less, unless otherwise indicated.

C. Engineered Wood Products: Acceptable to authorities having jurisdiction and for which current model code research or evaluation reports exist that show compliance with building code in effect for Project.
1. Allowable design stresses, as published by manufacturer, shall meet or exceed those indicated. Manufacturer's published values shall be determined from empirical data or by rational engineering analysis and demonstrated by comprehensive testing performed by a qualified independent testing agency.

2.2 WOOD-PRESERVATIVE-TREATED LUMBER

A. Preservative Treatment by Pressure Process: AWPA U1; Use Category UC2 for interior construction not in contact with ground, Use Category UC3b for exterior construction not in contact with ground, and Use Category UC4a for items in contact with ground.
1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
2. Preservative Chemicals: Acceptable to authorities having jurisdiction and containing no arsenic or chromium. Do not use inorganic boron (SBX) for sill plates.
3. For exposed items indicated to receive a stained or natural finish, chemical formulations shall not require incising, contain colorants, bleed through, or otherwise adversely affect finishes.
4. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.

B. Kiln-dry lumber after treatment to a maximum moisture content of 15 percent. Do not use material that is warped or that does not comply with requirements for untreated material.

C. Mark lumber with treatment quality mark of an inspection agency approved by the ALSC Board of Review.

D. Application: Treat items indicated on Drawings, and the following:
1. Wood cants, nailers, curbs, equipment support bases, blocking, stripping, and similar members in connection with roofing, flashing, vapor barriers, and waterproofing.
2. Wood sills, sleepers, blocking, furring, stripping, and similar concealed members in contact with masonry or concrete.
3. Wood framing and furring attached directly to the interior of below-grade exterior masonry or concrete walls.
4. Wood floor plates that are installed over concrete slabs-on-grade.

2.3 FIRE-RETARDANT-TREATED MATERIALS

A. General: Where fire-retardant-treated materials are indicated, materials shall comply with requirements in this article, that are acceptable to authorities having jurisdiction, and with fire- test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.

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B. Fire-Retardant-Treated Lumber and Plywood by Pressure Process: Products with a flame- spread index of 25 or less when tested according to ASTM E84, and with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
1. Treatment shall not promote corrosion of metal fasteners.
2. Interior Type A: Treated materials shall have a moisture content of 28 percent or less when tested according to ASTM D3201/D3201M at 92 percent relative humidity. Use where exterior type is not indicated.
3. Interior Type A: Treated materials shall meet 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.
4. Design Value Adjustment Factors: Treated lumber shall be tested according to ASTM D5664 and design value adjustment factors shall be calculated according to ASTM D6841.

C. Kiln-dry lumber after treatment to maximum moisture content of 15 percent. Kiln-dry plywood after treatment to maximum moisture content of 15 percent.

D. Identify fire-retardant-treated wood with appropriate classification marking of qualified testing agency.

2.4 DIMENSION LUMBER FRAMING

A. Non-Load-Bearing Interior Partitions: Construction or No. 2 grade.

2.5 MISCELLANEOUS LUMBER

A. General: Provide miscellaneous lumber indicated and lumber for support or attachment of other construction, including the following:
1. Blocking.
2. Nailers.
3. Furring.
4. Grounds.
5. Utility shelving.

B. Dimension Lumber Items: Construction or No. 2 grade lumber of any species.

C. For blocking not used for attachment of other construction, Utility, Stud, or No. 3 grade lumber of any species may be used provided that it is cut and selected to eliminate defects that will interfere with its attachment and purpose.

D. For blocking and nailers used for attachment of other construction, select and cut lumber to eliminate knots and other defects that will interfere with attachment of other work.

E. For furring strips for installing plywood or hardboard paneling, select boards with no knots capable of producing bent-over nails and damage to paneling.

2.6 PLYWOOD

A. Factory grade-marked, complying with PS-1, square edge, 5/8-inch 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.

2.7 PLYWOOD BACKING PANELS

A. Equipment Backing Panels: Plywood, DOC PS 1, Exposure 1, C-D Plugged, fire-retardant treated, in thickness indicated or, if not indicated, not less than 1/2 inch nominal thickness.

2.8 ORIENTED STRAND BOARD (OSB)

A. Factory grade-marked, complying with PS-2, square edge, 5/8" thick

2.9 FASTENERS

A. General: Fasteners shall be of size and type indicated and shall comply with requirements specified in this article for material and manufacture.
1. Where rough carpentry is exposed to weather, in ground contact, pressure-preservative treated, or in area of high relative humidity, provide fasteners of Type 304 stainless steel.

B. Nails, Brads, and Staples: ASTM F1667.

C. Power-Driven Fasteners: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC70.

D. Post-Installed Anchors: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01 or ICC-ES AC193 as appropriate for the substrate.
1. Material: Carbon-steel components, zinc plated to comply with ASTM B633, Class Fe/Zn 5.
2. Material: Stainless steel with bolts and nuts complying with ASTM F593 and ASTM F594, Alloy Group 1 or 2 (ASTM F738M and ASTM F836M, Grade A1 or A4).

2.10 MISCELLANEOUS MATERIALS

A. Sill-Sealer Gaskets: Closed-cell neoprene foam, 1/4 inch thick, selected from manufacturer's standard widths to suit width of sill members indicated.

B. Adhesive, Including Gluing Furring and Sleepers to Concrete or Masonry: Formulation complying with ASTM D3498 that is approved for use indicated by adhesive manufacturer.

PART 3 EXECUTION

3.1 INSTALLATION, GENERAL

A. Framing Standard: Comply with AWC WCD1, "Details for Conventional Wood Frame Construction," unless otherwise indicated.

B. Set rough carpentry to required levels and lines, with members plumb, true to line, cut, and fitted. Fit rough carpentry accurately to other construction. Locate furring, nailers, blocking, grounds, and similar supports to comply with requirements for attaching other construction.

C. Install plywood backing panels by fastening to studs; coordinate locations with utilities requiring backing panels. Install fire-retardant-treated plywood backing panels with classification marking of testing agency exposed to view.

D. Install sill sealer gasket to form continuous seal between sill plates and foundation walls.

E. Provide blocking and framing as indicated and as required to support facing materials, fixtures, specialty items, and trim.

F. Provide fire blocking in furred spaces, stud spaces, and other concealed cavities as indicated.

G. Sort and select lumber so that natural characteristics do not interfere with installation or with fastening other materials to lumber. Do not use materials with defects that interfere with function of member or pieces that are too small to use with minimum number of joints or optimum joint arrangement.

H. Comply with AWPA M4 for applying field treatment to cut surfaces of preservative-treated lumber.
1. Use inorganic boron for items that are continuously protected from liquid water.
2. Use copper naphthenate for items not continuously protected from liquid water.

I. Securely attach rough carpentry work to substrate by anchoring and fastening as indicated, complying with the following:
1. Table 2304.9.1, "Fastening Schedule," in ICC's International Building Code ICC (IBC).
2. Table R602.3(1), "Fastener Schedule for Structural Members," and Table R602.3(2), "Alternate Attachments," in ICC's International Residential Code for One- and Two-Family Dwellings.
3. ICC-ES evaluation report for fastener.

J. Use steel common nails unless otherwise indicated. Select fasteners of size that will not fully penetrate members where opposite side will be exposed to view or will receive finish materials. Make tight connections between members. Install fasteners without splitting wood. Drive nails snug but do not countersink nail heads unless otherwise indicated.

K. For exposed work, arrange fasteners in straight rows parallel with edges of members, with fasteners evenly spaced, and with adjacent rows staggered.
1. Use finishing nails unless otherwise indicated. Countersink nail heads and fill holes with wood filler.

3.2 INSTALLATION OF WOOD BLOCKING AND NAILERS

A. Install where indicated and where required for attaching other work. Form to shapes indicated and cut as required for true line and level of attached work. Coordinate locations with other work involved.

B. Attach items to substrates to support applied loading. Recess bolts and nuts flush with surfaces unless otherwise indicated.

3.3 INSTALLATION OF WOOD FURRING

A. Install level and plumb with closure strips at edges and openings. Shim with wood as required for tolerance of finish work.

B. Furring to Receive Plywood or Hardboard Paneling: Install 1 inch by 3 inch nominal- size furring horizontally at 24 inches o.c.

C. Furring to Receive Gypsum Board: Install 1 inch by 2 inch nominal size furring vertically at 16 inches o.c.

3.4 PROTECTION

A. Protect wood that has been treated with inorganic boron (SBX) from weather. If, despite protection, inorganic boron-treated wood becomes wet, apply EPA-registered borate treatment. Apply borate solution by spraying to comply with EPA-registered label.

END OF SECTION 06 10 00

SECTION 06 40 23 - INTERIOR ARCHITECTURAL WOODWORK

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Interior woodwork elements.
2. Interior standing and running trim.
3. Closet and utility shelving.
4. Wood furring, blocking, shims, and hanging strips for installing interior architectural woodwork items that are not concealed within other construction.
5. Shop priming of interior architectural woodwork.
6. Shop finishing of interior architectural woodwork.

B. Related Requirements:
1. Section 06 10 00 - Rough Carpentry for wood furring, blocking, shims, and hanging strips required for installing interior architectural woodwork that are concealed within other construction before interior architectural woodwork installation.

1.3 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections, to ensure that interior architectural woodwork can be supported and installed as indicated.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

A. Product Data: For the following:
1. Anchors.
2. Adhesives.
3. Shop finishing materials.
4. Wood-Preservative Treatment:
a. Include data and warranty information from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.
b. Indicate type of preservative used and net amount of preservative retained.
c. Include chemical-treatment manufacturer's written instructions for finishing treated material and manufacturer's written warranty.
5. Fire-Retardant Treatment: Include data and warranty information from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.
6. Waterborne Treatments: For products receiving a waterborne treatment, include statement that moisture content of treated materials was reduced to levels specified before shipment to Project site.

B. Shop Drawings:
1. Include the following:
a. Dimensioned plans, elevations, and sections.
b. Attachment details.
2. Show large-scale details.
3. Show locations and sizes of furring, blocking, and hanging strips, including blocking and reinforcement concealed by construction and specified in other Sections.
4. Apply AWI Quality Certification Program label to Shop Drawings.

C. Samples for Verification: For the following:
1. Lumber for Transparent Finish: Not less than 5 inches wide by 12 inches long, for each species and cut, finished on one side and one edge.
2. Veneer Leaves: Representative of and selected from flitches to be used for transparent- finished interior architectural woodwork.
3. Lumber and Panel Products with Shop-Applied Opaque Finish: 5 inches wide by 12 inches long for lumber and 12 inches by 12 inches for panels, for each finish system and color.
a. Finish entire exposed surface.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For architectural woodwork manufacturer and Installer.

B. Product Certificates: For the following:
1. Composite wood and agrifiber products.
2. Adhesives.

C. Evaluation Reports: For preservative-treated and fire-retardant-treated wood materials, from ICC-ES.

D. Field quality-control reports.

1.7 CLOSEOUT SUBMITTALS

A. Quality Standard Compliance Certificates: AWI Quality Certification Program certificates.

1.8 QUALITY ASSURANCE

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

B. Manufacturer's Qualifications: Employs skilled workers who custom fabricate products similar to those required for this Project and whose products have a record of successful in-service performance.
1. Manufacturer's Certification: Licensed participant in AWI's Quality Certification Program.
2. Installer Qualifications: Licensed participant in AWI's Quality Certification Program.

C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
1. Build mockups of typical interior architectural woodwork as shown on Drawings.
2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Owner specifically approves such deviations by Change Order.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Comply with the Architectural Woodwork Standards, Section 2.

B. Do not deliver interior architectural woodwork until painting and similar finish operations that might damage woodwork have been completed in installation areas.

C. Store woodwork in installation areas or in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.
1. Handle and store fire-retardant-treated wood to comply with chemical treatment manufacturer's written instructions.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install interior architectural woodwork until building is enclosed, wet-work is complete, and HVAC system is operating and maintaining temperature and relative humidity at levels designed for building occupants for the remainder of the construction period.

B. Field Measurements: Where interior architectural woodwork is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication, and indicate measurements on Shop Drawings.
1. Locate concealed framing, blocking, and reinforcements that support woodwork by field measurements before being concealed by construction, and indicate measurements on Shop Drawings.

C. Established Dimensions: Where interior architectural woodwork is indicated to fit to other construction, establish dimensions for areas where woodwork is to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

1.11 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that architectural woodwork can be supported and installed as indicated.

PART 2 PRODUCTS

2.1 INTERIOR STANDING AND RUNNING TRIM FOR TRANSPARENT FINISH

A. Architectural Woodwork Standards Grade: Custom.

B. Hardwood Lumber:
1. Wood Species and Cut: As indicated on Drawings.
2. Wood Moisture Content: 5 to 10 percent.
3. For base wider than available lumber, glue for width. Do not use veneered construction.

C. Softwood Lumber:
1. Wood Species and Cut: As indicated on Drawings.
2. Wood Moisture Content: 5 to 10 percent.
3. For base wider than available lumber, glue for width. Do not use veneered construction.
4. Do not use plain-sawn softwood lumber with exposed, flat surfaces more than 3 inches wide.

D. 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.

2.2 INTERIOR STANDING AND RUNNING TRIM FOR OPAQUE FINISH

A. Architectural Woodwork Standards Grade: Custom.
1. Wood Species: Any closed-grain hardwood.
2. Wood Moisture Content: 5 to 10 percent.

2.3 CLOSET AND UTILITY SHELVING

A. Architectural Woodwork Standards Grade: Custom.

B. Shelf Material: 3/4 inch veneer-faced panel product with solid-lumber edge

C. Cleats: 3/4 inch solid lumber.

D. Wood Species for Clear Finish: As indicated on Drawings.

E. Wood Species for Opaque Finish: Any closed-grain hardwood.

F. Rod Flanges: Chrome-plated steel.

G. Wood Finish: As indicated on Drawings or in schedules.

2.4 HARDWOOD SHEET MATERIALS

A. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of the Architectural Woodwork Standards for each type of interior architectural woodwork and quality grade specified unless otherwise indicated.
1. Medium-Density Fiberboard (MDF): ANSI A208.2, Grade 130.
2. Particleboard: ANSI A208.1, Grade M-2-Exterior Glue.
3. Particleboard: Straw-based particleboard complying with requirements in ANSI A208.1, Grade M-2, except for density.
4. Softwood Plywood: DOC PS 1, medium-density overlay.
5. Plywood: AWI Section 200.
a. Concealed use substrates: CDX, D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8-inch thick.
b. OSB is an alternative as allowed by Chipotle CM.
6. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1.

2.5 FIRE-RETARDANT-TREATED WOOD MATERIALS

A. Fire-Retardant-Treated Wood Materials: Where fire-retardant-treated materials are indicated, use materials complying with requirements that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products according to test method indicated by a qualified testing agency.
1. Use treated materials that comply with requirements of the Architectural Woodwork Standards. Do not use materials that are warped, discolored, or otherwise defective.
2. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
3. Identify fire-retardant-treated materials with appropriate classification marking of qualified testing agency in the form of removable paper label or imprint on surfaces that will be concealed from view after installation.

B. Fire-Retardant-Treated Lumber and Plywood: Products with a flame-spread index of 25 or less when tested according to ASTM E84, with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet beyond the centerline of the burners at any time during the test.
1. Kiln-dry lumber and plywood after treatment to a maximum moisture content of 19 and 15 percent, respectively.
2. For items indicated to receive a stained, transparent, or natural finish, use organic resin chemical formulation.
3. Mill lumber before treatment, and implement procedures during treatment and drying processes that prevent lumber from warping and developing discolorations from drying sticks or other causes, marring, and other defects affecting appearance of treated woodwork.

C. Fire-Retardant Particleboard: Made from softwood particles and fire-retardant chemicals mixed together at time of panel manufacture, to achieve flame-spread index of 25 or less and smoke- developed index of 25 or less according to ASTM E84.

D. Fire-Retardant Fiberboard: Medium-density fiberboard (MDF) panels complying with ANSI A208.2, made from softwood fibers, synthetic resins, and fire-retardant chemicals mixed together at time of panel manufacture, to achieve flame-spread index of 25 or less and smoke- developed index of 200 or less according to ASTM E84.

2.6 MISCELLANEOUS MATERIALS

A. Furring, Blocking, Shims, and Nailers: Fire-retardant-treated softwood lumber, kiln-dried to less than 15 percent moisture content.
B. B. Wood Moisture Content: Comply with requirements of referenced quality standard for wood moisture content in relation to ambient relative humidity during fabrication and in installation areas.
C. Sand fire-retardant-treated wood lightly to remove raised grain on exposed surfaces before fabrication.

D. Fabricate interior architectural woodwork to dimensions, profiles, and details indicated.
1. Ease edges to radius indicated for the following:
a. Edges of Solid-Wood (Lumber) Members: 1/16 inch unless otherwise indicated.
b. Edges of Rails and Similar Members More Than 3/4 Inch Thick: 1/8 inch.

E. Complete fabrication, including assembly, to maximum extent possible before shipment to Project site.
1. Disassemble components only as necessary for shipment and installation.
2. Where necessary for fitting at site, provide allowance for scribing, trimming, and fitting.

2.8 SHOP PRIMING

A. Preparations for Finishing: Comply with the Architectural Woodwork Standards for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing interior architectural woodwork, as applicable to each unit of work.

B. Interior Architectural Woodwork for Opaque Finish: Shop prime with one coat of wood primer as specified in Section 09 91 23 - Interior Painting.
1. Backpriming: Apply one coat of primer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to surfaces installed in contact with concrete or masonry and to end-grain surfaces.

C. Interior Architectural Woodwork for Transparent Finish: Shop-seal concealed surfaces with required pretreatments and first coat of finish as specified in Section 099300 "Staining and Transparent Finishing."
1. Backpriming: Apply one coat of sealer, compatible with finish coats, to concealed surfaces of woodwork. Apply two coats to surfaces installed in contact with concrete or masonry and to end-grain surfaces.

2.9 SHOP FINISHING

A. Sayerlack Hydroplus Waterborne Clear, 5 sheen for spalted veneer.
B. Perfecta UV-Cured topcoat for panels with printed artwork.

PART 3 EXECUTION

3.1 PREPARATION

A. Before installation, condition interior architectural woodwork to humidity conditions in installation areas for not less than 72 hours prior to beginning of installation.
B. Before installing interior architectural woodwork, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming of concealed surfaces.

3.2 INSTALLATION

A. Grade: Install interior architectural woodwork to comply with same grade as item to be installed.

B. Assemble interior architectural woodwork and complete fabrication at Project site to the extent that it was not completed during shop fabrication.

C. Install interior architectural woodwork level, plumb, true in line, and without distortion.
1. Shim as required with concealed shims.
2. Install level and plumb to a tolerance of 1/8 inch in 96 inches.

D. Scribe and cut interior architectural woodwork to fit adjoining work, refinish cut surfaces, and repair damaged finish at cuts.

E. Preservative-Treated Wood: Where cut or drilled in field, treat cut ends and drilled holes according to AWPA M4.

F. Fire-Retardant-Treated Wood: Install fire-retardant-treated wood to comply with chemical treatment manufacturer's written instructions, including those for adhesives used to install woodwork.

G. Anchor interior architectural woodwork to anchors or blocking built in or directly attached to substrates.
1. Secure with countersunk, concealed fasteners and blind nailing.
2. Use fine finishing nails or finishing screws for exposed fastening, countersunk and filled flush with interior architectural woodwork.
3. For shop-finished items, use filler matching finish of items being installed.

H. Standing and Running Trim:
1. Install with minimum number of joints possible, using full-length pieces (from maximum length of lumber available) to greatest extent possible.
2. Do not use pieces less than 60 inches long, except where shorter single-length pieces are necessary.
3. Scarf running joints and stagger in adjacent and related members.
4. Fill gaps, if any, between top of base and wall with plastic wood filler; sand smooth; and finish same as wood base if finished.
5. Install standing and running trim with no more variation from a straight line than 1/8 inch in 96 inches.

I. Prefinished Millwork Wall Panels:
1. Use finish nails for exposed nailing, installed with pneumatic nailer as per following guidelines:
a. Nailer to be set for countersunk head approximately 1/8-inch on the face.
b. Use 16 gage straight finish nails in 2-inch 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-inch from any edge.
f. All nails to be no greater than 16-18 inches apart in any direction.
g. When using digital printed MDF panels, plan layout so adjacent panels do not have the same artwork.

J. Touch up shop finished plywood materials marred or damaged during delivery, storage and installation.
1. For spalted veneer panels, use custom blended polyurethane to equal Minwax "Wipe on Poly".
2. For printed artwork panels, buff with dry cloth for smudges, and use lint free cloth for dust. For liquids, blot with cloth or sponge to absorb liquid, then use water saturated soft cloth with a small amount of mild soap to wipe surface clean, buff with dry cloth to remove streaks.

K. Install caswork 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.

L. Touch-up shop finished materials marred or damaged during delivery, storage and installation:
1. For spalted veneer panels, use custom blended polyurethane to equal Minwax "Wipe on Poly".
2. 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.

3.3 REPAIR

A. Repair damaged and defective interior architectural woodwork, where possible, to eliminate functional and visual defects and to result in interior architectural woodwork being in compliance with requirements of Architectural Woodwork Standards for the specified grade.

B. Where not possible to repair, replace defective woodwork.

C. Shop Finish: Touch up finishing work specified in this Section after installation of interior architectural woodwork.
1. Fill nail holes with matching filler where exposed.
2. Apply specified finish coats, including stains and paste fillers if any, to exposed surfaces where only sealer/prime coats are shop applied.

D. Field Finish: See Section 09 91 23 - Interior Painting and Section 09 93 00 - Staining and Transparent Finishing for final finishing of installed interior architectural woodwork not indicated to be shop finished.

3.4 CLEANING

A. Clean interior architectural woodwork on exposed and semiexposed surfaces.

END OF SECTION 06 40 23

SECTION 06 42 16 - FLUSH WOOD PANELING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

Consultant:

INTERIOR ARCHITECTS

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G020

1.2 SUMMARY

A. Section Includes:
1. Flush wood paneling.
2. Wood furring, blocking, shims, and hanging strips for installing flush wood paneling that is not concealed within other construction.
3. Shop finishing of flush wood paneling.

B. Related Requirements:
1. Section 05 70 00 - Decorative Metal for metal reveals at wood paneling.
2. Section 06 10 00 - Rough Carpentry for wood furring, blocking, shims, and hanging strips required for installing paneling that is concealed within other construction before paneling installation.

1.3 COORDINATION

A. Coordinate sizes and locations of framing, blocking, furring, reinforcements, and other related units of Work specified in other Sections to ensure that paneling can be installed as indicated.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Include data for fire-retardant treatment from chemical-treatment manufacturer and certification by treating plant that treated materials comply with requirements.

B. Shop Drawings: For flush wood paneling.
1. Include plans, elevations, sections, and attachment details.
2. Show details full size.
3. Show locations and sizes of furring and blocking, including concealed blocking specified in other Sections.
4. For paneling produced from premanufactured sets, show finished panel sizes, set numbers, sequence numbers within sets, and method of cutting panels to produce indicated sizes.
5. For paneling veneered in fabrication shop, show veneer leaves with dimensions, grain direction, exposed face, and identification numbers indicating the flitch and sequence within the flitch for each leaf.
6. Apply AWI Quality Certification Program label to Shop Drawings.

C. Samples: For each exposed product and for each color and finish specified, in manufacturer's or fabricator's standard size.

D. Samples for Initial Selection: For each type of exposed finish.

E. Samples for Verification: For the following:
1. Lumber for Transparent Finish: Not less than 5 inches (125 mm) wide by 24 inches (600 mm) long, for each species and cut, finished on one side and one edge.
2. Veneer Leaves: Representative of and selected from flitches to be used for transparent- finished paneling.
3. Veneer-Faced Panel Products for Transparent Finish: 12 by 24 inches (300 by 600 mm), for each species and cut. Include at least one face-veneer seam and finish as specified.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For fabricator.

B. Product Certificates: For each type of product.

C. Quality Standard Compliance Certificates: AWI Quality Certification Program.

D. Evaluation Reports: For fire-retardant-treated materials, from ICC-ES.

1.7 QUALITY ASSURANCE

A. Fabricator Qualifications: Shop that employs skilled workers who custom-fabricate products similar to those required for this Project and whose products have a record of successful in- service performance.
1. Shop Certification: AWI's Quality Certification Program accredited participant.

B. Installer Qualifications: Fabricator of products; AWI's Quality Certification Program accredited participant.

C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for materials and execution.
1. Build mockups of typical paneling as shown on Drawings.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Do not deliver paneling until painting and similar operations that might damage paneling have been completed in installation areas. Store paneling in installation areas or in areas where environmental conditions comply with requirements specified in "Field Conditions" Article.

1.9 FIELD CONDITIONS

A. Environmental Limitations: Do not deliver or install paneling until building is enclosed, wet-work is complete, and HVAC system is operating and will maintain temperature and relative humidity at levels planned for building occupants during the remainder of the construction period.

B. Field Measurements: Where paneling is indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.
1. Locate concealed framing, blocking, and reinforcements that support paneling by field measurements before being enclosed/concealed by construction and indicate measurements on Shop Drawings.
2. Established Dimensions: Where paneling is indicated to fit to other construction, establish dimensions for areas where woodwork is to fit. Provide allowance for trimming at site, and coordinate construction to ensure that actual dimensions correspond to established dimensions.

PART 2 PRODUCTS

2.1 PANELING FABRICATORS

A. Source Limitations: Engage a qualified woodworking firm to assume undivided responsibility for production of paneling and wood-veneer faced architectural cabinets**.**

2.2 PANELING, GENERAL

A. Quality Standard: Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of flush wood paneling (wood-veneer wall surfacing) indicated for construction, finishes, installation, and other requirements.
1. Provide inspections of fabrication and installation together with labels and certificates from AWI certification program indicating that woodwork complies with requirements of grades specified.
2. The Contract Documents contain requirements that are more stringent than the referenced woodwork quality standard. Comply with requirements of Contract Documents in addition to those of the referenced quality standard.

2.3 FLUSH WOOD PANELING (WOOD-VENEER WALL SURFACING)

A. Grade: Premium.

B. Wood Species and Cut: As indicated on Drawings.

C. Veneer Matching Method: As indicated on Drawings.

D. Panel-Matching Method: As indicated on Drawings.
1. See Section 01 10 00 - Summary for requirements concerning flitches reserved by Architect.

E. Vertical Panel-Matching Method: As indicated on Drawings**.**.

F. Panel Core Construction: Hardwood veneer-core plywood.

G. Exposed Panel Edges: Inset solid-wood or wood-veneer matching faces**.**

H. Panel Reveals: As indicated on Drawings.

I. Fire-Retardant-Treated Paneling: Panels shall consist of wood-veneer and fire-retardant particleboard or fire-retardant, medium-density fiberboard (MDF). Panels shall have a flame- spread index of 25 or less and a smoke-developed index of 450 or less per ASTM E84, and be listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction.

J. Assemble panels by gluing and concealed fastening.

2.4 MATERIALS

A. Materials, General: Provide materials that comply with requirements of referenced quality standard for each quality grade specified unless otherwise indicated.
B. Wood Moisture Content: 5 to 10 percent.

C. Composite Wood and Agrifiber Products: Provide materials that comply with requirements of referenced quality standard for each quality grade specified unless otherwise indicated.
1. MDF: ANSI A208.2, Grade 155.
2. Particleboard: ANSI A208.1, Grade M-2.
3. Straw-Based Particleboard: ANSI A208.1, Grade M-2, except for density.
4. Veneer-Faced Panel Products (Hardwood Plywood): HPVA HP-1.

2.5 FIRE-RETARDANT-TREATED MATERIALS

A. Fire-Retardant-Treated Materials, General: Where fire-retardant-treated materials are indicated, use materials that are acceptable to authorities having jurisdiction and with fire-test-response characteristics specified as determined by testing identical products per test method indicated by a qualified testing agency.
1. Use treated materials that comply with requirements of referenced quality standard. Do not use materials that are warped, discolored, or otherwise defective.
2. Use fire-retardant-treatment formulations that do not bleed through or otherwise adversely affect finishes. Do not use colorants to distinguish treated materials from untreated materials.
3. Identify fire-retardant-treated materials with appropriate classification marking of qualified testing agency in the form of removable paper label or imprint on surfaces that will be concealed from view after installation.

B. Fire-Retardant-Treated Lumber and Plywood: Products with a flame-spread index of 25 or less when tested according to ASTM E84, with no evidence of significant progressive combustion when the test is extended an additional 20 minutes, and with the flame front not extending more than 10.5 feet (3.2 m) beyond the centerline of the burners at any time during the test.
1. Kiln-dry lumber and plywood after treatment to a maximum moisture content of 19 and 15 percent, respectively.
2. For items indicated to receive a stained or natural finish, use organic resin chemical formulation.
3. Mill lumber before treatment and implement procedures during treatment and drying processes that prevent lumber from warping and developing discolorations from drying sticks or other causes, marring, and other defects affecting appearance of paneling.

C. Fire-Retardant Fiberboard: MDF panels complying with ANSI A208.2, made from softwood fibers, synthetic resins, and fire-retardant chemicals mixed together at time of panel manufacture to achieve flame-spread index of 25 or less and smoke-developed index of 200 or less per ASTM E894. Do not use where code requires non-combustible materials.

2.6 INSTALLATION MATERIALS

A. Furring, Blocking, Shims, and Hanging Strips: Fire-retardant-treated softwood lumber, kiln- dried to less than 15 percent moisture content.

B. Anchors: Select material, type, size, and finish required for each substrate for secure anchorage. Provide metal expansion sleeves or expansion bolts for post-installed anchors. Use nonferrous-metal or hot-dip galvanized anchors and inserts at inside face of exterior walls.

C. Installation Adhesive: Product recommended by panel fabricator for each substrate for secure anchorage.

2.7 FABRICATION

A. Sand fire-retardant-treated wood lightly to remove raised grain on exposed surfaces before fabrication.

B. Arrange paneling in shop or other suitable space in proposed sequence for examination by Architect. Mark units with temporary sequence numbers to indicate position in proposed layout.
1. Lay out one elevation at a time if approved by Architect.
2. Notify Architect seven days in advance of the date and time when layout will be available for viewing.
3. Provide lighting of similar type and level as that of final installation for viewing layout unless otherwise approved by Architect.
4. Rearrange paneling as directed by Architect until layout is approved.
5. Do not trim end units and other nonmodular-size units to less than modular size until after Architect's approval of layout. Indicate trimming by masking edges of units with nonmarking material.
6. Obtain Architect's approval of layout before start of assembly. Mark units and Shop Drawings with assembly sequence numbers based on approved layout.

C. Complete fabrication, including assembly, to maximum extent possible, before shipment to Project site. Disassemble components only as necessary for shipment and installation. Where necessary for fitting at site, provide ample allowance for scribing, trimming, and fitting.
1. Notify Architect seven days in advance of the dates and times paneling fabrication will be complete.

D. Shop cut openings, to maximum extent possible, to receive hardware, appliances, plumbing fixtures, electrical work, and similar items. Locate openings accurately and use templates or roughing-in diagrams to produce accurately sized and shaped openings. Sand edges of cutouts to remove splinters and burrs.

2.8 SHOP FINISHING

A. General: Finish paneling at fabrication shop as specified in this Section. Defer only final touchup, cleaning, and polishing until after installation.

B. Preparation for Finishing: Comply with referenced quality standard for sanding, filling countersunk fasteners, sealing concealed surfaces, and similar preparations for finishing paneling, as applicable to each unit of work.
1. Backpriming: Apply two coats of sealer or primer, compatible with finish coats, to concealed surfaces of paneling.

C.Transparent Finish:
1. Grade: Premium.
2. Finish: System - 7, catalyzed vinyl.
3. Wash Coat for Closed-Grain Woods: Apply wash-coat sealer to woodwork made from closed-grain wood before staining and finishing.
4. Staining and Sheen: Match Architect's sample.
5. Open Finish for Open-Grain Woods: Do not apply filler to open-grain woods.
6. Filled Finish for Open-Grain Woods: After staining, apply wash-coat sealer and allow to dry**.** Apply paste wood filler and wipe off excess. Tint filler to match stained wood.

PART 3 EXECUTION

3.1 PREPARATION

A. Before installation, condition paneling to humidity conditions in installation areas.

B. Before installing paneling, examine shop-fabricated work for completion and complete work as required, including removal of packing and backpriming.

3.2 INSTALLATION

A. Grade: Install paneling to comply with quality standard grade of paneling to be installed.

B. Install paneling level, plumb, true in line, and without distortion. Shim as required with concealed shims. Install level and plumb to a tolerance of 1/8 inch in 96 inches (3 mm in 2400 mm). Install with no more than 1/16 inch in 96-inch (1.6 mm in 2400-mm) vertical cup or bow and 1/8 inch in 96-inch (3 mm in 2400-mm) horizontal variation from a true plane.
1. For flush paneling with revealed joints, install with variations in reveal width, alignment of top and bottom edges, and flushness between adjacent panels not exceeding 1/32 inch (0.8 mm).

C. Anchor paneling to supporting substrate with concealed panel-hanger clips.
1. Do not use face fastening.

D. Complete finishing work specified in this Section to extent not completed at shop or before installation of paneling. Fill nail holes with matching filler where exposed.
1. Apply specified finish coats, including stains and paste fillers if any, to exposed surfaces where only sealer/prime coats are shop applied.

3.3 ADJUSTING AND CLEANING

A. Repair damaged and defective paneling, where possible, to eliminate defects. Where not possible to repair, replace paneling. Adjust for uniform appearance.

B. Clean paneling on exposed surfaces. Touch up shop-applied finishes to restore damaged or soiled areas.

END OF SECTION 06 42 16

SECTION 06 64 00 - PLASTIC PANELING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Plastic sheet paneling.

B. Related Requirements:
1. Section 06 10 00 - Rough Carpentry for wood furring for installing plastic paneling.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples: For plastic paneling and trim accessories, in manufacturer's standard sizes.

1.4 INFORMATIONAL SUBMITTALS

1.5 PROJECT CONDITIONS

A. Environmental Limitations: Do not deliver or install plastic paneling until spaces are enclosed and weathertight and temporary HVAC system is operating and maintaining ambient temperature and humidity conditions at occupancy levels during the remainder of the construction period.

PART 2 PRODUCTS

2.1 MANUFACTURER

A. Source Limitations: Obtain each glass-fiber-reinforced paneling from single source from single manufacturer.

2.2 PLASTIC SHEET PANELING

A. Basis-of-Design Products: Marlite, (330) 343.6621. Website: www.marlite.com. Email: info@marlite.com.

B. Glass-Fiber-Reinforced Plastic Paneling: Gelcoat-finished, glass-fiber-reinforced plastic panels complying with ASTM D5319. [Panels shall be USDA accepted for incidental food contact.]
1. Surface-Burning Characteristics: As follows when tested by a qualified testing agency according to ASTM E84. Identify products with appropriate markings of applicable testing agency.
a. Flame-Spread Index: 25 or less.
b. Smoke-Developed Index: 450 or less.
2. 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 indicental food contact.
a. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and dividion moldings as required to complete the installation
1) Inside Corner - M350
2) Division - M365
3) Edge - M370
b. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/1" outside corners as required to complete the installation.
c. Sealant: Marlite "Silicone Sealant", white unnable silicone sealant.
d. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surface.
3. 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.
a. Panel trim: ExtrudedPVC, color matching panel color. Provide division moldings as required to complete the installation.
1) Division - M365
b. Sealant: Marlite "Silicone Sealant", white gunable silicone sealant.
c. Panel adhasive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces
4. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture

2.3 ACCESSORIES

A. Trim Accessories: Manufacturer's standard one-piece vinyl extrusions designed to retain and cover edges of panels. Provide division bars, inside corners, outside corners, and caps as needed to conceal edges.
1. Color: Match panels.

B. Exposed Fasteners: Nylon drive rivets recommended by panel manufacturer.

C. Concealed Mounting Splines: Continuous, H-shaped aluminum extrusions designed to fit into grooves routed in edges of factory-laminated panels and to be fastened to substrate.

D. Adhesive: As recommended by plastic paneling manufacturer.

E. Sealant: Mildew-resistant, single-component, neutral-curing silicone sealant recommended by plastic paneling manufacturer and complying with requirements in Section 07 92 00 - Joint Sealants.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

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

3.2 PREPARATION

A. Remove wallpaper, vinyl wall covering, loose or soluble paint, and other materials that might interfere with adhesive bond.

B. Prepare substrate by sanding high spots and filling low spots as needed to provide flat, even surface for panel installation.

C. Clean substrates of substances that could impair adhesive bond, including oil, grease, dirt, and dust.

D. Condition panels by unpacking and placing in installation space before installation according to manufacturer's written recommendations.

E. Lay out paneling before installing. Locate panel joints to provide equal panels at ends of walls not less than half the width of full panels and so that trimmed panels at corners are not less than 12 inches (300 mm) wide.
1. Mark plumb lines on substrate at panel joint locations for accurate installation.
2. Locate trim accessories to allow clearance at panel edges according to manufacturer's written instructions.

3.3 INSTALLATION

A. Install plastic paneling according to manufacturer's written instructions.

B. Install panels in a full spread of adhesive.

C. Install factory-laminated panels using concealed mounting splines in panel joints.

D. Install trim accessories with adhesive.

E. Fill grooves in trim accessories with sealant before installing panels, and bed inside corner trim in a bead of sealant.

F. Maintain uniform space between panels and wall fixtures. Fill space with sealant.

G. Remove excess sealant and smears as paneling is installed. Clean with solvent recommended by sealant manufacturer and then wipe with clean dry cloths until no residue remains.

END OF SECTION 06 64 00

Consultant:

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SECTION 07 72 00 - ROOF ACCESSORIES

PART 1 GENERAL

1.1 SUMMARY

A. Section Includes:
1. Roof curbs.

1.2 COORDINATION

A. Coordinate layout and installation of roof accessories with roofing membrane and base flashing and interfacing and adjoining construction to provide a leakproof, weathertight, secure, and noncorrosive installation.
B. Coordinate dimensions with rough-in information or Shop Drawings of equipment to be supported.
C. Coordinate installation and patching to maintain existing roofing warranty.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of roof accessory.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.

B. Shop Drawings: For roof accessories.
1. Include plans, elevations, keyed details, and attachments to other work. Indicate dimensions, loadings, and special conditions. Distinguish between plant- and field-assembled work.

C. Samples: For each exposed product and for each color and texture specified, prepared on Samples of size to adequately show color.

D. Delegated Design Submittals: For roof curbs indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
1. Detail mounting, securing, and flashing of roof-mounted items to roof structure. Indicate coordinating requirements with roof membrane system.
2. Wind-Restraint Details: Detail fabrication and attachment of wind restraints. Show anchorage details and indicate quantity, diameter, and depth of penetration of anchors.

1.2 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Roof plans, drawn to scale, and coordinating penetrations and roof-mounted items. Show the following:
1. Size and location of roof accessories specified in this Section.
2. Method of attaching roof accessories to roof or building structure.
3. Other roof-mounted items including mechanical and electrical equipment, ductwork, piping, and conduit.
4. Required clearances.

B. Sample Warranties: For manufacturer's special warranties.

1.3 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For roof accessories to include in operation and maintenance manuals.

1.4 WARRANTY

A. Special Warranty on Painted Finishes: Manufacturer's standard form in which manufacturer agrees to repair finishes or replace roof accessories that show evidence of deterioration of factory-applied finishes within specified warranty period.
1. Fluoropolymer Finish: Deterioration includes, but is not limited to, the following:
a. Color fading more than 5 Delta E units when tested according to ASTM D2244.
b. Chalking in excess of a No. 8 rating when tested according to ASTM D4214.
c. Cracking, checking, peeling, or failure of paint to adhere to bare metal.
2. Finish Warranty Period: 20 years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. General Performance: Roof accessories to withstand exposure to weather and resist thermally induced movement without failure, rattling, leaking, or fastener disengagement due to defective manufacture, fabrication, installation, or other defects in construction.

B. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design roof curbs to comply with wind performance requirements, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.

C. Wind-Restraint Performance: As indicated on Drawings.

2.2 ROOF CURBS

A. Roof Curbs: Internally reinforced roof-curb units capable of supporting superimposed live and dead loads, including equipment loads and other construction indicated on Drawings, bearing continuously on roof structure, and capable of meeting performance requirements; with welded or mechanically fastened and sealed corner joints, straight sides, integral metal cant, stepped integral metal cant raised the thickness of roof insulation, and integrally formed deck-mounting flange at perimeter bottom.

B. Size: Coordinate dimensions with roughing-in information or Shop Drawings of equipment to be supported.

C. Supported Load Capacity: Coordinate load capacity with information on Shop Drawings of equipment to be supported.

D. Steel: Zinc-coated (galvanized)] steel sheet, 0.079 inch (2.01 mm) thick.
1. Finish: Mill.
2. Color: As selected by Architect from manufacturer's full range.

E. Aluminum: 0.125 inch (3.17 mm) thick sheet.
1. Finish: Mill.
2. Color: As selected by Architect from manufacturer's full range.

F. Stainless Steel: 0.0781 inch (1.983 mm) thick sheet.
1. Finish: Manufacturer's standard.

G. Construction:
1. Curb Profile: Manufacturer's standard compatible with roofing system.
2. On ribbed or fluted metal roofs, form deck-mounting flange at perimeter bottom to conform to roof profile.
3. Fabricate curbs to minimum height of 12 inches (305 mm) above roofing surface unless otherwise indicated.
4. Top Surface: Level top of curb, with roof slope accommodated by sloping deck-mounting flange.
5. Sloping Roofs: Where roof slope exceeds 1:48, fabricate curb with perimeter curb height tapered to accommodate roof slope so that top surface of perimeter curb is level. Equip unit with water diverter or cricket on side that obstructs water flow.
6. Insulation: Factory insulated with 1-1/2-inch- (38-mm-) thick glass-fiber board insulation.
7. Liner: Same material as curb, of manufacturer's standard thickness and finish.
8. Nailer: Factory-installed wood nailer under top flange on side of curb, continuous around curb perimeter.
9. Wind Restraint Straps and Base Flange Attachment: Provide wind restraint straps, welded strap connectors, and base flange attachment to roof structure at perimeter of curb, of size and spacing required to meet wind uplift requirements.
10. Platform Cap: Where portion of roof curb is not covered by equipment, provide weathertight platform cap formed from 3/4-inch- (19-mm-) thick plywood covered with metal sheet of same type, thickness, and finish as required for curb.
11. Metal Counterflashing: Manufacturer's standard, removable, fabricated of same metal and finish as curb.
12. Security Grille: Provide for all units.
13. Damper Tray: Provide damper tray or shelf with opening of size indicated.

3.2 METAL MATERIALS

A. Zinc-Coated (Galvanized) Steel Sheet: ASTM A653/A653M, G90 (Z275) coating designation and mill phosphatized for field painting where indicated.
1. Mill-Phosphatized Finish: Manufacturer's standard for field painting.

B. Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A792/A792M, AZ50 (AZM150) coated.
1. Factory Prime Coating: Where field painting is indicated, apply pretreatment and white or light-colored, factory-applied, baked-on epoxy primer coat, with a minimum dry film thickness of 0.2 mil (0.005 mm).

C. Aluminum Sheet: ASTM B209 (ASTM B209M), manufacturer's standard alloy for finish required, with temper to suit forming operations and performance required.
1. Factory Mill Finish: As manufactured.

D. Aluminum Extrusions and Tubes: Alloy 6063-T6 to comply with ASTM B221 (ASTM B221M), manufacturer's standard alloy and temper for type of use, finished to match assembly where used; otherwise mill finished.

E. Stainless Steel Sheet and Shapes: ASTM A240/A240M or ASTM A666, Type 304.

F. Steel Shapes: ASTM A36/A36M, hot-dip galvanized according to ASTM A123/A123M unless otherwise indicated.

G. Steel Tube: ASTM A500/A500M, round tube.

H. Galvanized-Steel Tube: ASTM A500/A500M, round tube, hot-dip galvanized according to ASTM A123/A123M.

I. Steel Pipe: ASTM A53/A53M, galvanized.

1.1 MISCELLANEOUS MATERIALS

A. Provide materials and types of fasteners, protective coatings, sealants, and other miscellaneous items required by manufacturer for a complete installation.

B. Cellulosic-Fiber Board Insulation: ASTM C208, Type II, Grade 1, thickness as indicated.

C. Glass-Fiber Board Insulation: ASTM C726, nominal density of 3 lb/cu. ft. (48 kg/cu. m), thermal resistivity of 4.3 deg F x h x sq. ft./Btu x in. at 75 deg F (29.8 K x m/W at 24 deg C), thickness as indicated.

D. Polyisocyanurate Board Insulation: ASTM C1289, thickness and thermal resistivity as indicated.

E. Wood Nailers: Softwood lumber, pressure treated with waterborne preservatives for aboveground use, acceptable to authorities having jurisdiction, containing no arsenic or chromium, and complying with AWPA C2; not less than 1-1/2 inches (38 mm) thick.

F. Bituminous Coating: Cold-applied asphalt emulsion complying with ASTM D1187/D1187M.

G. Underlayment:
1. Felt: ASTM D226/D226M, Type II (No. 30), asphalt-saturated organic felt, nonperforated.
2. Polyethylene Sheet: 6-mil- (0.15-mm-) thick polyethylene sheet complying with ASTM D4397.
3. Slip Sheet: Building paper, 3 lb/100 sq. ft. (0.16 kg/sq. m) minimum, rosin sized.
4. Self-Adhering, High-Temperature Sheet: Minimum 30 to 40 mils (0.76 to 1.0 mm) thick, consisting of slip-resisting polyethylene-film top surface laminated to layer of butyl or SBS-modified asphalt adhesive, with release-paper backing; cold applied. Provide primer when recommended by underlayment manufacturer.

H. Fasteners: Roof accessory manufacturer's recommended fasteners suitable for application and metals being fastened. Match finish of exposed fasteners with finish of material being fastened. Provide nonremovable fastener heads to exterior exposed fasteners. Furnish the following unless otherwise indicated:
1. Fasteners for Zinc-Coated or Aluminum-Zinc Alloy-Coated Steel: Series 300 stainless steel or hot-dip zinc-coated steel according to ASTM A153/A153M or ASTM F2329.
2. Fasteners for Aluminum Sheet: Aluminum or Series 300 stainless steel.
3. Fasteners for Stainless Steel Sheet: Series 300 stainless steel.

I. Gaskets: Manufacturer's standard tubular or fingered design of neoprene, EPDM, PVC, or silicone or a flat design of foam rubber, sponge neoprene, or cork.

J. Elastomeric Sealant: ASTM C920, elastomeric polyurethane or silicone polymer sealant as recommended by roof accessory manufacturer for installation indicated; low modulus; of type, grade, class, and use classifications required to seal joints and remain watertight.

K. Butyl Sealant: ASTM C1311, single-component, solvent-release butyl rubber sealant; polyisobutylene plasticized; heavy bodied for expansion joints with limited movement.

1.2 GENERAL FINISH REQUIREMENTS AND FABRICATION

A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.

B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

C. Channel Side Rails: Not less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide.

D. Heavy Duty Tubular Side Rails: Assembled from two interlocking aluminum extrusions no less than 1/8 inch (3 mm) wall thickness by 3 inches (76 mm) wide. Construction shall be self-locking stainless steel fasteners, full penetration TIG welds and clean smooth and burr-free surfaces.

PART 3 EXECUTION

1.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, to verify actual locations, dimensions, and other conditions affecting performance of the Work.

B. Verify that substrate is sound, dry, smooth, clean, sloped for drainage, and securely anchored.

C. Verify dimensions of roof openings for roof accessories.

D. Proceed with installation only after unsatisfactory conditions have been corrected.

E. Coordinate anchorages. Furnish setting drawings, templates, and anchorage structural loads for fastener resistance.

F. Do not begin installation until supporting structure is complete and ladder installation will not interfere with supporting structure work.

1.2 INSTALLATION

A. Install roof accessories according to manufacturer's written instructions.
1. Install roof accessories level; plumb; true to line and elevation; and without warping, jogs in alignment, buckling, or tool marks.
2. Anchor roof accessories securely in place so they are capable of resisting indicated loads.
3. Use fasteners, separators, sealants, and other miscellaneous items as required to complete installation of roof accessories and fit them to substrates.
4. Install roof accessories to resist exposure to weather without failing, rattling, leaking, or loosening of fasteners and seals.

B. Metal Protection: Protect metals against galvanic action by separating dissimilar metals from contact with each other or with corrosive substrates by painting contact surfaces with bituminous coating or by other permanent separation as recommended by manufacturer.
1. Coat concealed side of uncoated aluminum roof accessories with bituminous coating where in contact with wood, ferrous metal, or cementitious construction.
2. Underlayment: Where installing roof accessories directly on cementitious or wood substrates, install a course of underlayment and cover with manufacturer's recommended slip sheet.
3. Bed flanges in thick coat of asphalt roofing cement where required by manufacturers of roof accessories for waterproof performance.

C. Roof Curb Installation: Install each roof curb so top surface is level.

D. Seal joints with elastomeric or butyl sealant as required by roof accessory manufacturer.

1.1 REPAIR AND CLEANING

A. Galvanized Surfaces: Clean field welds, bolted connections, and abraded areas and repair galvanizing according to ASTM A780/A780M.

B. Touch up factory-primed surfaces with compatible primer ready for field painting.

C. Clean exposed surfaces according to manufacturer's written instructions.

D. Clean off excess sealants.

E. Replace roof accessories that have been damaged or that cannot be successfully repaired by finish touchup or similar minor repair procedures.

END OF SECTION 07 72 00

SECTION 07 92 00 - JOINT SEALANTS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Silicone joint sealants.
2. Nonstaining silicone joint sealants.
3. Urethane joint sealants.
4. Immersible joint sealants.
5. Silyl-terminated polyether joint sealants.
6. Mildew-resistant joint sealants.
7. Polysulfide joint sealants.
8. Butyl joint sealants.
9. Latex joint sealants.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each joint-sealant product.
B. Samples for Verification: For each kind and color of joint sealant required, provide Samples with joint sealants in 1/2 inch- wide joints formed between two 6 inch- long strips of material matching the appearance of exposed surfaces adjacent to joint sealants.
C. Joint-Sealant Schedule: Include the following information:
1. Joint-sealant application, joint location, and designation.
2. Joint-sealant manufacturer and product name.
3. Joint-sealant formulation.
4. Joint-sealant color.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For qualified testing agency.

B. Product Test Reports: For each kind of joint sealant, for tests performed by a qualified testing agency.

C. Preconstruction Laboratory Test Schedule: Include the following information for each joint sealant and substrate material to be tested:
1. Joint-sealant location and designation.
2. Manufacturer and product name.
3. Type of substrate material.
4. Proposed test.
5. Number of samples required.

D. Preconstruction Laboratory Test Reports: From sealant manufacturer, indicating the following:
1. Materials forming joint substrates and joint-sealant backings have been tested for compatibility and adhesion with joint sealants.
2. Interpretation of test results and written recommendations for primers and substrate preparation are needed for adhesion.

E. Preconstruction Field-Adhesion-Test Reports: Indicate which sealants and joint preparation methods resulted in optimum adhesion to joint substrates based on testing specified in "Preconstruction Testing" Article.

F. Field-Adhesion-Test Reports: For each sealant application tested.

G. Sample Warranties: For special warranties.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An authorized representative who is trained and approved by manufacturer.

B. Product Testing: Test joint sealants using a qualified testing agency.
1. Testing Agency Qualifications: Qualified according to ASTM C1021 to conduct the testing indicated.

C. Mockups: Install sealant in mockups of assemblies specified in other Sections that are indicated to receive joint sealants specified in this Section. Use materials and installation methods specified in this Section.

1.7 FIELD CONDITIONS

A. Do not proceed with installation of joint sealants under the following conditions:
1. When ambient and substrate temperature conditions are outside limits permitted by joint- sealant manufacturer or are below 40 deg F.
2. When joint substrates are wet.
3. Where joint widths are less than those allowed by joint-sealant manufacturer for applications indicated.
4. Where contaminants capable of interfering with adhesion have not yet been removed from joint substrates.

1.8 WARRANTY

A. Special Installer's Warranty: Installer agrees to repair or replace joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period: Two years from date of Substantial Completion.

B. Special Manufacturer's Warranty: Manufacturer agrees to furnish joint sealants to repair or replace those joint sealants that do not comply with performance and other requirements specified in this Section within specified warranty period.
1. Warranty Period: Five years from date of Substantial Completion.

C. Special warranties specified in this article exclude deterioration or failure of joint sealants from the following:
1. Movement of the structure caused by stresses on the sealant exceeding sealant manufacturer's written specifications for sealant elongation and compression.
2. Disintegration of joint substrates from causes exceeding design specifications.
3. Mechanical damage caused by individuals, tools, or other outside agents.
4. Changes in sealant appearance caused by accumulation of dirt or other atmospheric contaminants.

PART 2 PRODUCTS

2.1 MATERIALS

A. Poly urethane sealants:
1. Tremco Commercial Sealants (800) 321-7906, internet HYPERLINK "http://www.tremcosealants.com/"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 HYPERLINK "http://www.sonneborn.com/"www.sonneborn.com

B. Silicone Sealants:
1. 1. General Electric Silicones, (800) 295-2392, internet HYPERLINK "http://www.gesilicones.com/"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. 2. Dow Corning Silicones, (989)496-4000, HYPERLINK "http://www.dowcorning.com/"www.dowcorning.com
a. "Dow 795"–one component, medium modulus, natural cure silicone.

Consultant:

INTERIOR ARCHITECTS

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

2.2 JOINT SEALANTS, GENERAL

A. Compatibility: Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.

B. Colors of Exposed Joint Sealants: As selected by Architect from manufacturer's full range.

2.3 SILICONE JOINT SEALANTS

A. Silicone, Nonstaining, S, NS, Class 100/50, T, NT: Single-component, nonsag, traffic- and nontraffic-use, neutral-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Uses T and NT.
1. Joint Locations:
a. Exterior joints in vertical surfaces.
b. Exterior joints in soffits.
c. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

2.4 URETHANE JOINT SEALANTS

A. Urethane, S, NS, 25, NT: Single-component, nonsag, nontraffic-use, plus 25 percent and minus 25 percent movement capability, urethane joint sealant; ASTM C920, Type S, Grade NS, Class 25, Use NT.
1. Joint Locations:
a. Control and expansion joints on exposed interior surfaces of exterior walls.
b. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

B. Urethane, S, P, 25, T, NT: Single-component, pourable, plus 25 percent and minus 25 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type S, Grade P, Class 25, Uses T and NT.
1. Joint Locations:
a. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

C. Urethane, M, P, 50, T, NT: Multicomponent, pourable, plus 50 percent and minus 50 percent movement capability, traffic- and nontraffic-use, urethane joint sealant; ASTM C920, Type M, Grade P, Class 50, Uses T and NT.
1. Joint Locations:
a. Joints between different materials listed above.
b. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

2.5 IMMERSIBLE JOINT SEALANTS

A. Immersible Joint Sealants. Suitable for immersion in liquids; ASTM C1247, Class 1 or Class 2; tested in deionized water unless otherwise indicated

2.6 MILDEW-RESISTANT JOINT SEALANTS

A. Mildew-Resistant Joint Sealants: Formulated for prolonged exposure to humidity with fungicide to prevent mold and mildew growth.
B. Silicone, Mildew Resistant, Acid Curing, S, NS, 25, NT: Mildew-resistant, single-component, nonsag, plus 25 percent and minus 25 percent movement capability, nontraffic-use, acid-curing silicone joint sealant; ASTM C920, Type S, Grade NS, Class 25, Use NT.
1. Joint Locations:
a. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

2.7 BUTYL JOINT SEALANTS

A. Butyl-Rubber-Based Joint Sealants: ASTM C1311.
1. Joint Locations:
a. Aluminum thresholds.
b. Sill plates.
c. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

2.8 LATEX JOINT SEALANTS

A. Acrylic Latex: Acrylic latex or siliconized acrylic latex, ASTM C834, Type OP, Grade NF.
1. Joint Locations:
a. Control joints on exposed interior surfaces of exterior walls.
b. Other joints as indicated on Drawings.
2. Joint-Sealant Color: As selected by Architect from manufacturer's full range of colors.

2.9 JOINT-SEALANT BACKING

A. Sealant Backing Material, General: Nonstaining; compatible with joint substrates, sealants, primers, and other joint fillers; and approved for applications indicated by sealant manufacturer based on field experience and laboratory testing.

B. Cylindrical Sealant Backings: ASTM C1330, Type B (bicellular material with a surface skin) or other type, as approved in writing by joint-sealant manufacturer for joint application indicated, and of size and density to control sealant depth and otherwise contribute to producing optimum sealant performance.

C. Bond-Breaker Tape: Polyethylene tape or other plastic tape recommended by sealant manufacturer for preventing sealant from adhering to rigid, inflexible joint-filler materials or joint surfaces at back of joint. Provide self-adhesive tape where applicable.
1. MISCELLANEOUS MATERIALS

A. Primer: Material recommended by joint-sealant manufacturer where required for adhesion of sealant to joint substrates indicated, as determined from preconstruction joint-sealant-substrate tests and field tests.
B. Cleaners for Nonporous Surfaces: Chemical cleaners acceptable to manufacturers of sealants and sealant backing materials, free of oily residues or other substances capable of staining or harming joint substrates and adjacent nonporous surfaces in any way, and formulated to promote optimum adhesion of sealants to joint substrates.
C. Masking Tape: Nonstaining, nonabsorbent material compatible with joint sealants and surfaces adjacent to joints.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine joints indicated to receive joint sealants, with Installer present, for compliance with requirements for joint configuration, installation tolerances, and other conditions affecting performance of the Work.

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

3.2 PREPARATION

A. Surface Cleaning of Joints: Clean out joints immediately before installing joint sealants to comply with joint-sealant manufacturer's written instructions and the following requirements:
1. Remove all foreign material from joint substrates that could interfere with adhesion of joint sealant, including dust, paints (except for permanent, protective coatings tested and approved for sealant adhesion and compatibility by sealant manufacturer), old joint sealants, oil, grease, waterproofing, water repellents, water, surface dirt, and frost.
2. Clean porous joint substrate surfaces by brushing, grinding, mechanical abrading, or a combination of these methods to produce a clean, sound substrate capable of developing optimum bond with joint sealants. Remove loose particles remaining after cleaning operations above by vacuuming or blowing out joints with oil-free compressed air. Porous joint substrates include the following:
a. Concrete.
b. Masonry.
c. Unglazed surfaces of ceramic tile.
d. Exterior insulation and finish systems.
3. Remove laitance and form-release agents from concrete.
4. Clean nonporous joint substrate surfaces with chemical cleaners or other means that do not stain, harm substrates, or leave residues capable of interfering with adhesion of joint sealants. Nonporous joint substrates include the following:
a. Metal.
b. Glass.
c. Porcelain enamel.
d. Glazed surfaces of ceramic tile.

B. Joint Priming: Prime joint substrates where recommended by joint-sealant manufacturer or as indicated by preconstruction joint-sealant-substrate tests or prior experience. Apply primer to comply with joint-sealant manufacturer's written instructions. Confine primers to areas of joint- sealant bond; do not allow spillage or migration onto adjoining surfaces.

C. Masking Tape: Use masking tape where required to prevent contact of sealant or primer with adjoining surfaces that otherwise would be permanently stained or damaged by such contact or by cleaning methods required to remove sealant smears. Remove tape immediately after tooling without disturbing joint seal.

3.3 INSTALLATION OF JOINT SEALANTS

A. General: Comply with joint-sealant manufacturer's written installation instructions for products and applications indicated, unless more stringent requirements apply.

B. Sealant Installation Standard: Comply with recommendations in ASTM C1193 for use of joint sealants as applicable to materials, applications, and conditions indicated.

C. Install sealant backings of kind indicated to support sealants during application and at position required to produce cross-sectional shapes and depths of installed sealants relative to joint widths that allow optimum sealant movement capability.
1. Do not leave gaps between ends of sealant backings.
2. Do not stretch, twist, puncture, or tear sealant backings.
3. Remove absorbent sealant backings that have become wet before sealant application, and replace them with dry materials.

D. Install bond-breaker tape behind sealants where sealant backings are not used between sealants and backs of joints.

E. Install sealants using proven techniques that comply with the following and at the same time backings are installed:
1. Place sealants so they directly contact and fully wet joint substrates.
2. Completely fill recesses in each joint configuration.
3. Produce uniform, cross-sectional shapes and depths relative to joint widths that allow optimum sealant movement capability.

F. Tooling of Nonsag Sealants: Immediately after sealant application and before skinning or curing begins, tool sealants according to requirements specified in subparagraphs below to form smooth, uniform beads of configuration indicated; to eliminate air pockets; and to ensure contact and adhesion of sealant with sides of joint.
1. Remove excess sealant from surfaces adjacent to joints.
2. Use tooling agents that are approved in writing by sealant manufacturer and that do not discolor sealants or adjacent surfaces.
3. Provide concave joint profile per Figure 8A in ASTM C1193 unless otherwise indicated.
4. Provide flush joint profile at locations indicated on Drawings according to Figure 8B in ASTM C1193.
5. Provide recessed joint configuration of recess depth and at locations indicated on Drawings according to Figure 8C in ASTM C1193.
a. Use masking tape to protect surfaces adjacent to recessed tooled joints.

3.4 FIELD QUALITY CONTROL

A. Field-Adhesion Testing: Field test joint-sealant adhesion to joint substrates as follows:
1. Extent of Testing: Test completed and cured sealant joints as follows:
a. Perform 10 tests for the first 1000 feet of joint length for each kind of sealant and joint substrate.
b. Perform one test for each 1000 feet of joint length thereafter or one test per each floor per elevation.
2. Test Method: Test joint sealants according to Method A, Field-Applied Sealant Joint Hand Pull Tab, in Appendix X1 in ASTM C1193 or Method A, Tail Procedure, in ASTM C1521.
a. For joints with dissimilar substrates, verify adhesion to each substrate separately; extend cut along one side, verifying adhesion to opposite side. Repeat procedure for opposite side.
3. Inspect tested joints and report on the following:
a. Whether sealants filled joint cavities and are free of voids.
b. Whether sealant dimensions and configurations comply with specified requirements.
c. Whether sealants in joints connected to pulled-out portion failed to adhere to joint substrates or tore cohesively. Include data on pull distance used to test each kind of product and joint substrate. Compare these results to determine if adhesion complies with sealant manufacturer's field-adhesion hand-pull test criteria.
4. Record test results in a field-adhesion-test log. Include dates when sealants were installed, names of persons who installed sealants, test dates, test locations, whether joints were primed, adhesion results and percent elongations, sealant material, sealant configuration, and sealant dimensions.
5. Repair sealants pulled from test area by applying new sealants following same procedures used originally to seal joints. Ensure that original sealant surfaces are clean and that new sealant contacts original sealant.

B. Evaluation of Field-Adhesion-Test Results: Sealants not evidencing adhesive failure from testing or noncompliance with other indicated requirements will be considered satisfactory. Remove sealants that fail to adhere to joint substrates during testing or to comply with other requirements. Retest failed applications until test results prove sealants comply with indicated requirements.

3.5 CLEANING

A. Clean off excess sealant or sealant smears adjacent to joints as the Work progresses by methods and with cleaning materials approved in writing by manufacturers of joint sealants and of products in which joints occur.

3.6 PROTECTION

A. Protect joint sealants during and after curing period from contact with contaminating substances and from damage resulting from construction operations or other causes so sealants are without deterioration or damage at time of Substantial Completion. If, despite such protection, damage or deterioration occurs, cut out, remove, and repair damaged or deteriorated joint sealants immediately so installations with repaired areas are indistinguishable from original work.

3.7 SEALANT SCHEDULE

A. Kitchen Area:
1. Provide a continuous bead of white GE SCS1700 silicone at the following locations:
a. Ceiling grid to FRP wall panels
b. Base of FRP wall panels to T.O. specified base material.
c. Walk in cooler walls to FRP wall panels.
d. Stainless closure pieces at cooler walls to FRP wall panels.
e. FRP/stainless corner guards to FRP wall panels.
f. Ceiling tile pipe penetrations.
g. Wall pipe penetrations and/or escutcheons perimeters. (water & gas lines).
h. Mop sink stainless surround perimeter to walls.
i. FRP closure panel, at top of cooler, to cooler walls.
j. FRP wall panels to hollow metal door frames.
k. Coke line bundle to PVC cap.
l. FRP inside corner pieces to FRP wall panels. Both sides of corner piece.
m. Battery backup cover panel to FRP.
n. Faucet's to FRP wall panels.
o. FRP wall panels to quarry tile cove base.
p. FRP to aluminum plate at walk thru.
q. Menu board light bracket to ceiling.
r. Mop sink base at quarry tile.
s. All sinks (multi-compartment, hand, mop and prep) to FRP/tile walls.
t. Paper towel dispensers & soap dispensers to FRP/tile walls.
2. Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
3. Stainless closer pieces, at sides of cooler walls -to cooler walls.
a. Stainless or aluminum plate closure pieces to diamond plate at cooler walls.
b. Damond plate panel seam joints.
c. Diamond plate perimeter to cooler walls.
d. Base of diamond plate to quarry tile cove base.
e. Stainless closure panel, at top of cooler walls, to cooler walls.
f. Top of quarry tile cove base to cooler walls at inside of cooler.
g. Cooler wall/diamond plate penetrations.
h. Cooler door hinges and handles to diamond plate. DO NOT caulk door locking unit.
i. Stainless wrap at hollow metal door frame.
j. Stainless mop surround to stainless corners on mop sink.
k. Base of stainless corner pieces to schlutter strip at base.
l. Exit door threshold perimeters. To frame and floor, interior and exterior.
4. Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
a. Base of hollow metal door jambs to quarry tile floor

B. Managers Office:
1. Provide a continuous bead of white GE SCS1700 silicone at the following locations:
a. Ceiling grid to FRP wall panels.
b. Perimeter of manager's desk to FRP wall panels.
c. Hollow metal door frame to FRP wall panels.
d. Top and ends of coat hanger bracket to FRP walls.
e. Base of FRP wall panels to quarry tile base.
f. Ceiling tile wire/pipe penetrations.
g. FRP inside corners to FRP wall panels. Both sides of corner piece.
h. Base of FRP wall panels to quarry tile.
2. Provide a continuous bead of black or light bronze (use color of safe) GE SCS2000 silicone at the following locations:
a.

C. Cooking Area:
1. Provide a continuous bead of white GE SCS1700 silicone at the following locations:
a. Top of wall tile to sheetrock ceiling.
b. Ceiling diffusers perimeters to sheetrock ceiling.
c. Ceiling pipe penetrations.
d. Wall tile to aluminum walk thru surround.
e. Tile wall penetrations/escutcheons perimeters.
f. FRP wall panels to sheetrock ceilings.
g. FRP wall panels to aluminum end wall plates.
h. FRP inside corners to FRP wall panels. Both sides of corner piece.
i. Sink to white wall tile.
j. Paper towel dispenser/soap dispenser to white tile.
k. POS/Serving counter to wall tile.
l. Stainless shelf behind grill to wall tile.
m. Faucets to ceramic wall tile.
2. Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
a. Joint between hood and closure skirt.
b. Joint between hood support and hood. Both sides.
c. Connection joint between stainless shelf behind grill.
d. Hood to tile walls & sheetrock ceiling.
e. Hood gusset to wall tile on both sides.
f. Sink to bronze wall tile.
g. Paper towl dispenser/soap dispenser to bronze tile.
h. DML counter to bronze tile.
3. Provide a continuous bead of dark gray GE SCS2000 at the following locations:
a. Base of equipment to concrete curbs/quarry tile.
4. Provide a continuous bead of bronze GE SCS2097 at the following locations:
a. Ceramic tile inside corners.
b. Ceramic tile to aluminum end wall plates.

D. Restrooms:
1. Provide a continuous bead of white GE SCS1700 silicone at the following locations:
a. Top of FRP to sheetrock ceiling or top of FRP trim to sheetrock wall.
b. Perimeter of toilets/urinals to floor or FRP.
c. Perimeter of mirror to FRP.
d. Sink to wall.
e. Perimeter of paper towel/garbage unit to wall.
f. Toilet paper/napkin disposals units to walls.
g. Stainless shelf to wall.
h. Wall penetrations under sink and or escutcheons to perimeters.
i. Hollow metal door frames to FRP.
j. Base of FRP wall panels to top of wall base.
k. FRP inside corners to FRP wall panels.
2. Provide a continuous bead of black GE SCS2000 silicone at the following locations:
a. Base of black rubber wall base to floor.
3. Provide a continuous bead of dark gray GE SCS2000 silicone at the following locations:
a. Base of hollow metal door frames to floor.

E. Dining area:
1. Provide a continuous bead of white GE SCS1700 silicone at the following locations:
a. Wall tile to sheetrock walls.
b. Perimeter of aluminum storefront/windows/entrances to sheetrock walls.
c. Wainscot wall panels (Stonewood or other) to painted walls.
d. Diffuser/louvers perimeters to sheetrock walls.
e. Hollow metal door frames to painted walls -if needed.
f. Frame of service line counter to tile (joint to be caulked behind front face panels of counter).
g. Wall tile at serving line wall to POS counter.
2. Provide a continuous bead of black GE SCS2000 silicone at the following locations:
a. Base of black rubber to floor (concrete or quarry tile) and gyp. bd. wall.
b. Wainscot (Stonewood or other) wall panels to sill of aluminum storefront/ windows.
c. Vertical joints of wainscot (Stonewood or other) wall panels to frames/painted walls/tile (ONLY if joint is uneven or plywood is showing).
d. Stonewood panels at serve line.
3. Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
a. Base of garbage surround to floor.
4. Provide a continuous bead of Dow 795 silicone at the following locations:
a. 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:
1. Provide a continuous bead of aluminum GE SCS1009 silicone at the following locations:
a. Stainless countertop to backsplash. Horizontal & vertical joints.
b. Base of Coke machine to countertop.
c. Perimeter of tea drain tray to countertop.
d. Stainless backsplash to white tile walls/painted walls.
2. Provide a continuous bead of white GE SCS1700 silicone at the following locations:
a. Coke line bundle to PVC cap.

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

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

END OF SECTION 07 92 00

SECTION 08 11 13 - HOLLOW METAL DOORS AND FRAMES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes:
1. Interior standard steel doors and frames.
2. Interior custom hollow-metal doors and frames.

1.3 DEFINITIONS

A. Minimum Thickness: Minimum thickness of base metal without coatings according to NAAMM HMMA 803 or ANSI A250.8.

1.4 REFERENCES

A. American National Standards Institute (ANSI):
1. ANSI A123.1 Nomenclature for Steel Doors and Steel Door Frames
2. ANSI A224.1 Test Procedure and Acceptance Criteria for Prime Painted Steel Surfaces for Steel Doors and Frames
3. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
4. 2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
5. Accelerated Physical Endurance Test Procedure for Steel Doors, Frames, and Frame Anchors

B. Door & Hardware Institute (DHI):
1. DHI A115 Series for Steel Door Preparation Standards

C. National Fire Protection Association (NFPA):
1. NFPA 80 Fire Doors and Windows

D. Steel Door Institute (SDI):
1. SDI A250.8-03 Recommended Specifications for Standard Steel Doors and Frames
2. SDI A250.11-01 Recommended Erection Instructions for Steel Frames
3. SDI A250.6-03 Door Hardware on Steel Doors (Reinforcement-Application)
4. SDI 110-09 Standard Steel Doors and Frames for Modular Masonry Construction
5. SDI 111 Recommended Selection & Usage Guide for Standard Steel Doors, Frames and Accessories
6. SDI 122-99 " Installation for Standard Steel doors and Frames
7. SDI 128 Guidelines for Acoustical Performance of Standard Steel Doors and Frames
8. SDI 117 Manufacturing Tolerances, Standard Steel Doors and Frames
9. SDI 118 Basic Fire Door Requirements

1.5 COORDINATION

A. Coordinate anchorage installation for hollow-metal frames. Furnish setting drawings, templates, and directions for installing anchorages, including sleeves, concrete inserts, anchor bolts, and items with integral anchors. Deliver such items to Project site in time for installation.

B. Coordinate requirements for installation of door hardware, electrified door hardware, and access control and security systems.

1.6 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.7 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Include construction details, material descriptions, core descriptions, fire-resistance ratings, and finishes.

B. Shop Drawings: Include the following:
1. Elevations of each door type.
2. Details of doors, including vertical- and horizontal-edge details and metal thicknesses.
3. Frame details for each frame type, including dimensioned profiles and metal thicknesses.
4. Locations of reinforcement and preparations for hardware.
5. Details of each different wall opening condition.
6. Details of electrical raceway and preparation for electrified hardware, access control systems, and security systems.
7. Details of anchorages, joints, field splices, and connections.

Consultant:

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8. Details of accessories.
9. Details of moldings, removable stops, and glazing.

C. Samples for Verification:
1. Finishes: For each type of exposed finish required, prepared on Samples of not less than 3 inches by 5 inches.

D. Reports and Certificates:
1. Submit certified test reports from an independent testing laboratory of sound transmission class (STC) ratings for acoustical door assemblies.
2. Submit certificates of inspection as required for fire-rated doors.

E. Product Schedule: For hollow-metal doors and frames, prepared by or under the supervision of supplier, using same reference numbers for details and openings as those on Drawings. Coordinate with final door hardware schedule.

1.8 QUALITY ASSURANCE

A. Manufacturing Standards: Comply with applicable requirements of SDI 100.

B. Manufacturing Tolerances: Comply with applicable requirements of DHI A115 and SDI 117.

C. Acoustical Doors and Frames: Comply applicable requirements of DHI A115, SDI 100 and SDI 114. Sound transmission class (STC) ratings shall be based on door-and-frame assemblies tested in accordance with ASTM E90.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver hollow-metal doors and frames palletized, packaged, or crated to provide protection during transit and Project-site storage. Do not use nonvented plastic.
1. Provide additional protection to prevent damage to factory-finished units.

B. Deliver welded frames with two removable spreader bars across bottom of frames, tack welded to jambs and mullions.

C. Store hollow-metal doors and frames vertically under cover at Project site with head up. Place on minimum 4 inch- high wood blocking. Provide minimum 1/4 inch space between each stacked door to permit air circulation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. Ceco Door Products; an ASSA ABLOY Group Company.
2. CURRIES Company; an ASSA ABLOY Group Company.
3. de LaFontaine.
4. Mesker Door Inc.
5. Pioneer Industries, Inc.
6. Philipp Manufacturing Company.
7. Republic Builders Products Company.
8. Steelcraft; an Allegion (formerly Ingersoll-Rand) company.c

2.2 PERFORMANCE REQUIREMENTS

A. Smoke- and Draft-Control Door Assemblies: Listed and labeled for smoke and draft control by a qualified testing agency acceptable to authorities having jurisdiction, based on testing according to UL 1784 and installed in compliance with NFPA 105.

B. Acoustical Doors: Provide acoustical doors where indicated of full flush type in accordance with DHI A115 and SDI 100. Provide door and frame assembly with sound transmission class (STC) rating as indicated when tested in accordance with SDI 114. Door and frame units shall be complete with necessary seals and rubber gasketing to achieve the rating.

2.3 INTERIOR STANDARD STEEL DOORS AND FRAMES

A. Construct hollow-metal doors and frames to comply with standards indicated for materials, fabrication, hardware locations, hardware reinforcement, tolerances, and clearances, and as specified.

B. Heavy-Duty Doors and Frames: ANSI A250.8, Level 2; ANSI A250.4, Level B. At locations indicated in the Door and Frame Schedule.
1. Doors:
a. Type: As indicated in the Door and Frame Schedule.
b. Thickness: 1-3/4 inches.
c. Face: Uncoated steel sheet, minimum thickness of 0.042 inch.
d. Edge Construction: Model 2, Seamless.
e. Edge Bevel: Provide manufacturer's standard beveled or square edges.
f. Core: Manufacturer's standard kraft-paper honeycomb, polystyrene, polyurethane, polyisocyanurate, mineral-board, or vertical steel-stiffener core that produces doors complying with ANSI A250.8.
g. Fire-Rated Core: As required to provide fire-protection and temperature-rise ratings indicated.

C. Extra-Heavy-Duty Doors and Frames: ANSI A250.8, Level 3; ANSI A250.4, Level A. At locations indicated in the Door and Frame Schedule.
1. Doors:
a. Type: As indicated in the Door and Frame Schedule.
b. Thickness: 1-3/4 inches.
c. Face: Uncoated steel sheet, minimum thickness of 16 gage, cold-rolled, ASTM A1008.
d. Edge Construction: Model 2, Seamless.
e. Edge Bevel: Provide manufacturer's standard beveled or square edges.
f. Core: Manufacturer's standard kraft-paper honeycomb, polystyrene, polyurethane, polyisocyanurate, mineral-board, or vertical steel-stiffener core that produces doors complying with ANSI A250.8.
g. Fire-Rated Core: As required to provide fire-protection and temperature-rise ratings indicated.
2. Frames:
a. Materials: Uncoated steel sheet, minimum thickness of 16 gage, cold-rolled, ASTM A1008.
b. Sidelite and Transom Frames: Fabricated from same thickness material as adjacent door frame.
c. Construction: Full profile welded.
3. Exposed Finish: Prime.

2.4 FRAME ANCHORS

A. Jamb Anchors:
1. Type: Anchors of minimum size and type required by applicable door and frame standard, and suitable for performance level indicated.
2. Quantity: Minimum of three anchors per jamb, with one additional anchor for frames with no floor anchor. Provide one additional anchor for each 24 inches of frame height above 7 feet.
3. Postinstalled Expansion Anchor: Minimum 3/8 inch- diameter bolts with expansion shields or inserts, with manufacturer's standard pipe spacer.

B. Floor Anchors: Provide floor anchors for each jamb and mullion that extends to floor.

C. Floor Anchors for Concrete Slabs with Underlayment: Adjustable-type anchors with extension clips, allowing not less than 2 inch height adjustment. Terminate bottom of frames at top of underlayment.

D. Material: ASTM A879/A879M, Commercial Steel (CS), 04Z (12G) coating designation; mill phosphatized.
1. For anchors built into exterior walls, steel sheet complying with ASTM A1008/A1008M or ASTM A1011/A1011M; hot-dip galvanized according to ASTM A153/A153M, Class B.

2.5 MATERIALS

A. Recycled Content of Steel Products: Postconsumer recycled content plus one-half of preconsumer recycled content not less than 25 percent.

B. Cold-Rolled Steel Sheet: ASTM A1008/A1008M, Commercial Steel (CS), Type B; suitable for exposed applications.

C. Inserts, Bolts, and Fasteners: Hot-dip galvanized according to ASTM A153/A153M.

D. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hollow-metal frames of type indicated.

E. Mineral-Fiber Insulation: ASTM C665, Type I (blankets without membrane facing); consisting of fibers manufactured from slag or rock wool; with maximum flame-spread and smoke-developed indexes of 25 and 50, respectively; passing ASTM E136 for combustion characteristics.

F. Glazing: Comply with requirements in Section 08 80 00 - Glazing.

2.6 FABRICATION

A. Door Astragals: Provide overlapping astragal on one leaf of pairs of doors where required by NFPA 80 for fire-performance rating or where indicated. Extend minimum 3/4 inch beyond edge of door on which astragal is mounted or as required to comply with published listing of qualified testing agency.

B. Hollow-Metal Frames: Fabricate in one piece except where handling and shipping limitations require multiple sections. Where frames are fabricated in sections, provide alignment plates or angles at each joint, fabricated of metal of same or greater thickness as frames.
1. Provide countersunk, flat- or oval-head exposed screws and bolts for exposed fasteners unless otherwise indicated.
2. Door Silencers: Except on weather-stripped frames, drill stops to receive door silencers as follows. Keep holes clear during construction.
a. Single-Door Frames: Drill stop in strike jamb to receive three door silencers.
b. Double-Door Frames: Drill stop in head jamb to receive two door silencers.

C. Hardware Preparation: Factory prepare hollow-metal doors and frames to receive templated mortised hardware, and electrical wiring; include cutouts, reinforcement, mortising, drilling, and tapping according to ANSI A250.6, the Door Hardware Schedule, and templates.
1. Reinforce doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.
2. Comply with BHMA A156.115 for preparing hollow-metal doors and frames for hardware.

D. Glazed Lites: Provide stops and moldings around glazed lites where indicated. Form corners of stops and moldings with butted or mitered hairline joints.
1. Provide stops and moldings flush with face of door, and with beveled stops unless otherwise indicated.
2. Multiple Glazed Lites: Provide fixed and removable stops and moldings so that each glazed lite is capable of being removed independently.
3. Provide fixed frame moldings on outside of exterior and on secure side of interior doors and frames. Provide loose stops and moldings on inside of hollow-metal doors and frames.
4. Coordinate rabbet width between fixed and removable stops with glazing and installation types indicated.
5. Provide stops for installation with countersunk flat- or oval-head machine screws spaced uniformly not more than 9 inches o.c. and not more than 2 inches o.c. from each corner.

2.7 STEEL FINISHES

A. Prime Finish: Clean, pretreat, and apply manufacturer's standard primer.
1. Shop Primer: Manufacturer's standard, fast-curing, lead- and chromate-free primer complying with ANSI A250.10; recommended by primer manufacturer for substrate; compatible with substrate and field-applied coatings despite prolonged exposure.
2. Refer to Section 09 91 23 - Interior Painting for field-applied coating.

PART 3 EXECUTION

3.1 PREPARATION

A. Remove welded-in shipping spreaders installed at factory. Restore exposed finish by grinding, filling, and dressing, as required to make repaired area smooth, flush, and invisible on exposed faces. Touch up factory-applied finishes where spreaders are removed.
B. Drill and tap doors and frames to receive nontemplated, mortised, and surface-mounted door hardware.

3.2 INSTALLATION

A. Install hollow-metal doors and frames plumb, rigid, properly aligned, and securely fastened in place. Comply with approved Shop Drawings and with manufacturer's written instructions.

B. Hollow-Metal Frames: Comply with ANSI A250.11.
1. Set frames accurately in position; plumbed, aligned, and braced securely until permanent anchors are set. After wall construction is complete, remove temporary braces without damage to completed Work.
a. Where frames are fabricated in sections, field splice at approved locations by welding face joint continuously; grind, fill, dress, and make splice smooth, flush, and invisible on exposed faces. Touch-up finishes.
b. Install frames with removable stops located on secure side of opening.
2. Floor Anchors: Secure with postinstalled expansion anchors.
a. Floor anchors may be set with power-actuated fasteners instead of postinstalled expansion anchors if so indicated and approved on Shop Drawings.
3. Metal-Stud Partitions: Solidly pack insulation inside frames.
4. Masonry Walls: Coordinate installation of frames to allow for solidly filling space between frames and masonry with insulation or grout.
5. In-Place Concrete or Masonry Construction: Secure frames in place with postinstalled expansion anchors. Countersink anchors, and fill and make smooth, flush, and invisible on exposed faces.
6. Installation Tolerances: Adjust hollow-metal frames to the following tolerances:
a. Squareness: Plus or minus 1/16 inch, measured at door rabbet on a line 90 degrees from jamb perpendicular to frame head.
b. Alignment: Plus or minus 1/16 inch, measured at jambs on a horizontal line parallel to plane of wall.
c. Twist: Plus or minus 1/16 inch, measured at opposite face corners of jambs on parallel lines, and perpendicular to plane of wall.
d. Plumbness: Plus or minus 1/16 inch, measured at jambs at floor.

C. Hollow-Metal Doors: Fit and adjust hollow-metal doors accurately in frames, within clearances specified below.
1. Non-Fire-Rated Steel Doors: Comply with ANSI A250.8.
2. Smoke-Control Doors: Install doors according to NFPA 105.

D. Glazing: Comply with installation requirements in Section 08 80 00 - Glazing and with hollow- metal manufacturer's written instructions.

3.3 REPAIR

A. Prime-Coat Touchup: Immediately after erection, sand smooth rusted or damaged areas of prime coat and apply touchup of compatible air-drying, rust-inhibitive primer.

B. Metallic-Coated Surface Touchup: Clean abraded areas and repair with galvanizing repair paint according to manufacturer's written instructions.

C. Factory-Finish Touchup: Clean abraded areas and repair with same material used for factory finish according to manufacturer's written instructions.

D. Touchup Painting: Cleaning and touchup painting of abraded areas of paint are specified in painting Sections.

END OF SECTION 08 11 13

SECTION 08 83 00 - MIRRORS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes the following types of silvered flat glass mirrors:
1. Annealed monolithic glass mirrors.

B. Related Requirements:
1. Section 08 80 00 - Glazing for glass with reflective coatings used for vision and spandrel lites.
2. Section 10 28 00 - Toilet Room Accessories for metal-framed mirrors.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Mirrors. Include description of materials and process used to produce each type of silvered flat glass mirror specified that indicates sources of glass, glass coating components, edge sealer, and quality-control provisions.

B. Shop Drawings: Include mirror elevations, edge details, mirror hardware, and attachment details.

C. Samples: For each type of the following:
1. Mirrors: 12 inches square, including edge treatment on two adjoining edges.
2. Mirror Clips: Full size.
3. Mirror Trim: 12 inches long.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Certificates: For each type of mirror and mirror mastic.

C. Preconstruction Test Reports: From mirror manufacturer indicating that mirror mastic was tested for compatibility and adhesion with mirror backing and substrates on which mirrors are installed.

D. Sample Warranty: For special warranty.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For mirrors to include in maintenance manuals.

1.6 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer with a minimum of 2 years documented experience with projects of similar size and complexity.

1.7 PRECONSTRUCTION TESTING

A. Preconstruction Mirror Mastic Compatibility Test: Submit mirror mastic products to mirror manufacturer for testing to determine compatibility of mastic with mirror backing.
1. Testing is not required if data are submitted based on previous testing of mirror mastic products and mirror backing matching those submitted.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Protect mirrors according to mirror manufacturer's written instructions and as needed to prevent damage to mirrors from moisture, condensation, temperature changes, direct exposure to sun, or other causes.

B. Comply with mirror manufacturer's written instructions for shipping, storing, and handling mirrors as needed to prevent deterioration of silvering, damage to edges, and abrasion of glass surfaces and applied coatings. Store indoors.

1.9 FIELD CONDITIONS

A. Environmental Limitations: Do not install mirrors until ambient temperature and humidity conditions are maintained at levels indicated for final occupancy.

1.10 WARRANTY

A. Special Warranty: Manufacturer agrees to replace mirrors that deteriorate within specified warranty period. Deterioration of mirrors is defined as defects developed from normal use that are not attributed to mirror breakage or to maintaining and cleaning mirrors contrary to manufacturer's written instructions. Defects include discoloration, black spots, and clouding of the silver film.
1. Warranty Period: Five years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

2.2 MANUFACTURERS

A. Source Limitations for Mirrors: Obtain mirrors from single source from single manufacturer.

B. Source Limitations for Mirror Accessories: Obtain mirror glazing accessories from single source.

2.3 SILVERED FLAT GLASS MIRRORS

A. Mirrors, General: ASTM C1503; manufactured using copper-free, low-lead mirror coating process.

2.4 MISCELLANEOUS MATERIALS

A. Setting Blocks: Elastomeric material with a Shore, Type A durometer hardness of 85, plus or minus 5.

B. Edge Sealer: Coating compatible with glass coating and approved by mirror manufacturer for use in protecting against silver deterioration at mirrored glass edges.

C. Film Backing for Safety Mirrors: Film backing and pressure-sensitive adhesive; both compatible with mirror backing paint as certified by mirror manufacturer.

2.5 MIRROR HARDWARE

A. Aluminum J-Channels: Aluminum extrusions with a return deep enough to produce a glazing channel to accommodate mirrors of thickness indicated and in lengths required to cover edges of mirrors in a single piece.
1. Bottom and Side Trim: J-channels formed with front leg and back leg not less than 3/8 inch and 7/8 inch in height, respectively, and a thickness of not less than 0.04 inch.
2. Top Trim: J-channels formed with front leg and back leg not less than 5/8 inch and 1 inch in height, respectively, and a thickness of not less than 0.04 inch.
3. Finish: Clear bright anodized.

B. Plated Steel Hardware: Formed-steel shapes with plated finish indicated.
1. Profile: As indicated.

C. Fasteners: Fabricated of same basic metal and alloy as fastened metal and matching it in finished color and texture where fasteners are exposed.

D. Anchors and Inserts: Provide devices as required for mirror hardware installation. Provide toothed or lead-shield, expansion-bolt devices for drilled-in-place anchors. Provide galvanized anchors and inserts for applications on inside face of exterior walls and where indicated.

2.6 FABRICATION

A. Fabricate mirrors in the shop to greatest extent possible.

B. Fabricate cutouts for notches and holes in mirrors without marring visible surfaces. Locate and size cutouts so they fit closely around penetrations in mirrors.

C. Mirror Edge Treatment: Flat polished.
1. Seal edges of mirrors with edge sealer after edge treatment to prevent chemical or atmospheric penetration of glass coating.
2. Require mirror manufacturer to perform edge treatment and sealing in factory immediately after cutting to final sizes.

D. Film-Backed Safety Mirrors: Apply film backing with adhesive coating over mirror backing paint, as recommended in writing by film-backing manufacturer, to produce a surface free of bubbles, blisters, and other imperfections.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, over which mirrors are to be mounted, with Installer present, for compliance with installation tolerances, substrate preparation, and other conditions affecting performance of the Work.

B. Verify compatibility with and suitability of substrates, including compatibility of existing finishes or primers with mirror mastic.

C. Proceed with installation only after unsatisfactory conditions have been corrected and surfaces are dry.

3.2 INSTALLATION

A. General: Install mirrors to comply with mirror manufacturer's written instructions and with referenced GANA publications. Mount mirrors accurately in place in a manner that avoids distorting reflected images.
1. GANA Publications: "Laminated Glazing Reference Manual," "Glazing Manual" and "Mirrors, Handle with Extreme Care: Tips for the Professional on the Care and Handling of Mirrors."

B. Provide a minimum airspace of 1/8 inch between back of mirrors and mounting surface for air circulation between back of mirrors and face of mounting surface.

C. Install mirrors with mirror hardware. Attach mirror hardware securely to mounting surfaces with mechanical fasteners installed with anchors or inserts as applicable. Install fasteners so heads do not impose point loads on backs of mirrors.
1. Aluminum J-Channels: Provide setting blocks 1/8 inch thick by 4 inches long at quarter points. To prevent trapping water, provide, between setting blocks, two slotted weeps not less than 1/4 inch wide by 3/8 inch long at bottom channel.
2. Aluminum J-Channels and Cleat: Fasten J-channel directly to wall and attach top trim to continuous cleat fastened directly to wall.
3. Mirror Clips: Place a felt or plastic pad between mirror and each clip to prevent spalling of mirror edges. Locate clips so they are symmetrically placed and evenly spaced.

3.3 CLEANING AND PROTECTION

A. Protect mirrors from breakage and contaminating substances resulting from construction operations.

B. Do not permit edges of mirrors to be exposed to standing water.

C. Maintain environmental conditions that prevent mirrors from being exposed to moisture from condensation or other sources for continuous periods of time.

D. Clean exposed surface of mirrors not more than four days before date scheduled for inspections that establish date of Substantial Completion. Clean mirrors as recommended in writing by mirror manufacturer.

END OF SECTION 08 83 00

SECTION 09 22 16 - NON-STRUCTURAL METAL FRAMING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Non-load-bearing steel framing systems for interior partitions.
2. Suspension systems for interior ceilings and soffits.
3. Grid suspension systems for gypsum board ceilings.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Substitution Procedures: Substitutions for assemblies specified in this section will be considered only after all substitution procedures following section 012500 Substitution Procedures and conditions listed in drawing notes are fully met. Requests are to include stamped documentation by a qualified engineer licensed to practice within the project jurisdiction which show the proposed substitution is equal and meets all performance properties specified.

1.4 INFORMATIONAL SUBMITTALS

A. Product Certificates: For each type of code-compliance certification for studs and tracks.

B. Evaluation Reports: From ICC-ES or other qualified testing agency acceptable to authorities having jurisdiction. For the following:
1. Embossed, high-strength steel studs and tracks.
2. Firestop tracks.
3. Post-installed anchors.
4. Power-actuated fasteners.

1.5 QUALITY ASSURANCE

A. Code-Compliance Certification of Studs and Tracks: Provide documentation that framing members are certified according to the product-certification program of the Certified Steel Stud Association, the Steel Framing Industry Association, or the Steel Stud Manufacturers Association.

B. Where used, EQ products need to be Code Compliant. EQ stud manufacturer must be certified under ICC-ES AC86 (See AISI S220-15/F1 Commentary).

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For fire-resistance-rated assemblies that incorporate non- load-bearing steel framing, provide materials and construction identical to those tested in assembly indicated, according to ASTM E119 by an independent testing agency.

B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated on Drawings, according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.

C. Horizontal Deflection: For gypsum board assemblies without applied rigid finishes L/240; for gypsum board assemblies with applied rigid finishes such as tile, stone, wood paneling L/360.

D. Design of light gauge non-structural members shall be in accordance with AISI 220-15

E. Load Limitations: (AISI S220-15/A.1)
1. Out-of-plane load not greater than 10 psf (15psf for pressurized air plenums, ceilings, and elevator shaft enclosures).
2. Axial live load not greater than 100 plf (excluding sheathing materials).
3. Superimposed axial load no greater than 200 lbs.

2.2 FRAMING SYSTEMS

A. Framing Members, General: Comply with ASTM C754 for conditions indicated.
1. Steel Sheet Components: Comply with ASTM C645 requirements for steel unless otherwise indicated.ASTM A653/A653M
2. Protective Coating: Coating with equivalent corrosion resistance of ASTM A653/A653M, G40 (Z120), hot-dip galvanized unless otherwise indicated per AISIS S220-15/A.5.1.

B. Studs and Tracks: ASTM C645.
1. Steel Studs and Tracks:
a. Minimum Base-Steel Thickness: Manufacturer's standard thicknesses that comply with structural performance requirements for stud depth indicated, unless otherwise indicated.
b. Depth: As indicated on Drawings.

C. Slip-Type Head Joints: Where indicated, provide one of the following:
1. Single Long-Leg Track System: ASTM C645 top track with 2 inch- deep flanges in thickness not less than indicated for studs, installed with studs friction fit into top track and with continuous bridging located within 12 inches of the top of studs to provide lateral bracing.
2. Double-Track System: ASTM C645 top outer tracks, inside track with 2 inch- deep flanges in thickness not less than indicated for studs and fastened to studs, and outer track sized to friction-fit over inner track.
3. Deflection Track: Steel sheet top track manufactured to prevent cracking of finishes applied to interior partition framing resulting from deflection of structure above; in thickness not less than indicated for studs and in width to accommodate depth of studs.

D. Firestop Tracks: Top track manufactured to allow partition heads to expand and contract with movement of structure while maintaining continuity of fire-resistance-rated assembly indicated; in thickness not less than indicated for studs and in width to accommodate depth of studs.

Consultant:

INTERIOR ARCHITECTS

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ARCHITECTURAL SPECIFICATIONS

G024

E. Flat Strap and Backing Plate: Steel sheet for blocking and bracing in length and width indicated.
1. Minimum Base-Steel Thickness: 0.0329 inch, unless otherwise indicated.

F. Cold-Rolled Channel Bridging: Steel, 0.0538 inch minimum base-steel thickness, with minimum 1/2 inch- wide flanges.
1. Depth: 1-1/2 inches.
2. Clip Angle: Not less than 1-1/2 inches by 1-1/2 inches, 0.068 inch- thick, galvanized steel.

G. Hat-Shaped, Rigid Furring Channels: ASTM C645.
1. Minimum Base-Steel Thickness: 0.0329 inch.
2. Depth: 1-1/2 inches.

H. Resilient Furring Channels: 1/2 inch- deep, steel sheet members designed to reduce sound transmission.
1. Configuration: Asymmetrical.

I. Z-Shaped Furring: With slotted or nonslotted web, face flange of 1-1/4 inches, wall attachment flange of 7/8 inch, minimum uncoated-steel thickness of 0.0179 inch, and depth required to fit insulation thickness indicated.

J. Isolation Strip at Exterior Walls: Adhesive-backed, closed-cell vinyl foam strips that allow fastener penetration without foam displacement, 1/8 inch thick, in width to suit steel stud size.

K. Fasteners for Metal Framing: Of type, material, size, corrosion resistance, holding power, and other properties required to fasten steel members to substrates. EQ products shall have data published for fastener test requirements (Screw Penetration Test) per AISIS 220-15/F.3).

2.3 SUSPENSION SYSTEMS

A. Tie Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.062 inch- diameter wire, or double strand of 0.048 inch- diameter wire.

B. Hanger Attachments to Concrete:
1. Post-Installed Anchors: Fastener systems with an evaluation report acceptable to authorities having jurisdiction, based on ICC-ES AC01, ICC-ES AC193, ICC-ES AC58, or ICC-ES AC308 as appropriate for the substrate.
a. Uses: Securing hangers to structure.
b. Material for Interior Locations: Carbon-steel components zinc-plated to comply with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5, unless otherwise indicated.

C. Wire Hangers: ASTM A641/A641M, Class 1 zinc coating, soft temper, 0.16 inch in diameter.

D. Carrying Channels (Main Runners): Cold-rolled, commercial-steel sheet with a base-steel thickness of 0.0538 inch and minimum 1/2 inch- wide flanges with depth as required for span and loading and indicated on Drawings.

E. Furring Channels (Furring Members): 0.0538 inch uncoated-steel thickness, with minimum 1/2 inch- wide flanges, 3/4 inch deep.

F. Grid Suspension System for Gypsum Board Ceilings: ASTM C645, direct-hung system composed of main beams and cross-furring members that interlock.
1. Performance Requirements: Ceiling support system shall support a live load of 6 psf minimum at L/240.
2. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
3. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
4. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine areas and substrates, with Installer present, and including welded hollow-metal frames, cast-in anchors, and structural framing, for compliance with requirements and other conditions affecting performance of the Work.

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

3.2 PREPARATION

A. Suspended Assemblies: Coordinate installation of suspension systems with installation of overhead structure to ensure that inserts and other provisions for anchorages to building structure have been installed to receive hangers at spacing required to support the Work and that hangers will develop their full strength.
1. Furnish concrete inserts and other devices indicated to other trades for installation in advance of time needed for coordination and construction.

B. Coordination with Sprayed Fire-Resistive Materials:
1. Before sprayed fire-resistive materials are applied, attach offset anchor plates or ceiling tracks to surfaces indicated to receive sprayed fire-resistive materials. Where offset anchor plates are required, provide continuous plates fastened to building structure not more than 24 inches o.c.
2. After sprayed fire-resistive materials are applied, remove them only to extent necessary for installation of non-load-bearing steel framing. Do not reduce thickness of fire-resistive materials below that are required for fire-resistance ratings indicated. Protect adjacent fire- resistive materials from damage.

3.3 INSTALLATION, GENERAL

A. Installation Standard: ASTM C754.
1. Gypsum Plaster Assemblies: Also comply with requirements in ASTM C841 that apply to framing installation.
2. Portland Cement Plaster Assemblies: Also comply with requirements in ASTM C1063 that apply to framing installation.
3. Plaster Assemblies: Also comply with requirements in ASTM C844 that apply to framing installation.
4. Gypsum Board Assemblies: Also comply with requirements in ASTM C840 that apply to framing installation.

B. Install framing and accessories plumb, square, and true to line, with connections securely fastened.

C. Install supplementary framing, and blocking to support fixtures, equipment services, heavy trim, grab bars, toilet accessories, furnishings, or similar construction.

D. Install bracing at terminations in assemblies.

E. Do not bridge building control and expansion joints with non-load-bearing steel framing members. Frame both sides of joints independently.

3.4 INSTALLING FRAMED ASSEMBLIES

A. Install framing system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

B. Where studs are installed directly against exterior masonry walls or dissimilar metals at exterior walls, install isolation strip between studs and exterior wall.

C. Install studs so flanges within framing system point in same direction.

D. Install tracks at floors and overhead supports. Extend framing full height to structural supports or substrates above suspended ceilings except where partitions are indicated to terminate at suspended ceilings. Continue framing around ducts that penetrate partitions above ceiling.
1. Slip-Type Head Joints: Where framing extends to overhead structural supports, install to produce joints at tops of framing systems that prevent axial loading of finished assemblies.
2. Door Openings: Screw vertical studs at jambs to jamb anchor clips on door frames; install track section (for cripple studs) at head and secure to jamb studs.
a. Install two studs at each jamb unless otherwise indicated.
b. Install cripple studs at head adjacent to each jamb stud, with a minimum 1/2 inch clearance from jamb stud to allow for installation of control joint in finished assembly.
c. Extend jamb studs through suspended ceilings and attach to underside of overhead structure.
3. Other Framed Openings: Frame openings other than door openings the same as required for door openings unless otherwise indicated. Install framing below sills of openings to match framing required above door heads.
4. Fire-Resistance-Rated Partitions: Install framing to comply with fire-resistance-rated assembly indicated and support closures and to make partitions continuous from floor to underside of solid structure.
a. Firestop Track: Where indicated, install to maintain continuity of fire-resistance-rated assembly indicated.
5. Sound-Rated Partitions: Install framing to comply with sound-rated assembly indicated.
6. Curved Partitions:
a. Bend track to uniform curve and locate straight lengths so they are tangent to arcs.
b. Begin and end each arc with a stud, and space intermediate studs equally along arcs. On straight lengths of no fewer than two studs at ends of arcs, place studs 6 inches o.c.

E. Direct Furring:
1. Screw to wood framing.
2. Attach to concrete or masonry with stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.

F. Z-Shaped Furring Members:
1. Erect insulation, specified in Section 07 21 00 - Thermal Insulation, vertically and hold in place with Z-shaped furring members spaced 24 inches o.c.
2. Except at exterior corners, securely attach narrow flanges of furring members to wall with concrete stub nails, screws designed for masonry attachment, or powder-driven fasteners spaced 24 inches o.c.
3. At exterior corners, attach wide flange of furring members to wall with short flange extending beyond corner; on adjacent wall surface, screw-attach short flange of furring channel to web of attached channel. At interior corners, space second member no more than 12 inches from corner and cut insulation to fit.

G. Installation Tolerance: Install each framing member so fastening surfaces vary not more than 1/8 inch from the plane formed by faces of adjacent framing.

3.5 INSTALLING CEILING SUSPENSION SYSTEMS

A. Install suspension system components according to spacings indicated, but not greater than spacings required by referenced installation standards for assembly types.

B. Isolate suspension systems from building structure where they abut or are penetrated by building structure to prevent transfer of loading imposed by structural movement.

C. Suspend hangers from building structure as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structural or suspension system.
a. Splay hangers only where required to miss obstructions and offset resulting horizontal forces by bracing, counterspla ying, or other equally effective means.
2. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with locations of hangers required to support standard suspension system members, install supplemental suspension members and hangers in the form of trapezes or equivalent devices.
a. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced installation standards.
3. Wire Hangers: Secure by looping and wire tying, either directly to structures or to inserts, eye screws, or other devices and fasteners that are secure and appropriate for substrate, and in a manner that will not cause hangers to deteriorate or otherwise fail.
4. Flat Hangers: Secure to structure, including intermediate framing members, by attaching to inserts, eye screws, or other devices and fasteners that are secure and appropriate for structure and hanger, and in a manner that will not cause hangers to deteriorate or otherwise fail.
5. Do not attach hangers to steel roof deck.
6. Do not attach hangers to permanent metal forms. Furnish cast-in-place hanger inserts that extend through forms.
7. Do not attach hangers to rolled-in hanger tabs of composite steel floor deck.
8. Do not connect or suspend steel framing from ducts, pipes, or conduit.

D. Fire-Resistance-Rated Assemblies: Wire tie furring channels to supports.

E. Seismic Bracing: Sway-brace suspension systems with hangers used for support.

F. Grid Suspension Systems: Attach perimeter wall track or angle where grid suspension systems meet vertical surfaces. Mechanically join main beam and cross-furring members to each other and butt-cut to fit into wall track.

G. Installation Tolerances: Install suspension systems that are level to within 1/8 inch in 12 feet measured lengthwise on each member that will receive finishes and transversely between parallel members that will receive finishes.

END OF SECTION 09 22 16

SECTION 09 29 00 - GYPSUM BOARD

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Interior gypsum board.
2. Exterior gypsum board for ceilings and soffits.
3. Tile backing panels.
B. Related Requirements:
1. Section 06 10 00 - Rough Carpentry for gypsum sheathing for exterior walls.
2. Section 09 22 16 - Non-Structural Metal Framing for non-structural steel framing and suspension systems that support gypsum board panels.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Verification: For the following products:
1. Trim Accessories: Full-size Sample in 12 inch- long length for each trim accessory indicated.

1.4 QUALITY ASSURANCE

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".

B. Mockups: Build mockups of at least 100 sq. ft. in surface area to demonstrate aesthetic effects and to set quality standards for materials and execution.
1. Build mockups for the following:
a. Each level of gypsum board finish indicated for use in exposed locations.
2. Apply or install final decoration indicated, including painting and wallcoverings, on exposed surfaces for review of mockups.
3. Simulate finished lighting conditions for review of mockups.
4. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.5 DELIVERY, STORAGE AND HANDLING

A. Store materials inside under cover and keep them dry and protected against weather, condensation, direct sunlight, construction traffic, and other potential causes of damage. Stack panels flat and supported on risers on a flat platform to prevent sagging.

1.6 FIELD CONDITIONS

A. Environmental Limitations: Comply with ASTM C840 requirements or gypsum board manufacturer's written instructions, whichever are more stringent.
B. Do not install paper-faced gypsum panels until installation areas are enclosed and conditioned.
C. Do not install panels that are wet, moisture damaged, and mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain gypsum boards from single source from single manufacturer.

B. Basis of Design: United States Gypsum Company (USG), Website: www.usg.com.
1. Gypsum Board Panels: USG "Sheetrock" complying with ASTM C1396.
a. General use panels: Sheetrock Regular panels.
b. Fire rated panels: Sheetrock Firecode Core panels.
c. Water-resistant panels: Sheetrock Humitek panels.
d. Glass-Mat faced gypsum backing boards:
1. Georgia-Pacific, DensShield Fireguard Tile with ASTM C1178, Type X

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Resistance-Rated Assemblies: For fire-resistance-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E119 by an independent testing agency.

B. STC-Rated Assemblies: For STC-rated assemblies, provide materials and construction identical to those tested in assembly indicated according to ASTM E90 and classified according to ASTM E413 by an independent testing agency.

2.3 GYPSUM BOARD, GENERAL

A. Size: Provide maximum lengths and widths available that will minimize joints in each area and that correspond with support system indicated.

2.4 INTERIOR GYPSUM BOARD

A. Gypsum Wallboard: ASTM C1396/C1396M.
1. Thickness: 5/8 inch, unless noted otherwise in Drawings..
2. Long Edges: Tapered.

B. Gypsum Board, Type X: ASTM C1396/C1396M.
1. Thickness: 5/8 inch.
2. Long Edges: Tapered.

C. Abuse-Resistant Gypsum Board: ASTM C1396/C1396M gypsum board, tested according to ASTM C1629/C1629M.
1. Core: 5/8 inch, Type X.
2. Surface Abrasion: ASTM C1629/C1629M, meets or exceeds Level 1 requirements.
3. Indentation: ASTM C1629/C1629M, meets or exceeds Level 1 requirements.
4. Soft-Body Impact: ASTM C1629/C1629M, meets or exceeds Level 1 requirements.
5. Long Edges: Tapered.
6. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

D. Mold-Resistant Gypsum Board: ASTM C1396/C1396M. With moisture- and mold-resistant core and paper surfaces.
1. Core: 5/8 inch, Type X.
2. Long Edges: Tapered.
3. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.5 SPECIALTY GYPSUM BOARD

A. Gypsum Board, Type C: ASTM C1396/C1396M. Manufactured to have increased fire-resistive capability.
1. Thickness: As required by fire-resistance-rated assembly indicated on Drawings.
2. Long Edges: Tapered.

B. Glass-Mat Interior Gypsum Board: ASTM C1658/C1658M. With fiberglass mat laminated to both sides. Specifically designed for interior use.
1. Core: 5/8 inch, Type X.
2. Long Edges: Tapered.
3. Mold Resistance: ASTM D3273A, score of 10 as rated according to ASTM D3274.

C. Acoustically Enhanced Gypsum Board: ASTM C1396/C1396M. Multilayer products constructed of two layers of gypsum boards sandwiching a viscoelastic sound-absorbing polymer core.
1. Core: 5/8 inch, Type X.
2. Long Edges: Tapered.

2.6 TILE BACKING PANELS

A. Glass-Mat, Water-Resistant Backing Board: ASTM C1178/C1178M, with manufacturer's standard edges.
1. Core: 1/2 inch (12.7 mm), regular type.
2. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

B. Cementitious Backer Units: ANSI A118.9 and ASTM C1288 or ASTM C1325, with manufacturer's standard edges.
1. Thickness: As indicated in Drawings.
2. Mold Resistance: ASTM D3273, score of 10 as rated according to ASTM D3274.

2.7 CEMENT BOARD

A. Exterior Cement Board: ANSI A118.9
1. Basis of Design: USG Durock.
2. Core: 5/8 inch, Type X.
3. Manufacturer's standard width and maximum lengths available to minimize end-to-end butt joints.

2.8 TRIM ACCESSORIES

A. Interior Trim: ASTM C1047.
1. Basis of Design: United States Gypsum Company (USG), Website: HYPERLINK "http://www.usg.com/"www.usg.com.
2. Material: Galvanized or aluminum-coated steel sheet or rolled zinc.
3. Shapes:
a. Cornerbead.
b. LC-Bead: J-shaped; exposed long flange receives joint compound.
c. L-Bead: L-shaped; exposed long flange receives joint compound.
d. U-Bead: J-shaped; exposed short flange does not receive joint compound.
e. Expansion (control) joint.

B. Aluminum Trim: Extruded accessories of profiles and dimensions indicated.
1. Aluminum: Alloy and temper with not less than the strength and durability properties of ASTM B221 (ASTM B221M), Alloy 6063-T5.
2. Finish: Corrosion-resistant primer compatible with joint compound and finish materials specified.

2.9 JOINT TREATMENT MATERIALS

A. General: Comply with ASTM C475/C475M.
1. Basis of Design: USG Joint Treatment System, "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.

B. Joint Tape:
1. Interior Gypsum Board: Paper.
2. Tile Backing Panels: As recommended by panel manufacturer.

C. Joint Compound for Interior Gypsum Board: For each coat, use formulation that is compatible with other compounds applied on previous or for successive coats.
1. Prefilling: At open joints, rounded or beveled panel edges, and damaged surface areas, use setting-type taping compound.
2. Embedding and First Coat: For embedding tape and first coat on joints, fasteners, and trim flanges, use setting-type taping compound.
3. Fill Coat: For second coat, use setting-type, sandable topping compound.
4. Finish Coat: For third coat, use setting-type, sandable topping compound.
5. Skim Coat: For final coat of Level 5 finish, use setting-type, sandable topping compound.

D. Joint Compound for Tile Backing Panels:
1. Glass-Mat, Water-Resistant Backing Panel: As recommended by backing panel manufacturer.
2. Cementitious Backer Units: As recommended by backer unit manufacturer.

2.10 AUXILIARY MATERIALS

A. General: Provide auxiliary materials that comply with referenced installation standards and manufacturer's written instructions.

B. Laminating Adhesive: Adhesive or joint compound recommended for directly adhering gypsum panels to continuous substrate.

C. Steel Drill Screws: ASTM C1002 unless otherwise indicated.
1. Basis of Design: 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.
2. Use screws complying with ASTM C954 for fastening panels to steel members from 0.033 inch to 0.112 inch thick.
3. For fastening cementitious backer units, use screws of type and size recommended by panel manufacturer.

D. Sound-Attenuation Blankets: ASTM C665, Type I (blankets without membrane facing) produced by combining thermosetting resins with mineral fibers manufactured from glass, slag wool, or rock wool.
1. Basis of Design: USG Thermafiber unfaced 3-1/2" thick. Width to coordinate with spaces insulated.
2. Fire-Resistance-Rated Assemblies: Comply with mineral-fiber requirements of assembly.

E. Acoustical Sealant: Manufacturer's standard nonsag, paintable, nonstaining latex sealant complying with ASTM C834. Product effectively reduces airborne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E90.
1. Basis of Design: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine areas and substrates including welded hollow-metal frames and support framing, with Installer present, for compliance with requirements and other conditions affecting performance of the Work.

B. Examine panels before installation. Reject panels that are wet, moisture damaged, and mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 APPLYING AND FINISHING PANELS, GENERAL

A. Comply with ASTM C840.

B. Install metal wall and partition framing and ceiling suspension and support systems in accordance with USG Bulletin SA 923 and complying with ASTM C754.

C. Wall and partition framing:
1. Install steel studs per scheduled or at spacing indicated with bottom and top runner trackes anchored to substrates. Provide flexible ceiling runner tracks at full height partitions.
2. Terminate partition and stud system 4-inches 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 feet on center spacing.
3. Frame openings more than 2 feet wide with two 20 gage studs at each jamb.

4. Coordinate the installation of supplementary blocking and nailers, provided under Section 061000 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.

D. Install ceiling panels across framing to minimize the number of abutting end joints and to avoid abutting end joints in central area of each ceiling. Stagger abutting end joints of adjacent panels not less than one framing member.

E. Install panels with face side out. Butt panels together for a light contact at edges and ends with not more than 1/16 inch of open space between panels. Do not force into place.

F. Locate edge and end joints over supports, except in ceiling applications where intermediate supports or gypsum board back-blocking is provided behind end joints. Do not place tapered edges against cut edges or ends. Stagger vertical joints on opposite sides of partitions. Do not make joints other than control joints at corners of framed openings.

G. Form control and expansion joints with space between edges of adjoining gypsum panels.

H. Cover both faces of support framing with gypsum panels in concealed spaces (above ceilings, etc.), except in chases braced internally.
1. Unless concealed application is indicated or required for sound, fire, air, or smoke ratings, coverage may be accomplished with scraps of not less than 8 sq. ft. in area.
2. Fit gypsum panels around ducts, pipes, and conduits.
3. Where partitions intersect structural members projecting below underside of floor/roof slabs and decks, cut gypsum panels to fit profile formed by structural members; allow 1/4-to 3/8 inch- wide joints to install sealant.

I. Isolate perimeter of gypsum board applied to non-load-bearing partitions at structural abutments. Provide 1/4- to 1/2 inch- wide spaces at these locations and trim edges with edge trim where edges of panels are exposed. Seal joints between edges and abutting structural surfaces with acoustical sealant.

J. Attachment to Steel Framing: Attach panels so leading edge or end of each panel is attached to open (unsupported) edges of stud flanges first.

K. Wood Framing: Install gypsum panels over wood framing, with floating internal corner construction. Do not attach gypsum panels across the flat grain of wide-dimension lumber, including floor joists and headers. Float gypsum panels over these members or provide control joints to counteract wood shrinkage.

L. STC-Rated Assemblies: Seal construction at perimeters, behind control joints, and at openings and penetrations with a continuous bead of acoustical sealant. Install acoustical sealant at both faces of partitions at perimeters and through penetrations. Comply with ASTM C919 and with manufacturer's written instructions for locating edge trim and closing off sound-flanking paths around or through assemblies, including sealing partitions above acoustical ceilings.

M. Install sound attenuation blankets before installing gypsum panels unless blankets are readily installed after panels have been installed on one side.

3.3 APPLYING INTERIOR GYPSUM BOARD

A. Single-Layer Application:
1. On ceilings, apply gypsum panels before wall/partition board application to greatest extent possible and at right angles to framing unless otherwise indicated.
2. On partitions/walls, apply gypsum panels to minimize end joints.
3. On Z-shaped furring members, apply gypsum panels vertically (parallel to framing) with no end joints. Locate edge joints over furring members.
4. Fastening Methods: Apply gypsum panels to supports with steel drill screws.

B. Multilayer Application:
1. On ceilings, apply gypsum board indicated for base layers before applying base layers on walls/partitions; apply face layers in same sequence. Apply base layers at right angles to framing members and offset face-layer joints one framing member, 16 inches minimum, from parallel base-layer joints, unless otherwise indicated or required by fire-resistance- rated assembly.
2. On partitions/walls, apply gypsum board indicated for base layers and face layers vertically (parallel to framing) with joints of base layers located over stud or furring member and face-layer joints offset at least one stud or furring member with base-layer joints unless otherwise indicated or required by fire-resistance-rated assembly. Stagger joints on opposite sides of partitions.
3. On Z-shaped furring members, apply base layer vertically (parallel to framing) and face layer either vertically (parallel to framing) or horizontally (perpendicular to framing) with vertical joints offset at least one furring member. Locate edge joints of base layer over furring members.
4. Fastening Methods: Fasten base layers and face layers separately to supports with screws.

C. Laminating to Substrate: Where gypsum panels are indicated as directly adhered to a substrate (other than studs, joists, furring members, or base layer of gypsum board), comply with gypsum board manufacturer's written instructions and temporarily brace or fasten gypsum panels until fastening adhesive has set.

3.4 APPLYING TILE BACKING PANELS

A. Glass-Mat, Water-Resistant Backing Panels: Comply with manufacturer's written installation instructions and install at locations indicated to receive tile. Install with 1/4 inch gap where panels abut other construction or penetrations.

B. Cementitious Backer Units: ANSI A108.11, at locations indicated to receive tile.

C. Where tile backing panels abut other types of panels in same plane, shim surfaces to produce a uniform plane across panel surfaces.

3.5 INSTALLING TRIM ACCESSORIES

A. General: For trim with back flanges intended for fasteners, attach to framing with same fasteners used for panels. Otherwise, attach trim according to manufacturer's written instructions.

B. Control Joints: Install control joints according to ASTM C840 and in specific locations approved by Architect for visual effect.

C. Interior Trim: Install in the following locations:
1. Cornerbead: Use at outside corners, unless otherwise indicated.
2. Bullnose Bead: Use where indicated.
3. LC-Bead: Use at exposed panel edges.
4. L-Bead: Use where indicated.
5. U-Bead: Use where indicated.
6. Curved-Edge Cornerbead: Use at curved openings.

D. Aluminum Trim: Install in locations indicated on Drawings.

Consultant:

INTERIOR ARCHITECTS

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3.6 FINISHING GYPSUM BOARD

A. General: Treat gypsum board joints, interior angles, edge trim, control joints, penetrations, fastener heads, surface defects, and elsewhere as required to prepare gypsum board surfaces for decoration. Promptly remove residual joint compound from adjacent surfaces.

B. Screw fasten all gypsum board panels.

C. 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 length.

D. Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

E. Prefill open joints, rounded or beveled edges, and damaged surface areas.

F. Apply joint tape over gypsum board joints, except for trim products specifically indicated as not intended to receive tape.

G. Gypsum Board Finish Levels: Finish panels to levels indicated below and according to ASTM C840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
1. Level 1: Ceiling plenum areas, concealed areas, and where indicated.
2. Level 2: Panels that are substrate for tile.
3. Level 3: Interior concealed gypsum board finish, partial finishing, and where indicated.
   a. Finish concealed gypsum board construction that requires finishing same as exposed gypsum board construction, except the third coat and sanding can be omitted.
4. Level 4: At panel surfaces that will be exposed to view unless otherwise indicated.
5. Level 5: Interior exposed gypsum board finish, and where indicated.
   a. Loactions: Typical for all walls and ceilings, unless otherwise indicated.
6. Finish interior gypsum board by applying the follwoing joint compound in four coats (not including prefill of openings in base), and sand between coats and after last coat:
   a. Embedding and First Coat: Setting-type joint or taping compound.
   b. Fill (Second) Coat: Setting-type topping compound.
   c. Fill (Third) Coat: Setting-type topping compound.
   d. Finish (Fourth) Coat: Skim coat entire surface.

H. Glass-Mat Faced Panels: Finish according to manufacturer's written instructions.

I. Cementitious Backer Units: Finish according to manufacturer's written instructions.

3.7 ACOUSTICAL TREATMENT:

A. Where sound-attenuation insulation is indicated, seal gypsum board construction at perimeters, control joints, junction boxes, openings and penetration with a continuous bead of acoustical sealant including a bead at both faces of partitions.

B. 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.

C. 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.

D. Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.

3.8 CEMENT BOARD:

A. Install cement board as a 16-inch high base at all kitchen and kitchen cook line wall types as indicated on Drawings.

3.9 PROTECTION

A. Protect adjacent surfaces from drywall compound and promptly remove from floors and other non-drywall surfaces. Repair surfaces stained, marred, or otherwise damaged during drywall application.

B. Protect installed products from damage from weather, condensation, direct sunlight, construction, and other causes during remainder of the construction period.

C. Remove and replace panels that are wet, moisture damaged, and mold damaged.
1. Indications that panels are wet or moisture damaged include, but are not limited to, discoloration, sagging, or irregular shape.
2. Indications that panels are mold damaged include, but are not limited to, fuzzy or splotchy surface contamination and discoloration.

END OF SECTION 09 29 00

SECTION 09 30 13 - CERAMIC AND QUARRY TILING

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Floor and base tile, including ceramic and quarry tile.
2. Wall tile, including ceramic tile.
3. Setting materials.
4. Metal edge strips.

B. Related Requirements:
1. Section 07 92 00 - Joint Sealants for sealing of expansion, contraction, control, and isolation joints in tile surfaces.
2. Section 09 29 00 - Gypsum Board.

1.3 DEFINITIONS

A. General: Definitions in the ANSI A108 series of tile installation standards and in ANSI A137.1 apply to Work of this Section unless otherwise specified.

B. ANSI A108 Series: ANSI A108.1a ANSI A108.1b ,ANSI A108.1c, ANSI A108.2 ,ANSI A108.4, ANSI A108.5, ANSI A108.6, ANSI A108.8, ANSI A108.9, ANSI A108.10, ANSI A108.11, ANSI A108.12, ANSI A108.13, ANSI A108.14, ANSI A108.15, ANSI A108.16, and ANSI A108.17, which are contained in its "Specifications for Installation of Ceramic Tile."

C. Face Size: Actual tile size, excluding spacer lugs.

D. Module Size: Actual tile size plus joint width indicated.

1.4 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
1. Review requirements in ANSI A108.01 for substrates and for preparation by other trades.

1.5 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: Show locations of each type of tile and tile pattern. Show widths, details, and locations of expansion, contraction, control, and isolation joints in tile substrates and finished tile surfaces.

C. Samples for Verification:
1. Assembled samples mounted on a rigid panel, with grouted joints, for each type and composition of tile and for each color and finish required. Make samples at least 12 inches square, but not fewer than four tiles. Use grout of type and in color or colors approved for completed Work.
2. Full-size units of each type of trim and accessory for each color and finish required.
3. Metal edge strips in 6 inch lengths.

1.6 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Master Grade Certificates: For each shipment, type, and composition of tile, signed by tile manufacturer and Installer.

C. Product Certificates: For each type of product. Certification shall include statement that products to be used on project are appropriate for intended use, meet or exceed referenced standards and the requirements of this specification, noting DCOF value for each product to be used.

D. Product Test Reports: For tile-setting and -grouting products and certified porcelain tile.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match and are from same production runs as products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Tile and Trim Units: Furnish quantity of full-size units equal to 3 percent of amount installed for each type, composition, color, pattern, and size indicated.
2. Grout: Furnish quantity of grout equal to 3 percent of amount installed for each type, composition, and color indicated.

1.8 QUALITY ASSURANCE

A. Installer Qualifications: An experienced installer with a minimum of 2 years documented experience with projects of similar size and complexity.

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

C. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.
1. Build mockup of each type of floor tile installation.
2. Build mockup of each type of wall tile installation.
3. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver and store packaged materials in original containers with seals unbroken and labels intact until time of use. Comply with requirements in ANSI A137.1 for labeling tile packages.

B. Store tile and cementitious materials on elevated platforms, under cover, and in a dry location.

C. Store aggregates where grading and other required characteristics can be maintained and contamination can be avoided.

D. Store liquid materials in unopened containers and protected from freezing.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not install tile until construction in spaces is complete and ambient temperature and humidity conditions are maintained at the levels indicated in referenced standards and manufacturer's written instructions.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Dynamic Coefficient of Friction (DCOF): For tiles installed on walkway surfaces, provide products with a value greater than 0.42 as determined by testing identical products by DCOF AcuTest Method per ANSI A137, and A326.3, 2017 editions.

2.2 MANUFACTURERS

A. Basis of Design Tile: Daltile, Phone: 877.556.5728. Website: HYPERLINK "http://www.daltile.com/"www.daltile.com. For ordering purposes, email all orders to HYPERLINK "mailto:chipotle@daltile.com"chipotle@daltile.com.

B. Source Limitations for Setting and Grouting Materials: Obtain ingredients of a uniform quality for each mortar, adhesive, and grout component from single manufacturer and each aggregate from single source or producer.
1. Obtain setting and grouting materials, except for unmodified Portland cement and aggregate, from single manufacturer.
2. Obtain waterproof membrane and crack isolation membrane, except for sheet products, from manufacturer of setting and grouting materials.

C. Source Limitations for Other Products: Obtain each of the following products specified in this Section from a single manufacturer:
1. Stone thresholds.
2. Waterproof membrane.
3. Crack isolation membrane.
4. Cementitious backer units.
5. Metal edge strips.

2.3 PRODUCTS, GENERAL

A. ANSI Ceramic Tile Standard: Provide tile that complies with ANSI A137.1 for types, compositions, and other characteristics indicated.
1. Provide tile complying with Standard grade requirements unless otherwise indicated.

B. ANSI Standards for Tile Installation Materials: Provide materials complying with ANSI A108.2, ANSI standards referenced in other Part 2 articles, ANSI standards referenced by TCNA installation methods specified in tile installation schedules, and other requirements specified.

C. Factory Blending: For tile exhibiting color variations within ranges, blend tile in factory and package so tile units taken from one package show same range in colors as those taken from other packages and match approved Samples.

D. Mounting: For factory-mounted tile, provide back- or edge-mounted tile assemblies as standard with manufacturer unless otherwise indicated.

E. Factory Applied Temporary Protective Coatings (for Quarry Tile): Where indicated under tile type, protect exposed surfaces of tile against adherence of mortar and grout by pre-coating with a continuous film of petroleum paraffin wax applied hot. Do not coat unexposed tile surfaces.

2.4 CERAMIC TILE PRODUCTS

A. Basis-of-Design Products: Daltile. Ceramic Tile Series - Color Wheel Glazed Ceramic.

B. Kitchen Tile or as indicated in Drawings.
1. Color - Artic White 190, Semi-Gloss, Size 4-inches x 16-inches, Pattern - Stacked Bond

C. Accent Tile
1. Color - Chipotle Brick Metallic 1.0 No. 9999710686, Size 3-inches x 12-inches, Pattern - Stcked Bond.
2. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
   a. Series - Remedy, color - Achemy RD25, size 2-inches x 9-inches, Pattern - Stacked Bond.
   b. Series - Marrazzi, Color - Artesen AT25, size 2-inches x 4-inches, Pattern - Brickjoint Mosaic

2.5 QUARRY TILE PRODUCTS

A. Basis-of-Design Products: Daltile.
1. 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.
   a. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
   b. Rest Rooms: Provide non-abrasive finish quarry tile.
   c. Outside Corner Cove Base (Kitchen): #QC-(L or R)-3565 5" x 6"
   d. Inside Corner Cove Base: #QB-3565 1" x 5"
   e. Bullnose Coveless Base: #Q-1665, 6" x 6"
   f. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"

2.6 THRESHOLDS

A. General: Fabricate to sizes and profiles indicated or required to provide transition between adjacent floor finishes.
B. Metal Edge Strips: Angle or L-shaped, height to match tile and setting-bed thickness, metallic or combination of metal and PVC or neoprene base, designed specifically for flooring applications; ASTM B 221, extruded aluminum, with clear anodized satin finish exposed-edge material.

2.7 SETTING MATERIALS

A. Ceramic Tile Grout, Basis of Design:
1. Thinset Mortar: Mapei, Ultraflex LFT - Gray, unless noted otherwise.
2. Kitchen Tile Grout: Mapei, Series - Flexcolor CQ - Gray No. 09, 1/8 inch grout joints.
3. Accent Tile Grout: Mapei, Series - Flexcolor CQ - Truffle No. 115, 1/8 inch grout joints.

B. Quarry Tile Grout, Basis of Design:
1. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
2. Grout: Mapei, Kerapoxy IEG CQ, Color: #9, "Gray", 1/4" grout joints.

C. Waterproof Membrane: Manufacturer's standard product that complies with ANSI A118.10 and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
1. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

D. Crack Isolation Membrane: Manufacturer's standard product that complies with ANSI A118.12 for standard performance and is recommended by the manufacturer for the application indicated. Include reinforcement and accessories recommended by manufacturer.
1. Fabric-Reinforced, Fluid-Applied Membrane: System consisting of liquid-latex rubber or elastomeric polymer and fabric reinforcement.
2. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

E. Portland Cement Mortar (Thickset) Installation Materials: ANSI A108.2.
1. Cleavage Membrane: Asphalt felt, ASTM D226/D226M, Type I (No. 15); or polyethylene sheeting, ASTM D4397, 4.0 mils (0.1 mm) thick.
2. Latex Additive: Manufacturer's standard acrylic resin or styrene-butadiene-rubber water emulsion, serving as replacement for part or all of gaging water, of type specifically recommended by latex-additive manufacturer for use with field-mixed portland cement and aggregate mortar bed.

F. Sand-Portland Cement Grout: ANSI A108.10, consisting of white or gray cement and white or colored aggregate as required to produce color indicated.

G. Standard Cement Grout: ANSI A118.6.

H. Water-Cleanable Epoxy Grout: ANSI A118.3.

1. Provide product capable of withstanding continuous and intermittent exposure to temperatures of up to 140 and 212 deg F, respectively, and certified by manufacturer for intended use.

I. Grout for Pregrouted Tile Sheets: Same product used in factory to pregrout tile sheets.

2.8 MISCELLANEOUS MATERIALS

A. Trowelable Underlayments and Patching Compounds: Latex-modified, portland cement-based formulation provided or approved by manufacturer of tile-setting materials for installations indicated.

B. Vapor-Retarder Membrane: Polyethylene sheeting, ASTM D4397, 4.0 mils thick.

C. Tile Cleaner: A neutral cleaner capable of removing soil and residue without harming tile and grout surfaces, specifically approved for materials and installations indicated by tile and grout manufacturers.

D. Floor Sealer: Manufacturer's standard product for sealing grout joints and that does not change color or appearance of grout.

2.9 MIXING MORTARS AND GROUT

A. Mix mortars and grouts to comply with referenced standards and mortar and grout manufacturers' written instructions.

B. Add materials, water, and additives in accurate proportions.

C. Obtain and use type of mixing equipment, mixer speeds, mixing containers, mixing time, and other procedures to produce mortars and grouts of uniform quality with optimum performance characteristics for installations indicated.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions where tile will be installed, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
1. Verify that substrates for setting tile are firm; dry; clean; free of coatings that are incompatible with tile-setting materials, including curing compounds and other substances that contain soap, wax, oil, or silicone; and comply with flatness tolerances required by ANSI A108.01 for installations indicated.
2. Verify that concrete substrates for tile floors installed with adhesives, bonded mortar bed, or thinset mortar comply with surface finish requirements in ANSI A108.01 for installations indicated.
   a. Verify that surfaces that received a steel trowel finish have been mechanically scarified.
   b. Verify that protrusions, bumps, and ridges have been removed by sanding or grinding.
3. Verify that installation of grounds, anchors, recessed frames, electrical and mechanical units of work, and similar items located in or behind tile has been completed.
4. Verify that joints and cracks in tile substrates are coordinated with tile joint locations; if not coordinated, adjust joint locations in consultation with Architect.

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

3.2 PREPARATION

A. Fill cracks, holes, and depressions in concrete substrates for tile floors installed with adhesives or thinset mortar with trowelable leveling and patching compound specifically recommended by tile-setting material manufacturer.

B. Where indicated, prepare substrates to receive waterproof membrane by applying a reinforced mortar bed that complies with ANSI A108.1a and is sloped 1/4 inch per foot (1:50) toward drains.

C. Blending: For tile exhibiting color variations, verify that tile has been factory blended and packaged so tile units taken from one package show same range of colors as those taken from other packages and match approved Samples. If not factory blended, either return to manufacturer or blend tiles at Project site before installing.

3.3 INSTALLATION OF TILE

A. Comply with TCNA's "Handbook for Ceramic, Glass, and Stone Tile Installation" for TCNA installation methods specified in tile installation schedules. Comply with parts of the ANSI A108 series "Specifications for Installation of Ceramic Tile" that are referenced in TCNA installation methods, specified in tile installation schedules, and apply to types of setting and grouting materials used.
1. For the following installations, follow procedures in the ANSI A108 series of tile installation standards for providing 95 percent mortar coverage:
   a. Tile floors in wet areas.
   b. Tile floors consisting of tiles 8 inches by 8 inches or larger.
   c. Tile floors consisting of rib-backed tiles.

B. 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.

C. 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

D. Extend tile work into recesses and under or behind equipment and fixtures to form complete covering without interruptions unless otherwise indicated. Terminate work neatly at obstructions, edges, and corners without disrupting pattern or joint alignments.

E. Accurately form intersections and returns. Perform cutting and drilling of tile without marring visible surfaces. Carefully grind cut edges of tile abutting trim, finish, or built-in items for straight aligned joints. Fit tile closely to electrical outlets, piping, fixtures, and other penetrations so plates, collars, or covers overlap tile.

F. Provide manufacturer's standard trim shapes where necessary to eliminate exposed tile edges.

G. Where accent tile differs in thickness from field tile, vary setting-bed thickness so that tiles are flush.

H. Jointing Pattern: Lay tile in grid pattern unless otherwise indicated. Lay out tile work and center tile fields in both directions in each space or on each wall area. Lay out tile work to minimize the use of pieces that are less than half of a tile. Provide uniform joint widths unless otherwise indicated.
1. For tile mounted in sheets, make joints between tile sheets same width as joints within tile sheets so joints between sheets are not apparent in finished work.
2. Where adjoining tiles on floor, base, walls, or trim are specified or indicated to be same size, align joints.
3. Where tiles are specified or indicated to be whole integer multiples of adjoining tiles on floor, base, walls, or trim, align joints unless otherwise indicated.

I. Joint Widths: Unless otherwise indicated, install tile with the following joint widths:
1. Ceramic Mosaic Tile: 1/8 inch.
2. Quarry Tile: 1/4 inch.

J. Lay out tile wainscots to dimensions indicated or to next full tile beyond dimensions indicated.

K. Expansion Joints: Provide expansion joints and other sealant-filled joints, including control, contraction, and isolation joints, where indicated. Form joints during installation of setting materials, mortar beds, and tile. Do not saw-cut joints after installing tiles.
1. Where joints occur in concrete substrates, locate joints in tile surfaces directly above them.

L. Stone Thresholds: Install stone thresholds in same type of setting bed as adjacent floor unless otherwise indicated.
1. At locations where mortar bed (thickset) would otherwise be exposed above adjacent floor finishes, set thresholds in mortar (thinset).
2. Do not extend membranes under thresholds set in mortar. Fill joints between such thresholds and adjoining tile set on membrane with elastomeric sealant.

M. Metal Edge Strips: Install at locations indicated and where exposed edge of tile flooring meets carpet, wood, or other flooring that finishes flush with top of tile.

N. Floor Sealer: Apply floor sealer to grout joints according to floor-sealer manufacturer's written instructions. As soon as floor sealer has penetrated grout joints, remove excess sealer and sealer from tile faces by wiping with soft cloth.

3.4 MEMBRANE INSTALLATION

A. Install waterproof membrane to comply with ANSI A108.13 and manufacturer's written instructions to produce waterproof membrane of uniform thickness that is bonded securely to substrate.

B. Install crack isolation membrane to comply with ANSI A108.17 and manufacturer's written instructions to produce membrane of uniform thickness that is bonded securely to substrate Allow membrane to cure and verify by testing that it is watertight before installing tile or setting materials over it.

3.5 ADJUSTING AND CLEANING

A. Remove and replace tile that is damaged or that does not match adjoining tile. Provide new matching units, installed as specified and in a manner to eliminate evidence of replacement.

B. Cleaning: On completion of placement and grouting, clean all ceramic tile surfaces so they are free of foreign matter.
1. Remove grout residue from tile as soon as possible.
2. Clean grout smears and haze from tile according to tile and grout manufacturer's written instructions but no sooner than 10 days after installation. Use only cleaners recommended by tile and grout manufacturers and only after determining that cleaners are safe to use by testing on samples of tile and other surfaces to be cleaned. Protect metal surfaces and plumbing fixtures from effects of cleaning. Flush surfaces with clean water before and after cleaning.

3.6 PROTECTION

A. Protect installed tile work with kraft paper or other heavy covering during construction period to prevent staining, damage, and wear. If recommended by tile manufacturer, apply coat of neutral protective cleaner to completed tile walls and floors.

B. Prohibit foot and wheel traffic from tiled floors for at least seven days after grouting is completed.

C. Before final inspection, remove protective coverings and rinse neutral protective cleaner from tile surfaces.

3.7 INTERIOR TILE INSTALLATION SCHEDULE

A. Interior Floor Installations, Concrete Subfloor:
1. Tile Installation: TCNA F113; thinset mortar.
   a. Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: High-performance unsanded grout.
   d. Locations: Installation on concrete floors, unless otherwise indicated.
2. Tile Installation: TCNA F115; thinset mortar; epoxy grout.
   a. Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: Water-cleanable epoxy grout.
   d. Joint Width: 1/8 inch.
   e. Locations: Commercial Kitchen and Servery Areas and where indicated.
3. Tile Installation: TCNA F122; thinset mortar on waterproof membrane.
   a. Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: High-performance unsanded grout.
   d. Locations: Toilet Rooms and where indicated.
4. Tile Installation: TCNA F125-Partial; thinset mortar on crack isolation membrane.
   a. Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: High-performance unsanded grout.
   d. Locations: As indicated.

B. Interior Wall Installations, Wood or Metal Studs or Furring:
1. Ceramic Tile Installation: TCNA W244C or TCNA W244F; thinset mortar on cementitious backer units or fiber-cement backer board.
   a. Ceramic Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: High-performance unsanded grout.
   d. Locations: Wall installations with cementitious backer units or fiber-cement backer board, except as indicated.
2. Ceramic Tile Installation: TCNA W245 or TCNA W248; thinset mortar on glass-mat, water- resistant gypsum backer board.
   a. Ceramic Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: High-performance unsanded grout.
   d. Locations: Wall installations with glass-mat, water-resistant gypsum backer board, except as indicated.
3. Ceramic Tile Installation Insert designation: TCNA B420; thinset mortar on waterproof membrane over coated glass-mat, water-resistant gypsum backer board or cementitious backer board.
   a. Ceramic Tile Type: Refer to Finish Schedule.
   b. Mortar: Thinset.
   c. Grout: High-performance unsanded grout.
   d. Locations: Bathtub/shower wall installations.

END OF SECTION 09 30 13

SECTION 09 51 13 - ACOUSTICAL PANEL CEILINGS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

Consultant:

IA INTERIOR ARCHITECTS

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ARCHITECTURAL SPECIFICATIONS

G026

1.2 SUMMARY

A. Section includes acoustical panels and exposed suspension systems for interior ceilings.

B. Products furnished, but not installed under this Section, include anchors, clips, and other ceiling attachment devices to be cast in concrete.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Samples for Verification: For each component indicated and for each exposed finish required, prepared on Samples of sizes indicated below:
1. Acoustical Panels: Set of 6 inch- square Samples of each type, color, pattern, and texture.
2. Exposed Suspension-System Members, Moldings, and Trim: Set of 12 inch- long Samples of each type, finish, and color.

C. Delegated-Design Submittal: For seismic restraints for ceiling systems.
1. Include design calculations for seismic restraints including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Reflected ceiling plans, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
1. Ceiling suspension-system members.
2. Structural members to which suspension systems will be attached.
3. Method of attaching hangers to building structure.
a. Furnish layouts for cast-in-place anchors, clips, and other ceiling attachment devices whose installation is specified in other Sections.
4. Carrying channels or other supplemental support for hanger-wire attachment where conditions do not permit installation of hanger wires at required spacing.
5. Size and location of initial access modules for acoustical panels.
6. Items penetrating finished ceiling and ceiling-mounted items including the following:
a. Lighting fixtures.
b. Diffusers.
c. Grilles.
d. Speakers.
e. Sprinklers.
f. Access panels.
g. Perimeter moldings.
7. Show operation of hinged and sliding components covered by or adjacent to acoustical panels.
8. Minimum Drawing Scale: 1/4 inch = 1 foot (1:48).

B. Product Test Reports: For each acoustical panel ceiling, for tests performed by a qualified testing agency.

C. Evaluation Reports: For each acoustical panel ceiling suspension system and anchor and fastener type, from ICC-ES.

D. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For finishes to include in maintenance manuals.

1.7 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Acoustical Ceiling Units: Full-size panels equal to 2 percent of quantity installed.
2. Suspension-System Components: Quantity of each exposed component equal to 2 percent of quantity installed.
3. Hold-Down Clips: Equal to 2 percent of quantity installed.
4. Impact Clips: Equal to 2 percent of quantity installed.

1.8 QUALITY ASSURANCE

A. Standards: Materials and installation shall conform to the following:
1. CISCA "Acoustical Ceilings - Use and Practice"
2. ASTM C635 "Standard Specification for Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-in Panel Ceilings.
3. ASTM C636 "Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-in Panels

1.9 DELIVERY, STORAGE, AND HANDLING

A. Deliver acoustical panels, suspension-system components, and accessories to Project site and store them in a fully enclosed, conditioned space where they will be protected against damage from moisture, humidity, temperature extremes, direct sunlight, surface contamination, and other causes.
B. Before installing acoustical panels, permit them to reach room temperature and a stabilized moisture content.

1.10 FIELD CONDITIONS

A. Environmental Limitations: Do not install acoustical panel ceilings until spaces are enclosed and weathertight, wet-work in spaces is complete and dry, work above ceilings is complete, and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.
1. Pressurized Plenums: Operate ventilation system for not less than 48 hours before beginning acoustical panel ceiling installation.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Source Limitations: Obtain each type of acoustical ceiling panel and its supporting suspension system from single source from single manufacturer.

2.2 PERFORMANCE REQUIREMENTS

A. Surface-Burning Characteristics: Comply with ASTM E84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: Class A according to ASTM E1264.
2. Smoke-Developed Index: 50 or less.

B. Fire-Resistance Ratings: Comply with ASTM E119; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Indicate design designations from UL or from the listings of another qualified testing agency.

2.3 ACOUSTICAL PANELS

A. Manufacturers:
1. USG Interiors, Incorporated, Phone: 800.950.3839. Website: www.usg.com
2. Pittcon Industries: Phone: 800.637.7638. Website: www.pittconindustries.com.

B. Basis-of-Design Products: USG "Sheetrock lay-In ClimaPlus No. 3270".

C. Acoustical Panel Standard: Provide manufacturer's standard panels according to ASTM E1264 and designated by type, form, pattern, acoustical rating, and light reflectance unless otherwise indicated.

D. Classification: Provide panels as follows:
1. Type and Form: Type XII, glass-fiber base with membrane-faced overlay; Form 2, cloth. Binder shall not contain urea formaldehyde.
2. Type and Form: Type XX, high-density, ceramic- and mineral-base panels with scrubbable finish, resistant to heat, moisture, and corrosive fumes.

E. Color: White, unless otherwise indicated.

F. Thickness: As indicated on Drawings.

G. Modular Size: As indicated on Drawings.

H. Antimicrobial Treatment: Manufacturer's standard broad spectrum, antimicrobial formulation that inhibits fungus, mold, mildew, and gram-positive and gram-negative bacteria and showing no mold, mildew, or bacterial growth when tested according to ASTM D3273, ASTM D3274, or ASTM G21 and evaluated according to ASTM D3274 or ASTM G21.

2.4 LIGHT POCKET:

A. Basis of Design: Pittcon "LP-700-800", White, Height of cove should be field verified by GC to end on a full tile height.
1. Light pocket endcap should only be installed when the end of the cove is not against a wall.

2.5 METAL SUSPENSION SYSTEM

A. Basis of Design:
1. Exposed "Tee" Grid System for use with Lay-In Ceiling panels: USG "Donn DX System". Non-fire rated with 15/16 inch exposed face, white paint finish on exposed surfaces. Provide hemmed edge alumimum wall angels, 15/16 inch exposed leg, white paint finish matching exposed grid.
2. Concealed "Tee" Grid System for use with Painted Gypsum Board Ceilings and Soffits or with Cementitious Wood Fiber Acoustical Panels: USG "DGLW" Heavy Duty Drywall Suspension System with 1-5/8 inch deep by 1-1/2 inch wide main tees and 1-1/2 inch deep by 1 1/2 inch wide cross tees.

B. Metal Suspension-System Standard: Provide manufacturer's standard, direct-hung, metal suspension system and accessories according to ASTM C635/C635M and designated by type, structural classification, and finish indicated.
1. High-Humidity Finish: Where indicated, provide coating tested and classified for "severe environment performance" according to ASTM C635/C635M.

C. Wide-Face, Aluminum-Capped, Double-Web, Fire-Rated, Hot-Dip Galvanized, G60 (Z180), Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet; hot- dip galvanized, G60 (Z180) coating designation; with prefinished, 15/16-inch- (24-mm-) wide aluminum caps on flanges.
1. Structural Classification: Intermediate-duty system.
2. Face Design: Flat, flush.
3. Cap Finish: Painted white, unless otherwise indicated.

D. Wide-Face, Single-Web, Steel Suspension System: Main and cross runners roll formed from cold-rolled steel sheet electrolytically zinc coated, with prefinished flanges of width indicated.
1. Structural Classification: Heavy-duty system.
2. Face Finish: Painted white, unless otherwise indicated.

2.6 ACCESSORIES

A. Attachment Devices: Size for five times the design load indicated in ASTM C635/C635M, Table 1, "Direct Hung," unless otherwise indicated. Comply with seismic design requirements.
1. Power-Actuated Fasteners in Concrete: Fastener system of type suitable for application indicated, fabricated from corrosion-resistant materials, with clips or other accessory devices for attaching hangers of type indicated and with capability to sustain, without failure, a load equal to 10 times that imposed by ceiling construction, as determined by testing according to ASTM E1190, conducted by a qualified testing and inspecting agency.

B. Wire Hangers, Braces, and Ties: Provide wires as follows:
1. Zinc-Coated, Carbon-Steel Wire: ASTM A641/A641M, Class 1 zinc coating, soft temper.
2. Stainless-Steel Wire: ASTM A580/A580M, Type 304, nonmagnetic.
3. Nickel-Copper-Alloy Wire: ASTM B164, nickel-copper-alloy UNS No. N04400.
4. Size: Wire diameter sufficient for its stress at three times hanger design load (ASTM C635/C635M, Table 1, "Direct Hung") will be less than yield stress of wire, but not less than 0.106 inch- diameter wire.

C. Hanger Rods: Mild steel, zinc coated or protected with rust-inhibitive paint.

D. Flat Hangers: Mild steel, zinc coated or protected with rust-inhibitive paint.

E. Angle Hangers: Angles with legs not less than 7/8 inch wide; formed with 0.04 inch- thick, galvanized-steel sheet complying with ASTM A653/A653M, G90 (Z275) coating designation; with bolted connections and 5/16 inch- diameter bolts.

F. Hold-Down Clips: Manufacturer's standard hold-down.

G. Impact Clips: Manufacturer's standard impact-clip system designed to absorb impact forces against acoustical panels.

2.7 METAL EDGE MOLDINGS AND TRIM

A. Roll-Formed, Sheet-Metal Edge Moldings and Trim: Type and profile indicated or, if not indicated, manufacturer's standard moldings for edges and penetrations that comply with seismic design requirements; formed from sheet metal of same material, finish, and color as that used for exposed flanges of suspension-system runners.
1. Edge moldings shall fit acoustical panel edge details and suspension systems indicated and match width and configuration of exposed runners unless otherwise indicated.
2. For lay-in panels with reveal edge details, provide stepped edge molding that forms reveal of same depth and width as that formed between edge of panel and flange at exposed suspension member.
3. For circular penetrations of ceiling, provide edge moldings fabricated to diameter required to fit penetration exactly.

B. Extruded-Aluminum Edge Moldings and Trim: Where indicated, provide manufacturer's extruded-aluminum edge moldings and trim of profile indicated or referenced by manufacturer's designations, including splice plates, corner pieces, and attachment and other clips, complying with seismic design requirements.
1. Clear Anodic Finish: AAMA 611, AA-M12C22A31, Class II, 0.010 mm or thicker.
2. Baked-Enamel or Powder-Coat Finish: Minimum dry film thickness of 1.5 mils. Comply with ASTM C635/C635M and coating manufacturer's written instructions for cleaning, conversion coating, and applying and baking finish.

2.8 ACOUSTICAL SEALANT

A. Acoustical Sealant for Exposed and Concealed Joints:
1. Products: Subject to compliance with requirements, provide one of the following:
a. USG Corporation; SHEETROCK Acoustical Sealant.

B. Acoustical Sealant: Manufacturer's standard sealant complying with ASTM C 834 and effective in reducing airbourne sound transmission through perimeter joints and openings in building construction as demonstrated by testing representative assemblies according to ASTM E 90.
1. Exposed and Concealed Joints: Nonsag, paintable, nonstaining latex sealant.
2. Concealed Joints: Nondrying, nonhardening, nonskinning, nonstaining, gunnable, synthetic-rubber sealant.
3. Acoustical sealant shall have a VOC content of 250 g/L or less when calculated according to 40 CFR 59, Subpart D (EPA method 24).

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, including structural framing to which acoustical panel ceilings attach or abut, with Installer present, for compliance with requirements specified in this and other Sections that affect ceiling installation and anchorage and with requirements for installation tolerances and other conditions affecting performance of acoustical panel ceilings.

B. Examine acoustical panels before installation. Reject acoustical panels that are wet, moisture damaged, or mold damaged.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 PREPARATION

A. Measure each ceiling area and establish layout of acoustical panels to balance border widths at opposite edges of each ceiling. Avoid using less-than-half-width panels at borders unless otherwise indicated, and comply with layout shown on reflected ceiling plans.

B. Layout openings for penetrations centered on the penetrating items.

3.3 INSTALLATION

A. Install acoustical panel ceilings according to ASTM C636/C636M, CISCA's "Ceiling Systems Handbook," and manufacturer's written instructions.

B. Suspend ceiling hangers from building's structural members and as follows:
1. Install hangers plumb and free from contact with insulation or other objects within ceiling plenum that are not part of supporting structure or of ceiling suspension system.
2. Splay hangers only where required to miss obstructions; offset resulting horizontal forces by bracing, counstersplaying, or other equally effective means.
3. Where width of ducts and other construction within ceiling plenum produces hanger spacings that interfere with location of hangers at spacings required to support standard suspension-system members, install supplemental suspension members and hangers in form of trapezes or equivalent devices.
4. Secure wire hangers to ceiling-suspension members and to supports above with a minimum of three tight turns. Connect hangers directly to structure or to inserts, eye screws, or other devices that are secure and appropriate for substrate and that will not deteriorate or otherwise fail due to age, corrosion, or elevated temperatures.
5. Do not support ceilings directly from permanent metal forms or floor deck. Fasten hangers to cast-in-place hanger inserts, postinstalled mechanical or adhesive anchors, or power- actuated fasteners that extend through forms into concrete.
6. When steel framing does not permit installation of hanger wires at spacing required, install carrying channels or other supplemental support for attachment of hanger wires.
7. Do not attach hangers to steel deck tabs.
8. Space hangers not more than 48 inches o.c. along each member supported directly from hangers unless otherwise indicated; provide hangers not more than 8 inches from ends of each member.
9. Size supplemental suspension members and hangers to support ceiling loads within performance limits established by referenced standards.

C. Install edge moldings and trim of type indicated at perimeter of acoustical ceiling area and where necessary to conceal edges of acoustical panels.
1. Apply acoustical sealant in a continuous ribbon concealed on back of vertical legs of moldings before they are installed.
2. Screw attach moldings to substrate at intervals not more than 16 inches o.c. and not more than 3 inches from ends. Miter corners accurately and connect securely.
3. Do not use exposed fasteners, including pop rivets, on moldings and trim.

D. Install suspension-system runners so they are square and securely interlocked with one another. Remove and replace dented, bent, or kinked members.

E. Install acoustical panels with undamaged edges and fit accurately into suspension-system runners and edge moldings. Scribe and cut panels at borders and penetrations to provide precise fit.
1. Arrange directionally patterned acoustical panels as indicated on Drawings.
2. Paint cut edges of panel remaining exposed after installation; match color of exposed panel surfaces using coating recommended in writing for this purpose by acoustical panel manufacturer.
3. Install hold-down clips in areas indicated, in areas required by authorities having jurisdiction, and for fire-resistance ratings; space as recommended by panel manufacturer's written instructions, unless otherwise indicated.
4. Protect lighting fixtures and air ducts according to requirements indicated for fire- resistance-rated assembly.

3.4 ERECTION TOLERANCES

A. Suspended Ceilings: Install main and cross runners level to a tolerance of 1/8 inch in 12 feet, non-cumulative.
B. Moldings and Trim: Install moldings and trim to substrate and level with ceiling suspension system to a tolerance of 1/8 inch in 12 feet, non-cumulative.

3.5 CLEANING

A. Clean exposed surfaces of acoustical panel ceilings, including trim, edge moldings, and suspension-system members. Comply with manufacturer's written instructions for cleaning and touchup of minor finish damage.
B. Remove and replace ceiling components that cannot be successfully cleaned and repaired to permanently eliminate evidence of damage.

END OF SECTION 09 51 13

SECTION 09 65 10 - RESILIENT FLOORING AND ACCESSORIES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Resilient wall base.
2. Resilient molding accessories.
3. Installation materials.

B. Related Requirements:

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.

B. Shop Drawings: For each type of floor covering. Include floor covering layouts, locations of seams, edges, columns, doorways, enclosing partitions, built-in furniture, cabinets, and cutouts.
1. Show details of special patterns.

C. Samples for Verification:
1. For resilient wall base and accessories, in manufacturer's standard size, but not less than 12 inches long, of each resilient product color and pattern required.
2. For heat-welding bead, manufacturer's standard-size Samples, but not less than 9 inches long, of each color required.

D. Welded-Seam Samples: For seamless-installation technique indicated and for each floor covering product, color, and pattern required; with seam running lengthwise and in center of 6 inch by 9 inch. Sample applied to a rigid backing and prepared by Installer for this Project.

E. Product Schedule: For resilient flooring and accessory products. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

1.5 CLOSEOUT SUBMITTALS

A. Maintenance Data: For each type of resilient flooring to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials, from the same product run, that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Resilient Base: Furnish not less than 10 linear feet for every 500 linear feet or fraction thereof, of each type, color, pattern, and size of resilient product installed.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: An entity that employs installers and supervisors who are competent in techniques required by manufacturer for flooring installation and seaming methods indicated.

B. Standards: Materials and installaiton shall conform to the following:
1. ASTM D2240 Rubber - 85 Shore A.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Store resilient products and installation materials in dry spaces protected from the weather, with ambient temperatures maintained within range recommended by manufacturer, but not less than 50 deg F or more than 90 deg F.

1.9 FIELD CONDITIONS

A. Maintain ambient temperatures within range recommended by manufacturer, but not less than 70 deg F or more than 95 deg F, in spaces to receive resilient products during the following periods:
1. 48 hours before installation.
2. During installation.
3. 48 hours after installation.

B. After installation and until Substantial Completion, maintain ambient temperatures within range recommended by manufacturer, but not less than 55 deg F or more than 95 deg F.

C. Close spaces to traffic during resilient flooring installation.

D. Close spaces to traffic for 48 hours after resilient flooring installation.

E. Install resilient products after other finishing operations, including painting, have been completed.

PART 2 PRODUCTS

2.1 RESILIENT PRODUCTS

A. Manufacturer: Johnsonite, Inc. (800) 899.8916. Website: www.johnsonite.com

B. Alternate Wall Base: Only when approved by Arch PM and Chipotle DM.

2.2 PERFORMANCE REQUIREMENTS

A. Fire-Test-Response Characteristics: For resilient flooring, as determined by testing identical products according to ASTM E648 or NFPA 253 by a qualified testing agency.
1. Critical Radiant Flux Classification: Class I, not less than 0.45 W/sq. cm.

2.3 THERMOPLASTIC-RUBBER BASE

A. Product Standard: ASTM F1861, Type TP (rubber, thermoplastic).

B. Style and Location:
1. Style A, Straight: Provide in areas with carpet.
2. Style B, Cove: Provide in areas with resilient floor coverings.

C. Thickness: 0.125 inch.

D. Height: 4 inches, unless otherwise indicated.

E. Lengths: Coils in manufacturer's standard length.

F. Outside Corners: Preformed.

G. Inside Corners: Preformed.

H. Color: Black.

I. Straight (toeless) or coved as specified on finish plan.

2.4 RUBBER MOLDING ACCESSORY

A. Description:
1. Cap for cove resillient floor covering.
2. Nosing for resilient floor covering.
3. Reducer strip for resilient floor covering.
4. Transition strips.

B. Profile and Dimensions: As indicated.

2.5 INSTALLATION MATERIALS

A. Trowelable Leveling and Patching Compounds: Latex-modified, portland-cement-based or blended hydraulic-cement-based formulation provided or approved by resilient-product manufacturer for applications indicated.

B. Adhesives: Water-resistant type recommended by resilient-product manufacturer for resilient products and substrate conditions indicated.
1. Basis of Design:
a. For porous surface applications: Johnsonite (Tarkett) 960 Acrylic Cove Base Adhesive.
b. For non-porous surface applications: Johnsonite (Tarkett) 946 Contact Bond Adhesive or polymer based alternate.
C. Noise-Reduction Underlayment: As indicated in Finish Schedule.

D. Seamless-Installation Accessories:
1. Chemical-Bonding Compound: Manufacturer's product for chemically bonding seams.

E. Integral-Flash-Cove-Base Accessories:
1. Cove Strip: 1 inch radius provided or approved by resilient sheet flooring manufacturer.
2. Cap Strip: Provided or approved by resilient sheet flooring manufacturer.
3. Corners: Metal inside and outside corners and end stops provided or approved by resilient sheet flooring manufacturer.

F. Metal Edge Strips: Extruded aluminum with mill finish, nominal 2 inches wide, of height required to protect exposed edges of flooring, and in maximum available lengths to minimize running joints.

G. Floor Polish: Provide protective, liquid floor-polish products recommended by resilient stair- tread manufacturer.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resilient products.

B. Proceed with installation only after unsatisfactory conditions have been corrected.
1. Installation of resilient products indicates acceptance of surfaces and conditions.

3.2 PREPARATION

A. Prepare substrates according to manufacturer's written instructions to ensure adhesion of resilient products.

B. Fill cracks, holes, and depressions in substrates with trowelable leveling and patching compound; remove bumps and ridges to produce a uniform and smooth substrate.

C. Do not install resilient products until materials are the same temperature as space where they are to be installed.
1. At least 48 hours in advance of installation, move resilient products and installation materials into spaces where they will be installed.

D. Immediately before installation, sweep and vacuum clean substrates to be covered by resilient products.

3.3 RESILIENT BASE INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient base.

B. Apply resilient base to walls, columns, pilasters, casework and cabinets in toe spaces, and other permanent fixtures in rooms and areas where base is required.

C. Install resilient base in lengths as long as practical without gaps at seams and with tops of adjacent pieces aligned.

D. Tightly adhere resilient base to substrate throughout length of each piece, with base in continuous contact with horizontal and vertical substrates.

E. Do not stretch resilient base during installation.

F. On masonry surfaces or other similar irregular substrates, fill voids along top edge of resilient base with manufacturer's recommended adhesive filler material.

G. Preformed Corners: Install preformed corners before installing straight pieces.

Consultant:

INTERIOR ARCHITECTS

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H. Job-Formed Corners:
1. Outside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
   a. Form without producing discoloration (whitening) at bends.
2. Inside Corners: Use straight pieces of maximum lengths possible and form with returns not less than 3 inches in length.
   a. Miter or cope corners to minimize open joints.

3.4 RESILIENT ACCESSORY INSTALLATION

A. Comply with manufacturer's written instructions for installing resilient accessories.

B. Resilient Molding Accessories: Butt to adjacent materials and tightly adhere to substrates throughout length of each piece. Install reducer strips at edges of floor covering that would otherwise be exposed.

3.5 CLEANING AND PROTECTION

A. Comply with manufacturer's written instructions for cleaning and protecting resilient products.

B. Perform the following operations immediately after completing resilient-product installation:
1. Remove adhesive and other blemishes from surfaces.
2. Sweep and vacuum horizontal surfaces thoroughly.
3. Damp-mop horizontal surfaces to remove marks and soil.

C. Protect resilient products from mars, marks, indentations, and other damage from construction operations and placement of equipment and fixtures during remainder of construction period.

D. Floor Polish: Remove soil, adhesive, and blemishes from resilient stair treads before applying liquid floor polish.
1. Apply per manufacturer's instructions.

E. Cover resilient products subject to wear and foot traffic until Substantial Completion.

END OF SECTION 09 65 10

SECTION 09 67 23 - RESINOUS FLOORING

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. This Section includes one resinous flooring system, one with epoxy body
1. Application Method: Metal, power or hand troweled.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
1. Review manufacturer's written instructions for substrate preparation and environmental conditions affecting resinous flooring installation.
2. Review details of integral cove bases.
3. Review manufacturer's written instructions for installing resinous flooring systems.
4. Review protection measures for adjacent construction and installed flooring, floor drainage requirements, curbs, base details, and so forth.

1.4 ACTION SUBMITTALS

A. Product Date: For each type of product, including DCOF data.
1. Include manufacturer's technical data, installation instructions, and recommendations for each resinous flooring component required.

B. Samples for Verification: For each resinous flooring system required and for each color and texture specified, 6 inches (150 mm) square, applied to a rigid backing in color and finish and topcoat indicated.

C. Product Schedule: Use resinous flooring designations indicated in Part 2 and room designations indicated on drawings in product schedule.

1.5 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Installer Certificates: Signed by manufacturer certifying that installers comply with specified requirements.
1. Installer shall be an established company with at least 3 years experience in the installation of polymer floors.
2. 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.

C. Material Certificates: For each resinous flooring component.
1. Dynamic Coefficient of Friction (DCOF): For each type of product: Certification shall include statement that products to be used on projects are appropriate for intended use, meet or exceed reference standards and the requirements of this specification, noting DCOF value for each product to be used.

D. Material Test Reports: For each resinous flooring system, by a qualified testing agency.

E. Field quality-control reports.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For resinous flooring to include in maintenance manuals.

1.7 QUALITY ASSURANCE

A. No request for substitution shall be considered that would change the generic type of floor system specified (i.e. epoxy mortar based system). Equivalent materials of other manufactures may be substituted only on approval of Architect or Engineer. Request for substitution will only be considered only if submitted 10 days prior to bid date. Request will be subject to specification requirements described in this Section.

B. Installer Qualifications: Engage an experienced installer (applicator) who is experienced in applying resinous flooring systems similar in material, design, and extent to those indicated for this Project, whose work has resulted in applications with a record of successful in-service performance, and who is acceptable to resinous flooring manufacturer.
1. Contractor shall have completed at least ten (10) projects of similar size and complexity.

C. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, through one source from a single manufacturer, with not less than ten years of successful experience in manufacturing and installing principal materials described in this Section. Provide secondary materials, including patching and fill material, joint sealant, and repair materials of type and from source recommended by manufacturer of primary materials.

D. Manufacturer Field Technical Service Representatives: Field Technical Services Representatives shall be employed by the system manufacturer to assist in the quality assurance and quality control process of the installation and shall be available to perform field problem solving issues with the installer.
1. Field Technical Services Represntatives shall be employed by the system manufacture to assist in the quliaty assurance and quality control process on the installtion and shall be available to perform field problem solving issues with the installer.

E. Mockups: Apply mockups to verify selections made under sample submittals, demonstrate aesthetic effects showing details including joints, and set quality standards for materials and execution.
1. Apply full-thickness mockups on 48-inch (1200 mm) square floor area selected by Architect.
2. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

F. Pre-installation Conference:
1. General Contractor shall arrange a meeting not less than thirty days prior to starting work.
2. Attendance:
   a. General Contractor.
   b. Architect/Owner's Representative.
   c. Manufacturer/Installer's Representative.

G. ISO 9001-2008: All materials, including primers, resins, curing agents, finish coats, aggregates and sealants are manufactured and tested under an ISO 9001 registered quality system.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Material shall be delivered to job site and checked by flooring contractor for completeness and shipping damage prior to job start. Deliver materials in original packages and containers, with seals unbroken, bearing manufacturer's lables indicating brand name and directions for storage and mixing with other components.

B. Store components protected from exposure to harmful weather conditions and in a temperature controlled area as recommended by manufacturer. Do not allow product to freeze.

C. Deliver products to areas to receive moisture treatment at least 48 hours prior to application to allow them to acclimate to the space.

D. All materials used shall be factory pre-weighed and pre-packaged in single, easy to manage batches to eliminate onsite mixing errors. No onsite weighing or volumetric measurements allowed.

1.9 ENVIRONMENTAL CONDITIONS

A. Environmental Limitations: Comply with resinous flooring manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting resinous flooring application.
1. Maintain material and substrate temperature between 65 and 85°F (18 and 30°C) during resinous flooring application and for not less than 24 hours after application.

B. Lighting: Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during resinous flooring application.

C. Close spaces to traffic during resinous flooring application and for not less than 24 hours after application unless manufacturer recommends a longer period.

D. Precautions shall be taken to avoid damage or contamination of any surfaces near the work zone.

E. Concrete substrate shall be properly cured. A vapor barrier must be present for concrete subfloors on or below grade. Otherwise, an osmotic pressure resistant grout must be installed prior to the resinous flooring.

F. Protection: Precautions shall be taken to avoid damage or contamination of any surfaces near the work zone.

G. Do not install product of this Section until one (1) week after building is enclosed and weatherproof, wet work in space is completed and nominally dry, and HVAC system is operating and maintaining temperature and relative humidity at occupancy levels during the remainder of the construction period.

1.10 WARRANTY

A. Manufacturer shall furnish a single, written warranty covering both material and workmanship for a period of one (1) full year from date of installation or provide a joint and several warranty signed on a single document by material manufacturer and applicator jointly and severally warranting the materials and workmanship for a period of one (1) full year from date of installation. A sample warranty letter must be included with bid package or bid may be disqualified.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Dynamic Coefficient of Friction (DCOF): For walkway surfaces, provide products with a value greater than 0.42 as determined by testing identical products by DCOF AcuTest Method per ANSI A137.1, and A326.3, 2017 editions.

B. Flammability: Self-extinguishing in accordance with ASTM D635.

2.2 RESINOUS FLOORING

A. Resinous Flooring System: Abrasion-, impact-, and chemical-resistant, aggregate-filled, resin- based monolithic floor surfacing designed to produce a seamless floor and integral cove base.

B. Acceptable Manufactures: Subject to compliance with requirements.
1. Basis of Design: Aiflooring, 1218 West 41 Street, Suite B, Tulsa, Oklahoma, 74107.
   Telephone: (918) 445.0627. HYPERLINK "http://www.aiflooring.com/"Website:www.aiflooring.com.

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

D. Source Limitations: Obtain primary resinous flooring materials, including primers, resins, hardening agents, grouting coats, and topcoats, from single manufacturer. Obtain secondary materials including patching and fill material, joint sealant, and repair materials, of type and from manufacturer of primary materials.

2.3 ACCESSORY MATERIALS

A. Patching, Leveling and Fill Material: Resinous product of or approved by resinous flooring manufacturer and recommended by manufacturer for application indicated.

B. Joint Sealant: Type recommended or produced by resinous flooring manufacturer for type of service and joint condition indicated. Allowances should be included for Stonflex MP7 joint fill material.

PART 3 – EXECUTION

3.1 EXAMINATION

A. Examine substrates, with Installer present, for compliance with requirements for maximum moisture content and other conditions affecting performance of the Work.
1. Verify that finishes of substrates comply with tolerances and other requirements specified in other Sections and that substrates are free of cracks, ridges, depressions, scale, and foreign deposits that might interfere with adhesion of resinous flooring systems.

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

3.2 PREPARATION

A. General: Prepare and clean substrates according to resinous flooring manufacturer's written instructions for substrate indicated. Provide clean, dry, and neutral Ph substrate for resinous flooring application.

B. Concrete Substrates: Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with resinous flooring.
1. Mechanically prepare substrates as follows:
   a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and re-circulates the shot by vacuum pickup.
   b. Comply with requirements in SSPC-SP 13/NACE No. 6 with a Concrete Surface Profile of 3 or greater in accordance with ICRI Technical Guidline No. 310.2R, unless manufacturer's written instructions are more stringent.
2. Repair damaged and deteriorated concrete according to resinous flooring manufacturer's written recommendations.
3. Verify that concrete substrates meet the following requirements.
   a. Perform in situ probe test, ASTM F 2170. Proceed with application only after substrates do not exceed a maximum potential equilibrium relative humidity of 85 percent.
   b. Perform anhydrous calcium chloride test, ASTM F 1869. Proceed with application only after substrates have maximum moisture-vapor-emission rate of 6 lb of water/1000 sq. ft. of slab in 24 hours.
   c. Perform additional moisture tests recommended by manufacturer. Proceed with application only after substrates pass testing.
4. Verify that concrete substrates have neutral Ph and that resinous flooring will adhere to them. Perform tests recommended by manufacturer. Proceed with application only after substrates pass testing.

C. Use patching and fill material to fill holes and depressions in substrates according to manufacturer's written instructions.

D. Treat control joints and other non-moving substrate cracks to prevent cracks from reflecting through resinous flooring according to manufacturer's written recommendations.

E. Resinous Materials: Mix components and prepare materials according to resinous flooring manufacturer's written instructions.

3.3 INSTALLATION

A. General: Apply components of resinous flooring system according to manufacturer's written instructions to produce a uniform, monolithic wearing surface of thickness indicated.
1. Coordinate application of components to provide optimum adhesion of resinous flooring system to substrate, and optimum intercoat adhesion.
2. Cure resinous flooring components according to manufacturer's written instructions.
   Prevent contamination during application and curing processes.

3. At substrate expansion and isolation joints, provide joint in resinous flooring to comply with resinous flooring manufacturer's written recommendations.
   a. Apply joint sealant to comply with manufacturer's written recommendations.

B. Primer: Apply primer where required by resinous system, over prepared substrate at manufacturer's recommended spreading rate.

C. Self-Leveling Body Coats: Apply self-leveling slurry body coats in thickness specified for flooring system.

D. Apply metal trowel single mortar coat in thickness indicated for flooring system. Hand or power trowel and grout to fill voids. When cured, sand to remove trowel marks and roughness.

E. Apply topcoat(s) in number of coats indicated for flooring system and at spreading rates recommended in writing by manufacturer.

3.4 TERMINATIONS/TRANSITIONS

A. Chase edges to "lock" the flooring system into the concrete substrate along lines of termination.

B. Penetration Treatment: Lap and seal flooring system onto the perimeter of the penetrating item by bridging over compatible elastomer at the interface to compensate for possible movement.

C. Trenches: Continue flooring system into trenches to maintain monolithic protection. Treat cold joints to assure bridging of potential cracks.

D. Treat floor drains by chasing the flooring system to lock in place at point of termination.

3.5 JOINTS AND CRACKS

A. Treat control joints to bridge potential cracks and to maintain monolithic protection.

B. Treat cold joints and construction joints to bridge potential cracks and to maintain monolithic protection on horizontal and vertical surfaces as well as horizontal and vertical interfaces.

C. Vertical and horizontal contraction and expansion joints are treated by installing backer rod and compatible sealant after coating installtion is completed. Provide sealant type recommended by manufacturer for traffic conditions and chemical exposures to be encountered.

3.6 FIELD QUALITY CONTROL

A. Material Sampling: Owner may at any time and any number of times during resinous looring application require material samples for testing for compliance with requirements.
1. Owner will engage an independent testing agency to take samples of materials being used. Material samples will be taken, identified, sealed, and certified in presence of Contractor.
2. Testing agency will test samples for compliance with requirements, using applicable referenced testing procedures or, if not referenced, using testing procedures listed in manufacturer's product data.
3. If test results show applied materials do not comply with specified requirements, pay for testing, remove non-complying materials, prepare surfaces coated with unacceptable materials, and reapply flooring materials to comply with requirements.

B. Core Sampling, At Owner's direction and at locations designated by Owner, take one core sample per 1000 sq. ft (92.9 sq.m) of resinous flooring, or portion of, to verify thickness. For each sample that fails to comply with requirements, take two additional samples. Repair damage caused by coring. Correct deficiencies in installed flooring as indicated by testing.

3.7 CLEANING, PROTECTING, AND CURING

A. Cure resinous flooring materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of application and prior to completion of curing process. Close area of application for a minimum of 18 hours.

B. Protect resinous flooring materials from damage and wear during construction operation.
Where temporary covering is required for this purpose, comply with manufacturer's recommendations for protective materials and method of application. General Contractor is responsible for protection and cleaning of surfaces after final coats.

C. Cleaning: Remove temporary covering and clean resinous flooring just prior to final inspection.
Use cleaning materials and procedures recommended by resinous flooring manufacturer.

END OF SECTION 09 67 23

SECTION 09 78 23 - PHENOLIC INTERIOR WALL PANELING

PART 1 - GENERAL

1.1 SUMMARY

A. Section Includes:
1. Phenolic interior wall paneling.
2. Accessories.

1.2 RELATED SECTIONS

A. Division 01: Administrative, procedural and temporary work requirements.

B. Section 06 10 00 - Rough Carpentry

C. Section 06 40 23 – Interior Architectural Woodwork

D. Section 07 92 00 - Joint Sealants

E. Section 09 29 00 - Gypsum Board

1.3 REFERENCES

A. Standards: Materials and construction shall conform to the following
1. ASTM D638 -10 Standard Test Method for Tensile Properties of Plastics
2. ASTM D790 -10 Standard Test Methods for Flexural Properties of Unreinforced and Reinforced Plastics and Electrical Insulating Materials.
3. ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
4. NEMA Standards Publication LD3-2005. High pressure decorative laminates.

1.4 ACTION SUBMITTALS

A. Shop Drawings: Include size, panel layout, trim, accessories, supports and attachments.

B. Product Data: Technical data, physical properties and installation instructions for each component.

C. Samples: Submit manufacturers finished samples 12-inch x 12-inch in specified color.

D. Warranty:

1. Manufacturers warranty certificate.
2. Installers written warranty statement.

1.5 INFORMATIONAL SUBMITTALS

A. Installer: Installation experience statement.

B. Testing and Evaluation Reports: Independent testing laboratory for the following for ASTM E84.

1.6 QUALITY ASSURANCE

A. Manufacturer Qualifications:
1. Sufficient plant facilities to provide quality and quantity of materials as required without delaying progress of work.
2. Minimum of 40 years successful experience producing phenolic materials.
3. Domestic factory assembly, shop fabrication and pre-finishing

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 Qualifications:
1. Minimum 5-years documented installation experience of specified materials.
2. Approved by the manufacturer.

D. Single Source Responsibility: Source from a single manufacturer for all components.

E. Pre-Installation Conference: Convene to review the following:
1. Areas of installation.
2. Framing and rough carpentry.
3. Connections to adjacent surfaces and transitions.
4. Structural requirements and anchoring locations.

F. Mock-Up:
1. Full-size [8-foot x 8-foot] mock up erected at site, to verify color, workmanship and installation details.
2. Complete assembly, color, sheen and model.

1.7 DELIVERY, STORAGE, AND HANDLING

A. Deliver, store, and handle materials following manufacturer instructions. Maintain relative humidity levels of 35 to 65-percent during installation.

B. Immediately upon delivery notify manufacturer of damaged or defective materials for replacement.
1. Verify manufactures labels meet approved product name, color, texture and finish.

C. Storage:
1. Keep panels dry and stored indoors in original packaging until installation.
   a. Maintain relative humidity levels of 35 to 65-percent during 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. Protect surface of paneling from scratches during handling, machining, and installation.

1.8 WARRANTY

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

B. PROJECT CONDITIONS
1. Environmental Limitations: Buildings are to be fully enclosed prior to installation with sufficient heat (70 degrees) and ventilation consistent with good working condition for finish work.
2. 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.
3. 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.

1.9 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 condition 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.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design: Fiberesin Industries, Inc. N48W37031 E. Wisconsin Avenue, Oconomowoc, WI Toll Free: (262) 567- 4427 www.stonewoodpanels.com; email: HYPERLINK "mailto:info@fiberesin.com"info@fiberesin.com

B. Substitutions: Not permitted.

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 MATERIALS

A. Phenolic Interior Wall Cladding: Solid phenolic laminate panel with clear abrasion resistant overlay.
1. Style: Solid phenolic laminate panel w/o overlay.
2. Color: Black ND
3. Finish: Matte
4. Standard Size: 48"x96", fabricator to trim height to 47".
5. Thickness: 5/16-inch, 1/2-inch
6. Panel Core: HR Black

B. Physical Properties
1. NEMA Requirements:

Property	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	

C. 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

Consultant:

IA INTERIOR ARCHITECTS

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500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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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

C. Chemical Resistance Testing
1. SEFA 8-PH, Section 8.1: Pass Testing/ SEFA 8 Compliant

2.4 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.

PART 3 - EXECUTION

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. Examine materials, installation instructions, and review manufacturers instructions on site.

B. Verify correct panel style, color, texture, fasteners, attachment system, dimension, and tolerance are approved by Architect.

C. Verify substrates and adjacent surfaces are level and plumb for installation.

D. Do not begin work until construction has progressed to allow installation of materials.
1. Verify manufacturers fastener spacing requirements.

E. Allow panels to acclimate to interior conditions for a minimum of 24 hours.

F. Proceed with work when construction has progressed to allow a warranted installation.
1. Installation deems acceptance of work for a warranted installation.

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. Install in accordance with manufacturers written instructions and Shop Drawings, maintaining ventilation spacing requirement.

B. Fasten panels to an approved attachment system structurally supported by aluminum, galvanized steel or wood stud supported wall.

C. Install panel square, edges clean and true to size.
1. Cut panels to fit at perimeter and around penetrations with minimum 1/4-inch gap.

D. Install to allow hydro-thermal expansion/contraction.

E. Use appropriate techniques/tools to work with the panel.

F. Do not force to fit, do not bend, stretch/compress.

G. Make cutting and fitting neat, square, and true. Where required cut, de-burr edges, and clean filings from adjacent surfaces.

H. Install solid phenolic wall panels plumb and level and accurately spaced.

I. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.

J. Shim or otherwise plumb substrates receiving composite wall panels.

K. Do not use construction adhesives to apply wall panels directly to substrates or wall board.
Use mechanical fasteners only.

L. Do not install damaged, irregular or defective panels.

3.5 ERECTION TOLERANCES:

A. Shim and align composite wall panel units within installed tolerance of 1/4 inch to 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 written instructions and installation manual, shop drawings.

B. Inspect panel ventilation at top and bottom of wall, and manufacturers installation instructions have been followed.

C. Verify installation, fasteners and connections with adjacent materials, and transitions have been completed in accordance with shop drawings.

3.7 ADJUSTING

A. Modify, adjust and replace panels not within manufacturers tolerances and as required by Architect.

B. Replace damaged soiled, and discolored work.

3.8 CLEANING AND PROTECTION

A. Leave installation clean and free from residue and debris from work of this Section.

B. B. Panels best cleaned with warm soapy water and rinsed with clear water; allowed to dry fully.

C. Protect surface, corners and components from damage prior to Owner occupancy using temporary protection.

END OF SECTION 09 78 23

SECTION 09 90 00 - PAINTING AND COATING

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Interior painting and coating systems.

B. Surface preparation, priming, and finish coats specified in this Section are in addition to shop priming and surface treatment specified in other Sections.

C. Surfaces not to be painted:
1. Pre-finished wall, ceiling and floor coverings.
2. Items with factory-applied final finish.
3. Concealed ducts, pipes and conduit.
4. Surfaces specifically scheduled or noted on Drawings not to be painted.

1.2 SUBMITTALS

A. See Section 01 30 00 - Administrative Requirements for submittal procedures.

B. Product Data: Provide complete list of products to be used, with the following information for each:
1. Product characteristics.
2. Surface preparation instructions and recommendations.
3. Primer requirements and finish specification.
4. Storage and handling requirements and recommendations.
5. Application methods.
6. Clean-up information.

C. Color Samples:

1. For each paint system specified, submit samples that represent actual product, color and sheen of topcoat.
2. When requested by the Architect, apply a field sample of one complete coating system for each color, gloss and texture required.

1.3 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing the products specified, with a minimum of five years documented experience.

B. Applicator Qualifications: Company specializing in performing the type of work specified with minimum 3 years experience and approved by manufacturer.

1.4 DELIVERY, STORAGE, AND HANDLING

A. Deliver products to site in sealed and labeled containers; inspect to verify acceptability.

B. Container Label: Include manufacturer's name, type of paint, product name, product code, color designation, VOC content, batch date, environmental handling, surface preparation, application, and use instructions.

C. Paint Materials: Store at a minimum of 45 degrees F and a maximum of 90 degrees F, in ventilated area, and as required by manufacturer's instructions.

D. Handling: Maintain a clean, dry storage area to prevent contamination or damage to materials.

1.5 FIELD CONDITIONS

A. Do not apply exterior materials during fog, rain, mist, or when inclement weather is expected within the dry time specified by the manufacturer.

B. Do not commence exterior or interior painting until the surfaces are thoroughly dry and cured.
Follow the manufacturer's instructions and precautions, including testing of moisture in substrates and humidity and temperature limitations.

C. Do not apply materials when environmental conditions are outside the ranges required by manufacturer. Avoid painting surfaces in direct sunlight.

D. Follow manufacturer's recommended procedures for producing the best results, including testing of substrates, moisture in substrates, and humidity and temperature limitations.

PART 2 PRODUCTS

2.1 MANUFACTURERS

A. Basis of Design Products: Subject to compliance with requirements, provide PPG Industries, Inc.

2.2 PAINTINGS AND COATINGS

A. General:
1. Provide factory-mixed coatings unless otherwise indicated.
2. Material Compatibility: Provide 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.
3. When required, mix coatings to correct consistency in accordance with manufacturer's instructions before application.
4. Do not reduce, thin, or dilute coatings or add materials to coatings unless specifically indicated in manufacturer's instructions.
5. Number of coats scheduled is minimum. Apply additional coats at no additional cost if necessary to completely hide base materials, produce uniform color, and provide satisfactory finish result.

B. Accessory Materials: Provide primers, sealers, cleaning agents, cleaning cloths, sanding materials, and clean-up materials as required for final completion of painted surfaces.

2.3 PAINT SYSTEMS - INTERIOR

A. Interior Metals: (Doors, door frames, where indicated)
1. 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.
2. 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.)
3. 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.
4. Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

B. Interior Metals: (Metal Deck if indicated on Finish Plan)
1. 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.
2. 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.)
3. 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.
4. Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

C. Interior Gypsum Board:
1. 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.
2. 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.)
3. 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.
4. Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

D. Interior Wood Trim and Plywood -Clear Polyurethane Finish: (Plywood finishes shall be shop applied in a controlled environment)
1. Shop Preparation: Scuff sand between coats.
2. Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
3. Application: Spray
4. Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.
5. Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
6. Application: Wipe on with t-shirt rag.

2.4 COLOR GUIDE:

A. Exterior and Interior Gas Piping, Where Exposed
1. PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series
2. Match surrounding finishes / verify with architect
3. Semi-Gloss

B. Interior Doors, Door Frames, Rails and Rail Frames, Where Specified
1. PPG Breakthrough 50 Acrylic Satin
2. PPG V51-90 Black
3. Satin

C. Interior Ferrous Metals, Where Specified
1. PPG Breakthrough 250 Acrylic Eggshell V50-410 Series
2. PPG 1013-5 "Victorian Pewter"
3. Eggshell

D. Dining Room and Hallway Gypsum Board
1. PPG Pure Performance Zero VOC Semi-Gloss 9-500 as indicated on finish plan
2. PPG 1001-3 "Thin Ice"
3. Semi-Gloss P4

E. Dining Room and Hallway Gypsum Board
1. PPG Pure Performance Zero VOC Eggshell 9-310 as indicated on finish plan.
2. PPG 1001-3 "Thin Ice"
3. Eggshell

F. Dining Room and Hallway Gypsum Board Ceiling
1. PPG Pure Performance Zero VOC Flat 9-100 Series or PPG Speedhide 6-4110XI Flat
2. PPG 1041-1 "Moonlit Snow"
3. Flat

G. Restroom, Cooking, Kitchen and Serving Area Soffit Gypsum Board
1. PPG Pure Performance Zero VOC Eggshell 9-500 Series
2. PPG 1041-1
3. Eggshell

H. Interior Metal Roof Deck and Metal Columns
1. PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series
2. PPG 1013-5 "Victorian Pewter"
3. Satin

PART 3 EXECUTION

3.1 EXAMINATION

A. Verify that surfaces are ready to receive work as instructed by the product manufacturer.

B. Examine surfaces scheduled to be finished prior to commencement of work. Report any condition that may potentially effect proper application.

C. Test shop-applied primer for compatibility with subsequent cover materials.

3.2 PREPARATION

A. Clean surfaces thoroughly and correct defects prior to application.

B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

C. Remove mildew from impervious surfaces by scrubbing with solution of water and bleach.
Rinse with clean water and allow surface to dry.

D. Concrete:
1. Remove release agents, curing compounds, efflorescence, and chalk.
2. Fill bug holes, air pockets, and other voids with cement patching compound.
3. Prepare concrete according to SSPC-SP 13.

E. Cementitious Siding: Remove dirt, dust and other foreign matter. Pressure clean, if needed, to remove grease, oil, and loose particles.

F. Gypsum Board: Fill minor defects with filler compound; sand smooth and remove dust prior to painting.

G. Plaster: Fill hairline cracks, small holes, and imperfections with patching plaster. Make smooth and flush with adjacent surfaces. Treat textured, soft, porous, or powdery surfaces in accordance with manufacturer's instructions.

H. Concrete Floors and Traffic Surfaces: Prepare concrete according to SSPC-SP 13.

I. Aluminum: Remove surface contamination and oil; wash with solvent according to SSPC-SP 1.

J. Galvanized Surfaces:
1. Remove surface contamination and oils and wash with solvent according to SSPC-SP 1.
2. Prepare surface according to SSPC-SP 2.

K. Ferrous Metal:
1. Shop-Primed Surfaces: Sand and scrape to remove loose primer and rust. Feather edges to make touch-up patches inconspicuous. Prime bare steel surfaces.
2. Remove rust, loose mill scale, and other foreign substances using methods recommended by paint manufacturer and blast cleaning according to SSPC-SP 6. Protect from corrosion until coated.

L. Wood: Remove dust, grit, and foreign matter. Scrape, sand, and spot prime knots and pitch streaks. Fill nail holes and imperfections with wood filler and sand smooth.

3.3 APPLICATION

A. Remove unfinished louvers, grilles, covers, and access panels on mechanical and electrical components and paint separately.

B. Apply products in accordance with manufacturer's written instructions.

C. Apply coatings at spread rate required to achieve manufacturer's recommended dry film thickness.

D. Regardless of number of coats specified, apply additional coats until complete hide is achieved.

3.4 PRIMING

A. Apply primer to all surfaces unless specifically not required by coating manufacturer. Apply in accordance with coating manufacturer's instructions.

B. Primers specified in painting schedules may be omitted on items that are factory primed or factory finished if acceptable to top coat manufacturers.

3.5 CLEANING

A. Collect waste material that could constitute a fire hazard, place in closed metal containers, and remove daily from site.

B. Clean surfaces immediately of overspray, splatter, and excess material.

C. After coating has cured, clean and replace finish hardware, fixtures, and fittings previously removed.

3.6 PROTECTION

A. Protect finished coatings from damage until completion of project.

B. Touch-up damaged finishes after Substantial Completion.

END OF SECTION 09 90 00

SECTION 10 28 00 - TOILET ROOM ACCESSORIES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Public-use washroom accessories.
2. Childcare accessories.
3. Underlavatory guards.
4. Custodial accessories.

B. Related Requirements:
1. Section 08 83 00 - Mirrors for frameless mirrors.
2. Section 09 30 13 - Ceramic and Quarry Tiling for ceramic toilet and bath accessories.

1.3 COORDINATION

A. Coordinate accessory locations with other work to prevent interference with clearances required for access by people with disabilities, and for proper installation, adjustment, operation, cleaning, and servicing of accessories.

B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
2. Include anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
3. Include electrical characteristics.

B. Samples: Full size, for each exposed product and for each finish specified.
1. Approved full-size Samples will be returned and may be used in the Work.

C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
1. Identify locations using room designations indicated.
2. Identify accessories using designations indicated.

1.5 INFORMATIONAL SUBMITTALS

A. Sample Warranty: For manufacturer's special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Maintenance Data: For accessories to include in maintenance manuals.

1.7 WARRANTY

A. Manufacturer's Special Warranty for Mirrors: Manufacturer agrees to repair or replace mirrors that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, visible silver spoilage defects.
2. Warranty Period: 15 years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.2 PUBLIC-USE WASHROOM ACCESSORIES

A. Basis-of-Design Products: Refer to Schedule on the Drawings.

B. Toilet Tissue (Roll) Dispenser:
1. Description: Roll-in-reserve dispenser with hinged front secured with tumbler lockset.
2. Mounting: Recessed.
3. Operation: Noncontrol delivery with standard spindle.
4. Capacity: Designed for 4-1/2 inch or 5 inch- diameter tissue rolls.
5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).

C. Combination Towel (Folded) Dispenser/Waste Receptacle:
1. Description: Combination unit for dispensing C-fold or multifold towels, with removable waste receptacle.
2. Mounting: Recessed with projecting receptacle.
a. Designed for nominal 4 inch wall depth.
3. Minimum Towel-Dispenser Capacity: 600 C-fold or 800 multifold paper towels.
4. Minimum Waste-Receptacle Capacity: 4 gal..
5. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).
6. Liner: Reusable, vinyl waste-receptacle liner.
7. Lockset: Tumbler type for towel-dispenser compartment and waste receptacle.

D. Automatic Liquid-Soap Dispenser:
1. Description: Automatic dispenser with infrared sensor to detect presence of hands; battery powered; designed for dispensing antibacterial soap in liquid or lotion form.
2. Mounting: Wall mounted.
3. Refill Indicator: LED indicator.

E. Grab Bar:
1. Mounting: Flanges with concealed fasteners.
2. Material: Stainless steel, 0.05 inch thick.
a. Finish: Smooth, ASTM A480/A480M No. 4 finish (satin) on ends and slip-resistant texture in grip area.
3. Outside Diameter: 1-1/4 inches.
4. Configuration and Length: As indicated on Drawings.

F. Sanitary-Napkin Disposal Unit:
1. Mounting: Recessed.
2. Door or Cover: Self-closing, disposal-opening cover and hinged face panel with tumbler lockset.
3. Receptacle: Removable.
4. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).

G. Utility Shelf:
1. Description: Surface mounted shelf.
2. Nominal Size: 12 inches long by 6 inches wide.
3. Material and Finish: Stainless steel, ASTM A480/A480M No. 4 finish (satin).

H. Mirror Unit:
1. Frame: Stainless steel angle, 0.05 inch (1.3 mm) thick.
a. Corners: Manufacturer's standard.
2. Hangers: Produce rigid, tamper- and theft-resistant installation, using method indicated below. Selected from the following:
a. One-piece, galvanized-steel, wall-hanger device with spring-action locking mechanism to hold mirror unit in position with no exposed screws or bolts.
b. Wall bracket of galvanized steel, equipped with concealed locking devices requiring a special tool to remove.
3. Size: As indicated on Drawings.

2.3 CHILDCARE ACCESSORIES

A. Basis-of-Design Products: Refer to the Finish Schedule on the Drawings.

B. Diaper-Changing Station:
1. Description: Horizontal unit that opens by folding down from stored position and with child- protection strap.
a. Engineered to support minimum of 200 lb static load when opened.
2. Mounting: Surface mounted, with unit projecting not more than 4 inches (100 mm) from wall when closed.
3. Operation: By pneumatic shock-absorbing mechanism.
4. Material and Finish: HDPE in manufacturer's standard color.
5. Liner Dispenser: Built in.

Consultant:

INTERIOR ARCHITECTS

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2.4 UNDERLAVATORY GUARDS

A. Basis-of-Design Products: Refer to the Finish Schedule on the Drawings.

2.5 CUSTODIAL ACCESSORIES

A. Basis-of-Design Products: Refer to the Finish Schedule on the Drawings.

2.6 MATERIALS

A. Stainless Steel: ASTM A240/A240M or ASTM A666, Type 304, 0.031 inch minimum nominal thickness unless otherwise indicated.

B. Brass: ASTM B19, flat products; ASTM B16/B16M, rods, shapes, forgings, and flat products with finished edges; or ASTM B30, castings.

C. Steel Sheet: ASTM A1008/A1008M, Designation CS (cold rolled, commercial steel), 0.036 inch minimum nominal thickness.

D. Galvanized-Steel Sheet: ASTM A653/A653M, with G60 (Z180) hot-dip zinc coating.

E. Galvanized-Steel Mounting Devices: ASTM A153/A153M, hot-dip galvanized after fabrication.

F. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper- and-theft resistant where exposed, and of galvanized steel where concealed.

G. Chrome Plating: ASTM B456, Service Condition Number SC 2 (moderate service).

H. Mirrors: ASTM C1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.

2.7 FABRICATION

A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.

B. Keys: Provide universal keys for internal access to accessories for servicing and resupplying.
Provide minimum of six keys to Owner's representative.

PART 3 EXECUTION

3.1 INSTALLATION

A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.

B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to ASTM F446.

3.2 ADJUSTING AND CLEANING

A. Adjust accessories for unencumbered, smooth operation. Replace damaged or defective items.

B. Remove temporary labels and protective coatings.

C. Clean and polish exposed surfaces according to manufacturer's written instructions.

END OF SECTION 10 28 00

SECTION 10 44 16 - FIRE EXTINGUISHERS

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes portable, hand-carried fire extinguishers and mounting brackets for fire extinguishers.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.
1. Review methods and procedures related to fire extinguishers including, but not limited to, the following:
a. Schedules and coordination requirements.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product. Include rating and classification, material descriptions, dimensions of individual components and profiles, and finishes for fire extinguisher and mounting brackets.
B. Product Schedule: For fire extinguishers. Coordinate final fire-extinguisher schedule with fire- protection cabinet schedule to ensure proper fit and function. Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

A. Warranty: Sample of special warranty.

1.6 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For fire extinguishers to include in maintenance manuals.

1.7 COORDINATION

A. Coordinate type and capacity of fire extinguishers with fire-protection cabinets to ensure fit and function.

1.8 WARRANTY

A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace fire extinguishers that fail in materials or workmanship within specified warranty period.
1. Failures include, but are not limited to, the following:
a. Failure of hydrostatic test according to NFPA 10 when testing interval required by NFPA 10 is within the warranty period.
b. Faulty operation of valves or release levers.
2. Warranty Period: Six years from date of Substantial Completion.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. NFPA Compliance: Fabricate and label fire extinguishers to comply with NFPA 10, "Portable Fire Extinguishers."

B. Fire Extinguishers: Listed and labeled for type, rating, and classification by an independent testing agency acceptable to authorities having jurisdiction.
1. Provide fire extinguishers approved, listed, and labeled by FM Global.

2.2 PORTABLE, HAND-CARRIED FIRE EXTINGUISHERS

A. Fire Extinguishers: Type, size, and capacity for each fire-protection cabinet indicated.
1. Source Limitations: Obtain fire extinguishers, fire-protection cabinets, and accessories, from single source from single manufacturer.
2. Valves: Manufacturer's standard.
3. Handles and Levers: Manufacturer's standard.
4. Instruction Labels: Include pictorial marking system complying with NFPA 10, Appendix B, and bar coding for documenting fire-extinguisher location, inspections, maintenance, and recharging.

B. Multipurpose Dry-Chemical Type in Steel Container: UL-rated 1-A:10-B:C, 2.5-lb (1.1-kg) nominal capacity, with monoammonium phosphate-based dry chemical in enameled-steel container.

C. Purple-K Dry-Chemical Type in Aluminum Container: UL-rated 10-B:C, 2.5-lb (1.1-kg) nominal capacity, with potassium bicarbonate-based dry chemical in enameled-aluminum container.

2.3 MOUNTING BRACKETS

A. Mounting Brackets: Manufacturer's standard steel, designed to secure fire extinguisher to wall or structure, of sizes required for types and capacities of fire extinguishers indicated, with plated or baked-enamel finish.
1. Source Limitations: Obtain mounting brackets and fire extinguishers from single source from single manufacturer.

B. Identification: Lettering complying with authorities having jurisdiction for letter style, size, spacing, and location. Locate as indicated by Architect.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine fire extinguishers for proper charging and tagging.
1. Remove and replace damaged, defective, or undercharged fire extinguishers.

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

3.2 INSTALLATION

A. General: Install fire extinguishers and mounting brackets in locations indicated and in compliance with requirements of authorities having jurisdiction.

B. Mounting Brackets: Fasten mounting brackets to surfaces, square and plumb, at locations indicated.

END OF SECTION 10 44 16

SECTION 12 24 13 - ROLLER WINDOW SHADES

PART 1 GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section Includes:
1. Manually operated roller shades.

B. Related Requirements:
1. Section 06 10 00 - Rough Carpentry for wood blocking and grounds for mounting roller shades and accessories.
2. Section 07 92 00 - Joint Sealants for sealing the perimeters of installation accessories for light-blocking shades with a sealant.

1.3 ACTION SUBMITTALS

A. Product Data: For each type of product.
1. Include construction details, material descriptions, dimensions of individual components and profiles, features, finishes, and operating instructions for roller shades.

B. Shop Drawings: Show fabrication and installation details for roller shades, including shadeband materials, their orientation to rollers, and their seam and batten locations.

C. Samples for Verification: For each type of roller shade.
1. Shadeband Material: Not less than 10 inches square. Mark interior face of material if applicable.
2. Roller Shade: Full-size operating unit, not less than 16 inches wide by 36 inches long for each type of roller shade indicated.
3. Installation Accessories: Full-size unit, not less than 10 inches long.

D. Product Schedule: For roller shades. Use same designations indicated on Drawings.

1.4 INFORMATIONAL SUBMITTALS

A. Qualification Data: For Installer.

B. Product Certificates: For each type of shadeband material.

C. Product Test Reports: For each type of shadeband material, for tests performed by a qualified testing agency.

1.5 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For roller shades to include in maintenance manuals.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
1. Roller Shades: Full-size units equal to 5 percent of quantity installed for each size, color, and shadeband material indicated, but no fewer than two units.

1.7 QUALITY ASSURANCE

A. Installer Qualifications: Fabricator of products.

B. 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.

C. Mockups: Build mockups to verify selections made under Sample submittals, to demonstrate aesthetic effects, and to set quality standards for fabrication and installation.
1. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.
2. Subject to compliance with requirements, approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

1.8 DELIVERY, STORAGE, AND HANDLING

A. Deliver roller shades in factory packages, marked with manufacturer, product name, and location of installation using same designations indicated on Drawings.

1.9 FIELD CONDITIONS

A. Environmental Limitations: Do not install roller shades until construction and finish work in spaces, including painting, is complete and dry and ambient temperature and humidity conditions are maintained at the levels indicated for Project when occupied for its intended use.

B. Field Measurements: Where roller shades are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication and indicate measurements on Shop Drawings. Allow clearances for operating hardware of operable glazed units through entire operating range. Notify Architect of installation conditions that vary from Drawings. Coordinate fabrication schedule with construction progress to avoid delaying the Work.

1.10 WARRANTY

A. 5 years agains defects in materials and workmanship.

B. 1 year for service call repairs and adjustments.

PART 2 PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

A. Accessibility Standard: Comply with applicable provisions in the USDOJ's "2010 ADA Standards for Accessible Design" and ICC A117.1.

1. MANUFACTURERS

A. Source Limitations: Obtain roller shades from single source from single manufacturer.

B. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
1. Insolroll Window Shading Systems, Inc. (800) 447.5534. Website: HYPERLINK "http://www.insolroll.com/"www.insolroll.com.

2.3 MANUALLY OPERATED SHADES

A. Manual Operating Mechanisms: Manufacturer's complete system and accessories suitable for conditions indicated, recommended by manufacturer for use with shade indicated, and as required for reliable operation without malfunction.

B. Chain-and-Clutch Operating Mechanisms: With continuous-loop bead chain and clutch that stops shade movement when bead chain is released; permanently adjusted and lubricated.

1. Bead Chains: Manufacturer's standard.
a. Loop Length: Full length of roller shade.
b. Limit Stops: Provide upper and lower ball stops.

2. Spring Lift-Assist Mechanisms: Manufacturer's standard for balancing roller shade weight and for lifting heavy roller shades.
a. Provide for shadebands that weigh more than 10 lb or for shades as recommended by manufacturer, whichever criterion is more stringent.

C. Rollers: Corrosion-resistant steel or extruded-aluminum tubes of diameters and wall thicknesses required to accommodate operating mechanisms and weights and widths of shadebands indicated without deflection. Provide with permanently lubricated drive-end assemblies and idle-end assemblies designed to facilitate removal of shadebands for service.
1. Direction of Shadeband Roll: Regular, from back (exterior face) of roller.

D. Mounting Hardware: Brackets or endcaps, corrosion resistant and compatible with roller mounting configuration, roller assembly, operating mechanism, installation accessories, and mounting location and conditions indicated.

E. Single Roller Shadebands:
1. Shadeband Material: Light-filtering fabric.
2. Shadeband Bottom (Hem) Bar: Steel or extruded aluminum. Enclosed in sealed pocket of shadeband material.

F. Installation Accessories:
1. Front Fascia: Aluminum extrusion that conceals front and underside of roller and operating mechanism and attaches to roller endcaps without exposed fasteners.
a. Shape: L-shaped.
b. Height: Manufacturer's standard height required to conceal roller and shadeband assembly when shade is fully open, but not less than 3 inches.
2. Exposed Headbox: Rectangular, extruded-aluminum enclosure including front fascia, top and back covers, endcaps, and removable bottom closure.
a. Height: Manufacturer's standard height required to enclose roller and shadeband assembly when shade is fully open, but not less than 3 inches.
3. Endcap Covers: To cover exposed endcaps.
4. Recessed Shade Pocket: Rectangular, extruded-aluminum enclosure designed for recessed ceiling installation; with front, top, and back formed as one piece, end plates, and removable bottom closure panel.
a. Height: Manufacturer's standard height required to enclose roller and shadeband assembly when shade is fully open, but not less than 4 inches.
b. Provide pocket with lip at lower edge to support acoustical ceiling panel.
5. Closure Panel and Wall Clip: Removable aluminum panel designed for installation at bottom of site-constructed ceiling recess or pocket and for snap-in attachment to wall clip without fasteners.
a. Closure-Panel Width: 2 inches.
6. Side Channels: With light seals and designed to eliminate light gaps at sides of shades as shades are drawn down. Provide side channels with shadeband guides or other means of aligning shadebands with channels at tops.
7. Bottom (Sill) Channel or Angle: With light seals and designed to eliminate light gaps at bottoms of shades when shades are closed.
8. Installation Accessories Color and Finish: As selected from manufacturer's full range.

2.4 SHADEBAND MATERIALS

A. Shadeband Material Flame-Resistance Rating: Comply with NFPA 701. Testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.

B. Light-Filtering Fabric: Woven fabric, stain and fade resistant.
1. Basis of Design Product: Solar Screen Shade Fabric: Insolroll woven fiberglass yarn.
2. Orientation on Shadeband: Up the bolt.
3. Openness Factor: 5 percent.
4. Color: Charcoal/Bronze color.

2.5 ROLLER SHADE FABRICATION

Product Safety Standard: 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.

PART 3 EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for installation tolerances, operational clearances, locations of connections to building electrical system, and other conditions affecting performance of the Work.

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

3.2 ROLLER SHADE INSTALLATION

A. Install roller shades level, plumb, and aligned with adjacent units according to manufacturer's written instructions.
1. Opaque Shadebands: Located so shadeband is not closer than 2 inches to interior face of glass. Allow clearances for window operation hardware.

B. Roller Shade Locations: At exterior windows.

3.3 ADJUSTING

A. Adjust and balance roller shades to operate smoothly, easily, safely, and free from binding or malfunction throughout entire operational range.

3.4 CLEANING AND PROTECTION

A. Clean roller shade surfaces, after installation, according to manufacturer's written instructions.

B. Provide final protection and maintain conditions, in a manner acceptable to manufacturer and Installer, that ensure that roller shades are without damage or deterioration at time of Substantial Completion.

C. Replace damaged roller shades that cannot be repaired, in a manner approved by Architect, before time of Substantial Completion.

3.5 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain motor-operated roller shades.

END OF SECTION 12 24 13

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
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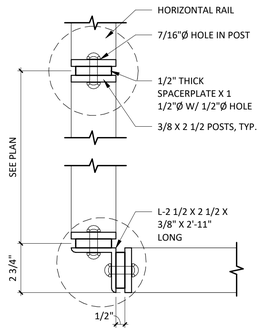
Contents:

ARCHITECTURAL SPECIFICATIONS

G030

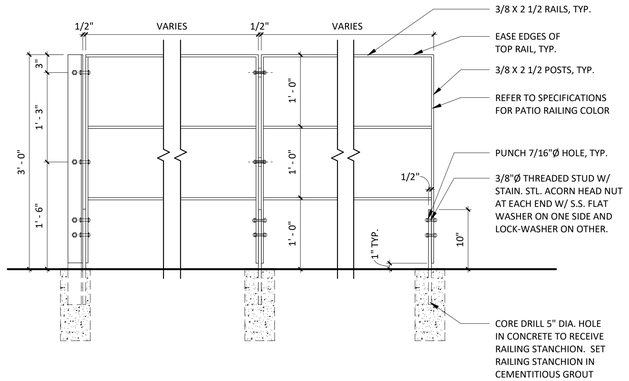


3 SP100 **RAILING PLAN DETAIL**

3" = 1'-0"

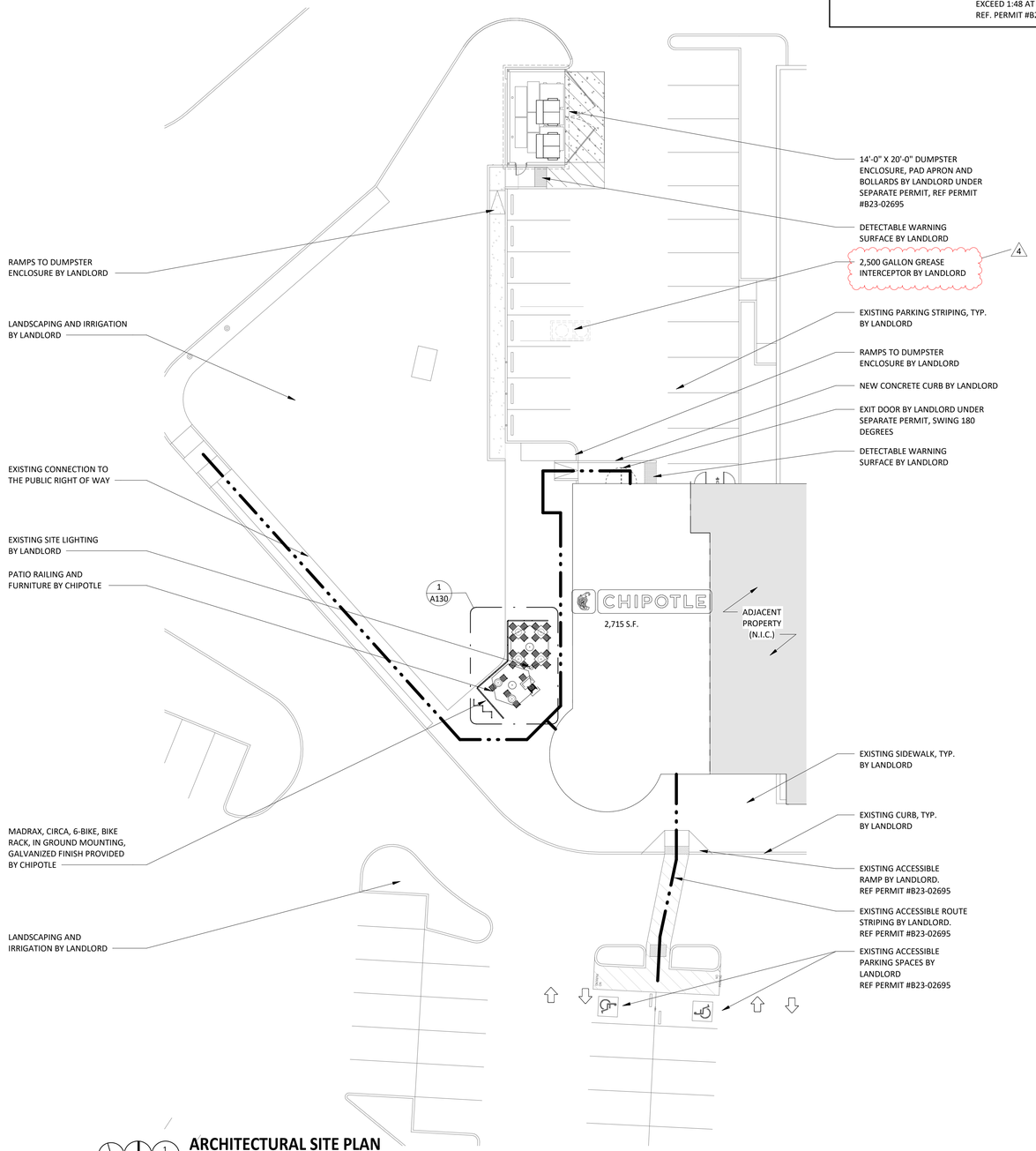
PER SECTION 1607 A.9 "LOADS ON HANDRAILS, GUARDS, GRAB BARS AND SEATS", 2022 CALIFORNIA BUILDING CODE:

GUARDS SHALL BE DESIGNED TO RESIST A LINEAR LOAD OF 50 POUNDS PER LINEAR FOOT (0.73 kN/M) IN ACCORDANCE WITH SECTION 4.5.1.1 OF ASCE 7.
GUARDS SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 200 POUNDS (0.89kN) IN ACCORDANCE WITH SECTION 4.5.1 OF ASCE 7.
GUARD INFILL COMPONENTS, INCLUDING ALL RAILS EXCEPT THE HANDRAIL AND THE TOP HANDRAIL, SHALL BE DESIGNED TO RESIST A CONCENTRATED LOAD OF 50 POUNDS (0.22 kN) IN ACCORDANCE WITH SECTION 4.5.1.2 OF ASCE 7.



2 SP100 **RAILING MOUNTING DETAIL**

1" = 1'-0"



1 SP100 **ARCHITECTURAL SITE PLAN**

1/16" = 1'-0"

TRUE NORTH PLAN NORTH

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. ALL SITE WORK INCLUDING PAVING, CURBING, PARKING, PARKING LOT LIGHTING, SIDEWALKS, LANDSCAPING AND DUMPSTER ENCLOSURE ARE EXISTING U.N.O.

SITE PLAN LEGEND

EXISITNG ACCESSIBLE PATH OF TRAVEL BY LANDLORD. SLOPE OF WALKING SURFACES NOT TO EXCEED 1:20 IN DIRECTION OF TRAVEL. CROSS SLOPE NOT TO EXCEED 1:48 AT ANY POINT. REF. PERMIT #B23-02695

Consultant:

INTERIOR ARCHITECTS

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Contents:

ARCHITECTURAL SITE PLAN

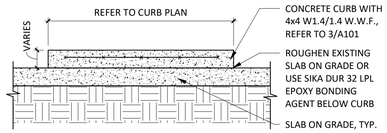
SP100

GENERAL NOTES

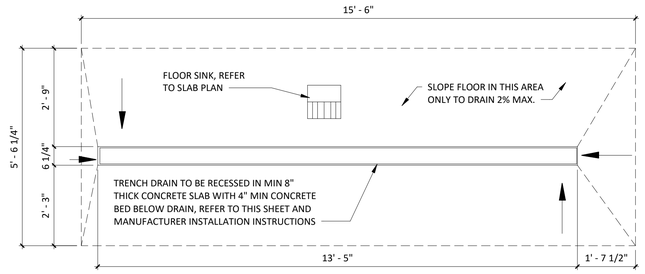
1.	VERIFY OVERALL INTERIOR DIMENSIONS, INTERIOR COLUMN PLACEMENTS, AND EXTERIOR WALL PENETRATIONS IN FIELD AND NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
2.	ALL DIMENSIONS ARE TO THE INSIDE FACE OF EXTERIOR WALLS.
3.	ALL DIMENSIONS ARE TO THE CENTERLINE OF FIXTURE UNLESS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

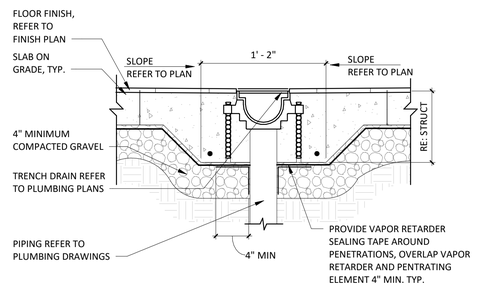
	FLOOR SINK
⊕	FLOOR DRAIN
	TRENCH DRAIN



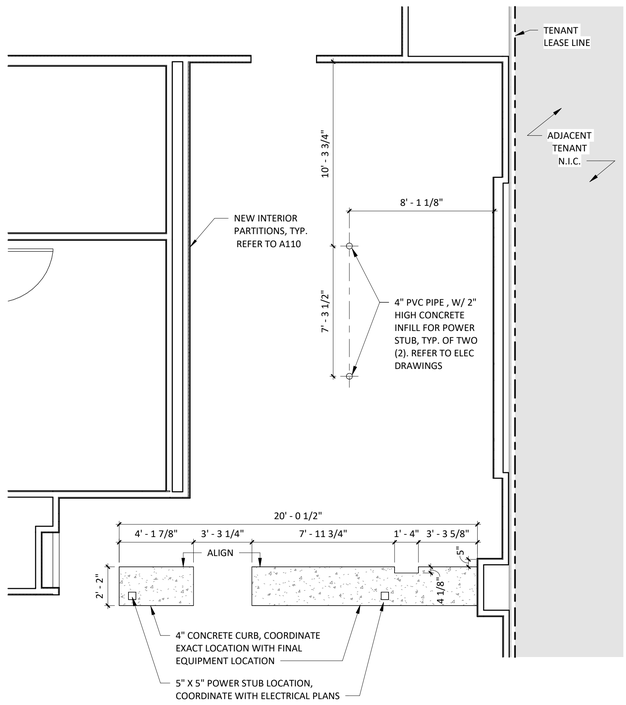
6 A101 CONCRETE CURB DETAIL
3/4" = 1'-0"



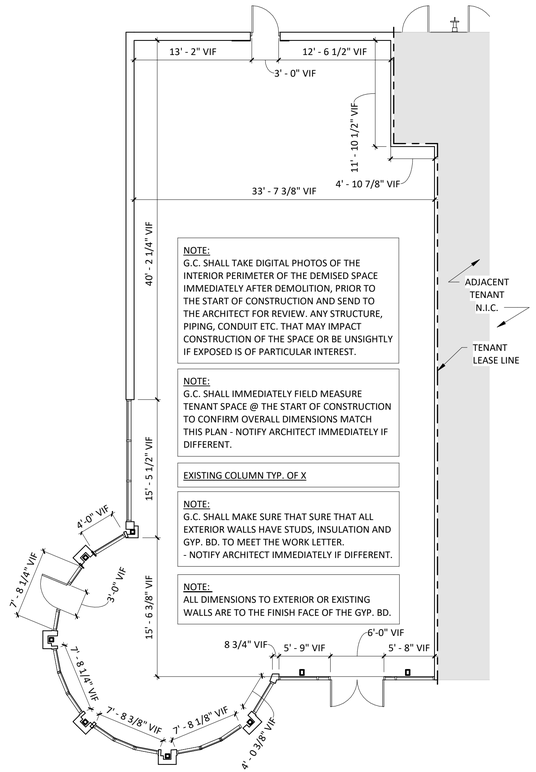
5 A101 TRENCH DRAIN PLAN DETAIL
1/2" = 1'-0"



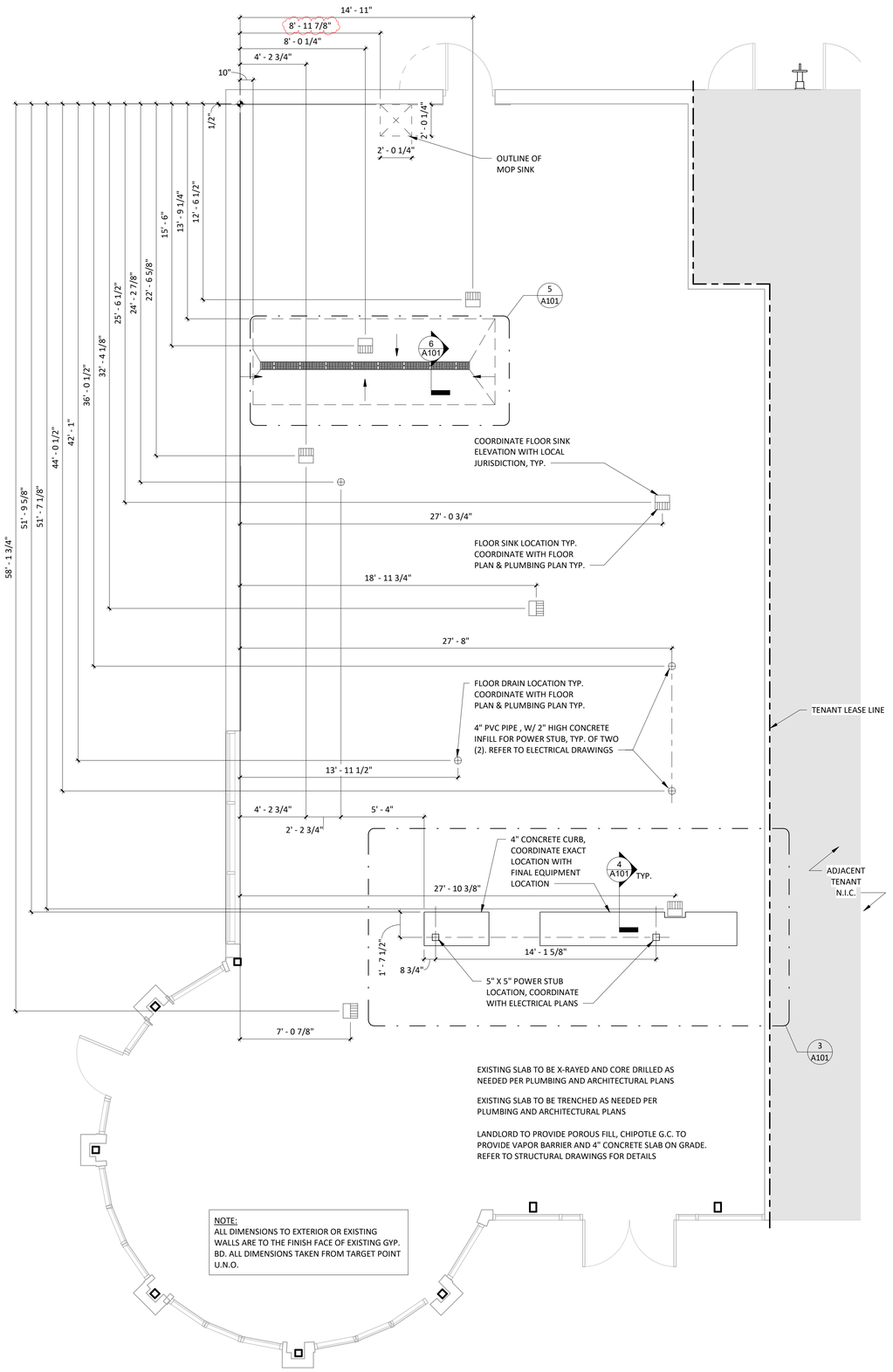
4 A101 TRENCH DRAIN DETAIL
1 1/2" = 1'-0"



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"

Consultant:

INTERIOR ARCHITECTS

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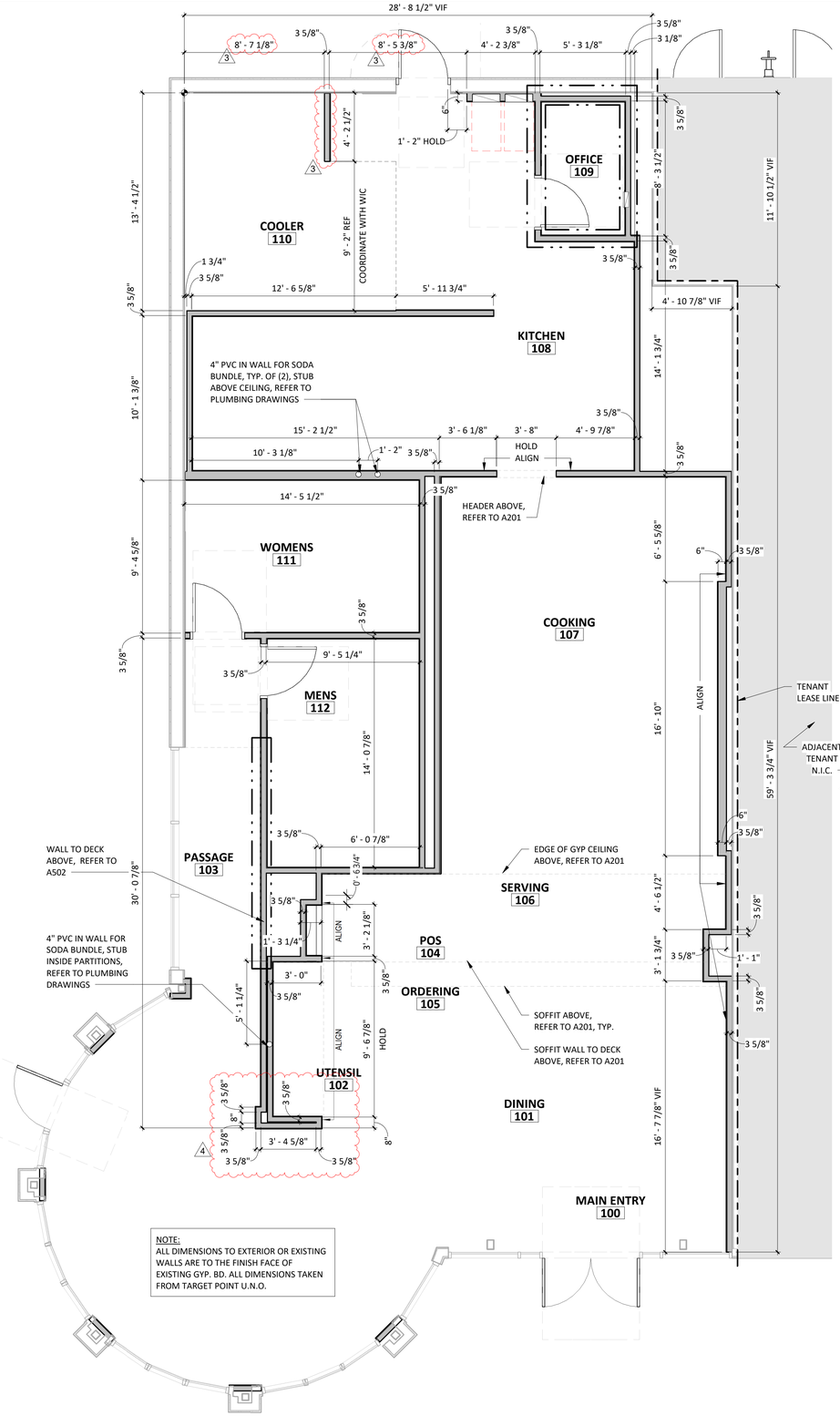
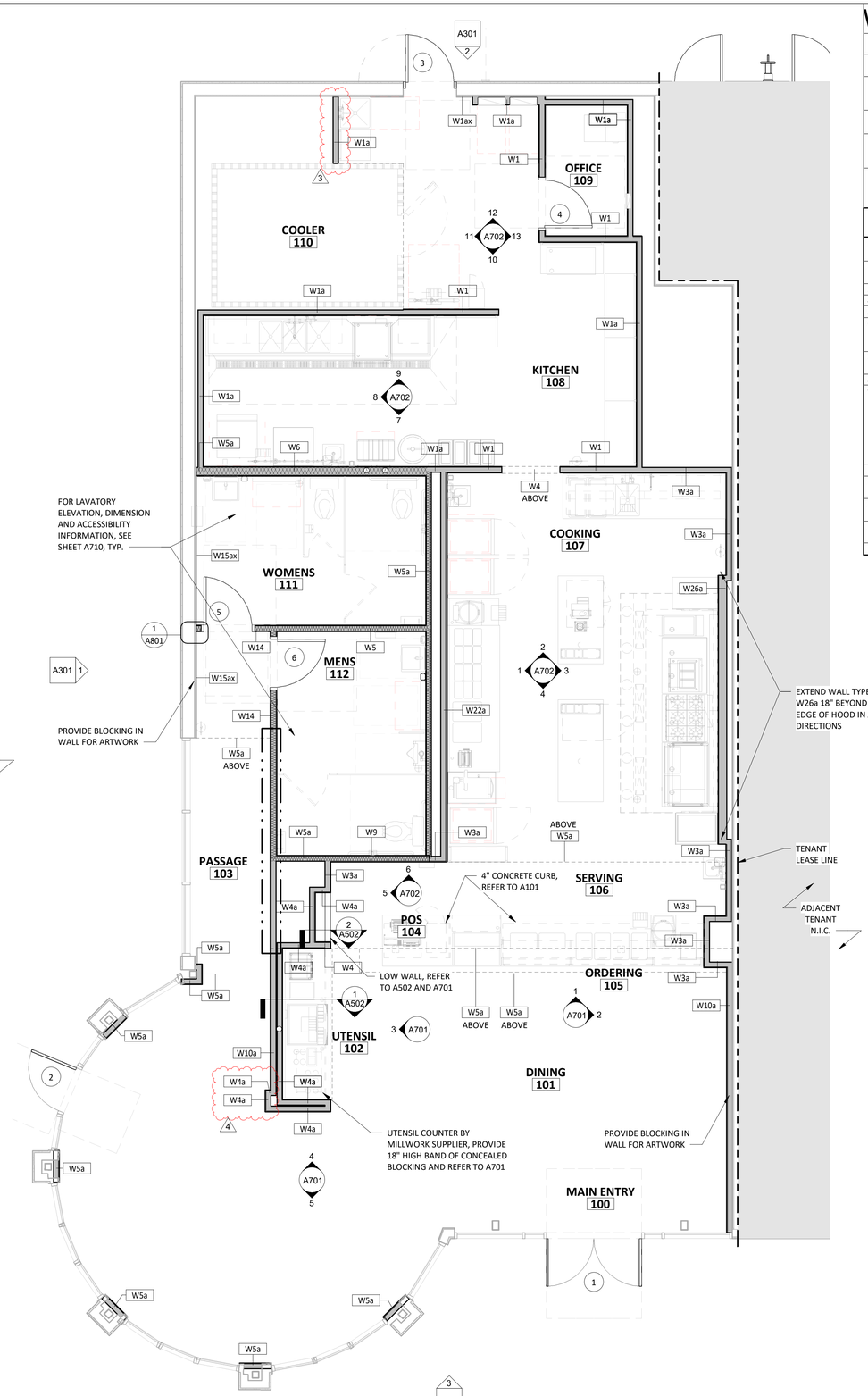
Contents:
SLAB WORK PLAN

A101



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



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

WALL TYPE LEGEND

NEW INTERIOR WALL CONSTRUCTION	
EXISTING EXTERIOR WALL CONSTRUCTION	
NEW INTERIOR WALL CONSTRUCTION WITH SOUND BATT INSULATION	
NEW WALK-IN COOLER	
DESIGNATES WALLS & SHEATHING TO EXTEND TO DECK	
DESIGNATES TWO (2) HOUR RATED ASSEMBLY RUN TIGHT TO DECK, REFER TO UL U#419 ON A501 FOR DETAILS.	

GENERAL NOTES

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

Consultant:
INTERIOR ARCHITECTS
SAN FRANCISCO
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Project No.
24CMGX.0025.000

Contents:
ARCHITECTURAL FLOOR PLAN

A110

CODED NOTES

1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802 & 11/A801.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM EDGE OVER MOP SINK RIM. BEND STAINLESS STEEL AT INSIDE CORNER SO THERE IS NO JOINT, REFER TO 17/A801.
5	NOT USED
6	COOLER WALL PANELS AS PROVIDED BY THE COOLER MANUFACTURER HAVE A 26-GAUGE COATED AND EMBOSSED STEEL FINISH.
7	G.C. TO PROVIDE 18 GAUGE STAINLESS STEEL SHROUD AROUND EXPOSED LINES AT THE ICE MAKER.
8	PROVIDE WATERPROOFING MEMBRANE, REFER TO 4&5/A802. PROVIDE ON INTERIOR OF ALL RESTROOM WALLS, REFER TO 18/A801.
9	PROVIDE QUARRY TILE ON TOP OF CURB FOR SMART SAFE. PROVIDE BULLNOSE TILE TO LAP OVER TOP CUT EDGE OF BASE TILE, REFER TO SHEET 1/802. 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	SURFACE MOUNTED WALK OFF MAT. INSTALL PER MANUFACTURER'S SPECIFICATIONS; REFER TO 21/A801 FOR DETAILS. EXTENT OF WALK-OFF MAT AREA TO MATCH FLOOR CLEARANCE AREA REQUIRED BY ADA. TAPERED FRAME TO BE INSTALLED OUTSIDE OF ADA AREA.
15	PROVIDE TOP CORNER AT TRANSITION FROM GYP BD CEILING TO FRP WALL REFER TO 9/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	BULLNOSE TILE TRANSITION WITH POLISHED CONCRETE, REFER TO PLAN.

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).

SMOOTH, DURABLE, EASILY CLEANABLE AND NONABSORBENT WALL AND CEILING FINISHES WILL BE REQUIRED IN THE FOLLOWING AREAS:

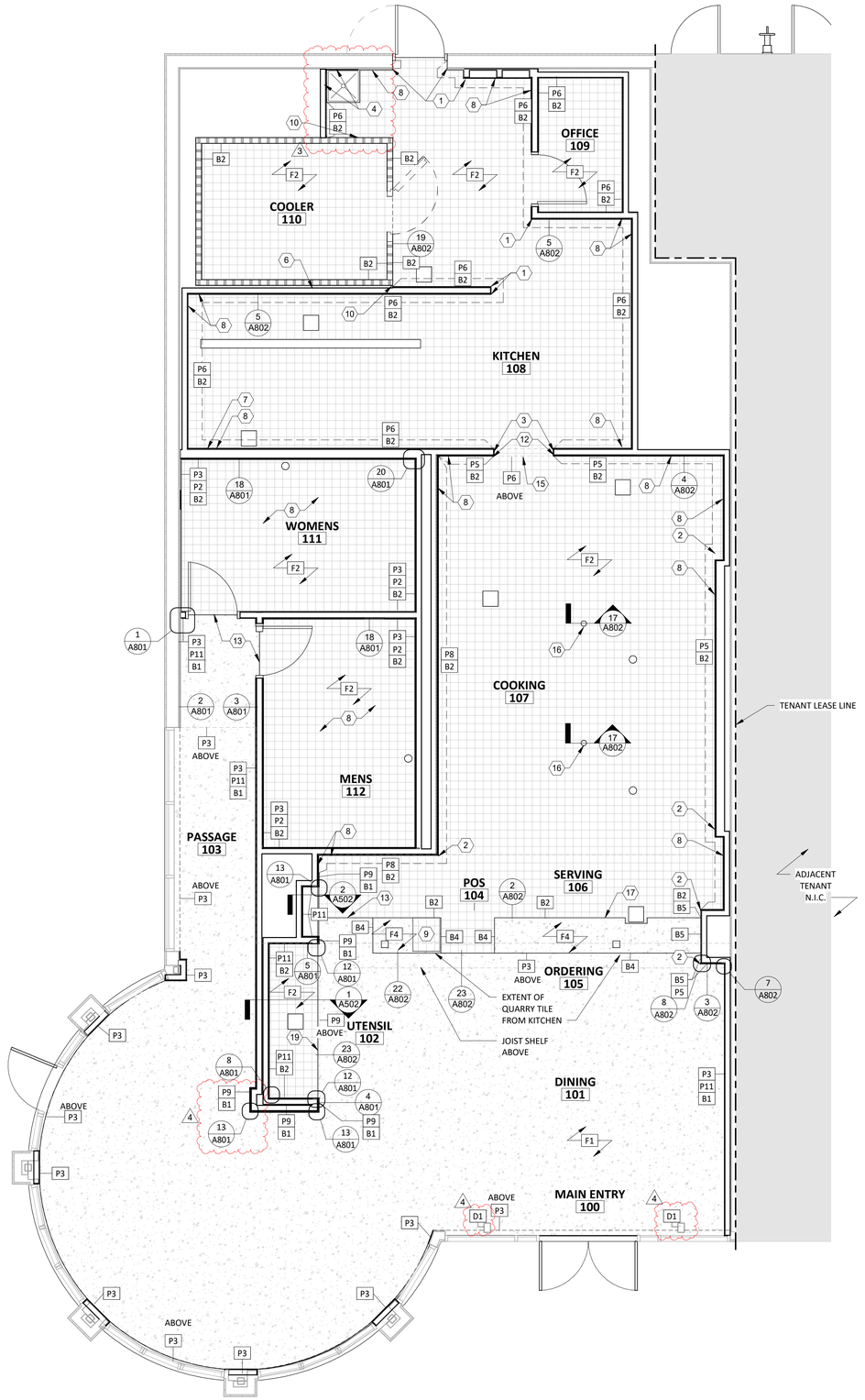
- WHERE FOOD IS PREPARED OR PACKAGED.
- CUSTOMER SELF-SERVE LOCATIONS WHERE OPEN FOOD OR BEVERAGE IS DISPENSED (E.G., SALAD BARS, BUFFETS, CONDIMENT STATIONS, BEVERAGE STATIONS, ETC.).
- WAIT STATIONS
- WHERE UTENSILS ARE WASHED OR STORED.
- JANITORIAL AREAS.
- RESTROOMS (CUSTOMER RESTROOMS DO NOT REQUIRE LIGHT-COLORED WALL OR CEILING FINISHES THOUGH IT IS RECOMMENDED).
- EMPLOYEE LOCKER ROOMS OR PERSONAL BELONGING STORAGE AREAS.
- WALK-IN REFRIGERATORS/FREEZERS.
- WHERE ANY FOOD IS NOT STORED IN THE ORIGINAL UNOPENED CONTAINERS.
- GARBAGE AND REFUSE STORAGE.

FINISH LEGEND

FLOOR FINISHES		WALL BASE FINISHES		WALL FINISHES		CEILING/DECK FINISHES		DOOR FINISHES	
LGD. #		LGD. #		LGD. #		LGD. #		LGD. #	
F1	POLISHED CONCRETE	B1	BLACK RUBBER, COVELESS	P1	PLYWOOD, VERTICAL GRAIN	C1	OPEN TO STRUCTURE, UNPAINTED	D1	PAINT "BLACK"
F2	QUARRY TILE	B2	QUARRY TILE, COVE	P2	FIBERGLASS REINFORCED PANELS TO 4'-0" AFF (SMOOTH FINISH)	C2	STONEWOOD	D2	PAINT "KNIGHT'S ARMOR"
F3	EXTERIOR CONCRETE	B3	BLACK RUBBER, COVE	P3	GYP BD; PAINT "THIN ICE", EGGSHELL, REFER TO A701 AND A710	C3	GYP BD; PAINT "MOONLIT SNOW"		
F4	SEALED CONCRETE	B4	QUARRY TILE, COVELESS	P4	NOT USED	C4	2X4 VINYL-FACED LAY-IN		
F5	RESINOUS FLOORING	B5	CERAMIC TILE	P5	CERAMIC TILE - WHITE				
				P6	FIBERGLASS REINFORCED PANELS (PEBBLED FINISH)				
				P7	NOT USED				
				P8	CERAMIC TILE - ALCHEMY ACCENT 2"x9"				
				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	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
101	DINING	F1	B1		C1	STR	SEE SHEET A701 AND SPECIFICATION SHEETS
102	UTENSIL	F1	B2		C2	±8'-1 3/4" / ±9'-1 3/4"	SEE SHEET A701 AND SPECIFICATION SHEETS
103	PASSAGE	F1	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	F1	B1/B4/B5		C1/C3	STR / ±9-0"	SEE SHEET A701 AND SPECIFICATION SHEETS
106	SERVING	F2	B2		C3	±9'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
107	COOKING	F2	B2		C3 /C4	±9'-0" / ±9'-4"	SEE SHEET A702 AND SPECIFICATION SHEETS
108	KITCHEN	F2	B2		C4	10'-0"	SEE SHEET A702 AND SPECIFICATION SHEETS
109	OFFICE	F2	B2		C4	9'-0"	EXTEND SHEATHING TO STRUCTURE
110	COOLER	F2	B2		STR	STR	CEILING HEIGHT & FINISHES PER MANUFACTURER
111	WOMENS	F5	B2		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
112	MENS	F5	B2		C3	8'-0"	SEE SHEET A710 AND SPECIFICATION SHEETS
113	PATIO	F3	-		-	-	-



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

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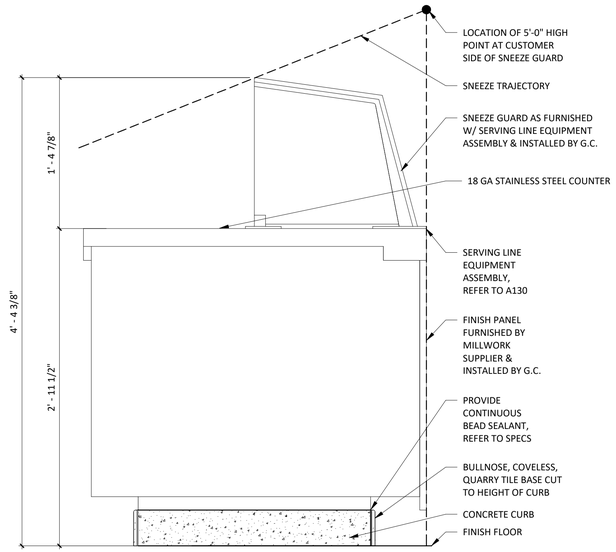
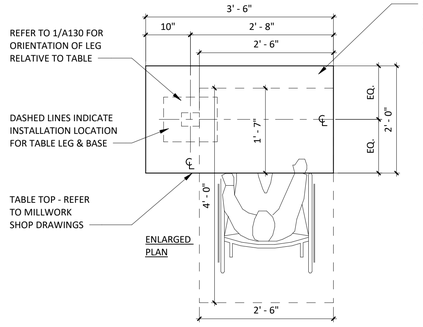
FINISH PLAN

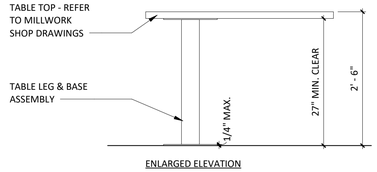
A120



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

1 1/2" = 1'-0"





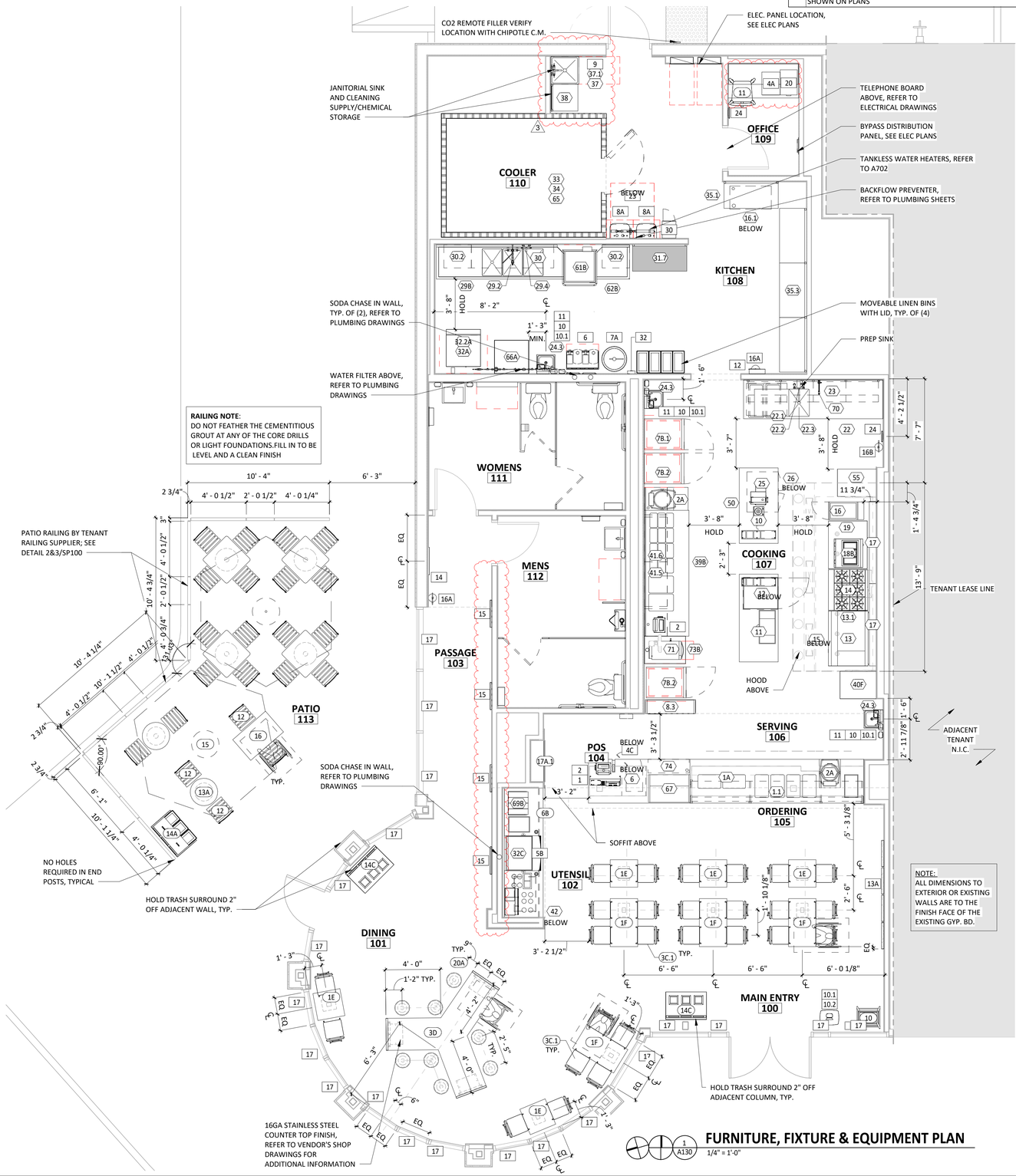
3 / A130 **DETAIL @ ACCESSIBLE TABLE**

3/4" = 1'-0"

HEALTH DEPARTMENT NOTES:
1. REFRIGERATORS CONTAINING POTENTIALLY HAZARDOUS FOOD (PHF) MUST HAVE READILY VISIBLE THERMOMETERS PLACED IN THE WARMEST PART OF THE UNIT. THESE FOODS INCLUDE MEATS, DAIRY PRODUCTS, EGGS, COOKED VEGETABLES, COOKED GRAINS, ETC.
2. WHILE NOT REQUIRED TO BE SHOWN ON THE PLANS, SUITABLE TEMPERATURE MEASURING DEVICES MUST BE PROVIDED FOR CHECKING THE DELIVERY TEMPERATURE OF PHF, COOKING TEMPERATURES, HOLDING TEMPERATURES, AND COOLING TEMPERATURES.
3. WHILE NOT REQUIRED TO BE SHOWN ON THE PLANS, A SUITABLE MEANS MUST BE PROVIDED FOR MEASURING SANITIZER LEVELS USED FOR UTENSIL WASHING, WIPING RAG SOLUTIONS, ETC.
4. ENTRYWAYS AND HARBORAGE FOR RODENTS AND INSECTS MUST BE ELIMINATED THROUGHOUT THE BUILDING AND EXTERIOR PREMISES. YOU MAY WISH TO CONTACT A LICENSED PEST CONTROL COMPANY, OR FOR FREE INFORMATION YOU MAY CALL THE CONTRA COSTA MOSQUITO AND VECTOR CONTROL DISTRICT AT (925) 685-9301.
5. IF THE FACILITY IS INTENDING TO COOL LARGE QUANTITIES OF PHF, IT IS CRITICAL THAT THIS PROCESS BE COMPLETED AS QUICKLY AS POSSIBLE (RECOMMEND 6 HOURS OR FASTER TO GET FROM 135 DEGREES F DOWN TO 41 DEGREES F OR COLDER). THIS MAY INCLUDE SUFFICIENT FOOD PREPARATION SINKS FOR ICE BATHS, COOLING REFRIGERATION UNITS, CHILL STICKS (AND SUFFICIENT FREEZER CAPACITY), ETC.

GENERAL NOTES

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



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	M4.0 - Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.1	Upright Beverage Cooler, Single Door, Hinge Left	Beverage Air	HR1HC-1S-LEFT HINGE	1	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Beverage Air	HR1HC-1S-RIGHT HINGE	2	KES	KES	●				
8.3	M4.5 Chip Shelf	Trimark	Custom	1	KES	KES					
10	Blender	Vitamix	748	1	T	T	●				GC To Store In Walk-In Cooler Until Final Installation
11	Carving Station - 77x34in - Horizontal Well - Left	Delfield	77x34in Carving Station - LT	1	KES	KES	●				
12	Undercounter Refrigerator	Hoshizaki	CRMR27-LP	1	KES	KES	●				
13	Grill 48in - Natural Gas - Divider Right	Woodstone	WS-PL-48-36-4-CT-Right	2	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	Vulcan	1VEG35M	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 - Right	Nationwide Fab; Marlo Mfg	CHP-RCS-42ES-34	1	KES	KES					
22	Prep Sink - Corner - Right	Trimark	S1-122x34-US-FF-R	1	KES	GC					
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	3	KES	GC				●	Provided with B-0199-06-F10, 1.0 GPM Aerator, Provide Plywood Blocking To Mount To Wall
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	3	KES	GC			●		
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-16-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWV	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco, SPG	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco, SPG	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	Metro	SWU85K4, SWS21K4, 2148NS	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-9F	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
32.2A	Ice Maker - Storage Bin	Hoshizaki	B500SF	1	KES	KES				●	
32.3	Icemaker- Filter	Cuno	Bev 190	2	KES	KES			●		
32.4	Ice Maker - Scale Inhibitor	Cuno	CFS440-HT	2	KES	KES			●		
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJ	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	Metro	SWU85K4, SWS21K4, SWD21K4, 2148NK4	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
35.3	Dry Storage Racks 23x144x85in	Metro	SWU85K4, SWS21K4, SWD21K4, 2148NK4	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	Metro	SW40K4, SWU85K4, SWS21K4, 2124NK4	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	●				
73B	24" TurboChef Table	Trimark	24X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

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Joseph L. Phillips, General Manager
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Issue Record:

03/04/2024	PERMIT SET

Revisions:

1	04/19/24	PERMIT COMMENTS
4	07/24/24	IFC

Project No.

24CMGX.0025.000

Contents:

EQUIPMENT SCHEDULE

A131

MISC. EQUIPMENT LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1	Point of Sale Display	1	TMS	GC					Installed at POS Station
2	Point-Of-Sale System	2	T	TCC					Coordinate Requirements With Tenant and Elec. Drawings
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		●	●	●	Refer to MEP Drawings
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	3	WA	GC					
10.1	Hand Sanitizer Dispenser	4	WA	GC					
10.2	Hand Sanitizer Stand	1	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	3	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
13A	M4.0 - Artwork Panel - Plaster 2Hx, Start Pattern At Column 1	1	TAS	GC					Provide Plywood Blocking to Mount to Wall
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
15	Artwork frame, coordinatw with CMG	4	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	3	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	20	WS	WS					See Sheet A130 For Location & Size (When Used)
19	Hat & Coat Strips (Not Shown)	1	WA	GC					Provide Plywood Blocking to Mount to Wall
20	2-Drawer File Cabinet, By Tenant	1	T	T					By Tenant
23	Backflow Preventer	1					●	●	See MEP Sheets for Details
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
30	Lockers - 1 Wide x 5 High, Kelmax EL/5/15 without Legs	1	KES	KES					
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33B	M4.0 - Pick-Up Sign - Single Faced - Surface Mounted - Left	1	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	5	TMS	GC					
1F	M4.0 - Table 24x42in, Rectangular Base (Accessible)	4	TMS	GC					See Detail On A130
3C.1	M4.0 - Dining Room Chair	26	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	8	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
6B	M4.0 - Beverage Counter - No Trash - 4" Splash - 113"	1	TMS	GC				●	Coordinate Floor Drain Installation with Utensil Counter Installation
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
12	Patio Chair - Bistro	22	KES	GC					Provided by EMU America, Contact: Carol Hughes (303-744-3200)
13A	24in Round Bistro Table	2	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
13B	30in Square Bistro Table	4	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
14A	3 Bin Trash/Recycling Surround - Exterior	1	TMS	GC					Bins Provided by Tundra in Smallwares Package
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	2	TMS	GC					Bins Provided by Tundra in Smallwares Package
15	Patio Umbrella	2	KES	GC					
16	Accessible Patio Table	1	KES	GC					Provided By EMU America, Contact: Carol Hughes (303-744-3200)
17A.1	MOPUS Shelving - 32"	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
20A	M4.0 - Custom Angle Window Table	1	TMS	GC					

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
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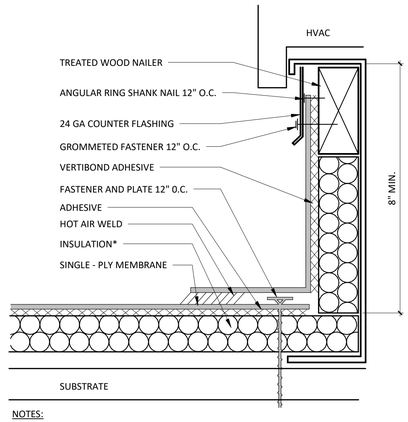
EQUIP. & FURNITURE SCHEDULE

A132



NOTES:

1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURERS SPECIFICATIONS.
2. DO NOT SCALE DRAWINGS.
3. USE PREFABRICATED OUTSIDE CORNERS.
4. INSULATION MUST BE SECURELY FASTENED.
5. *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

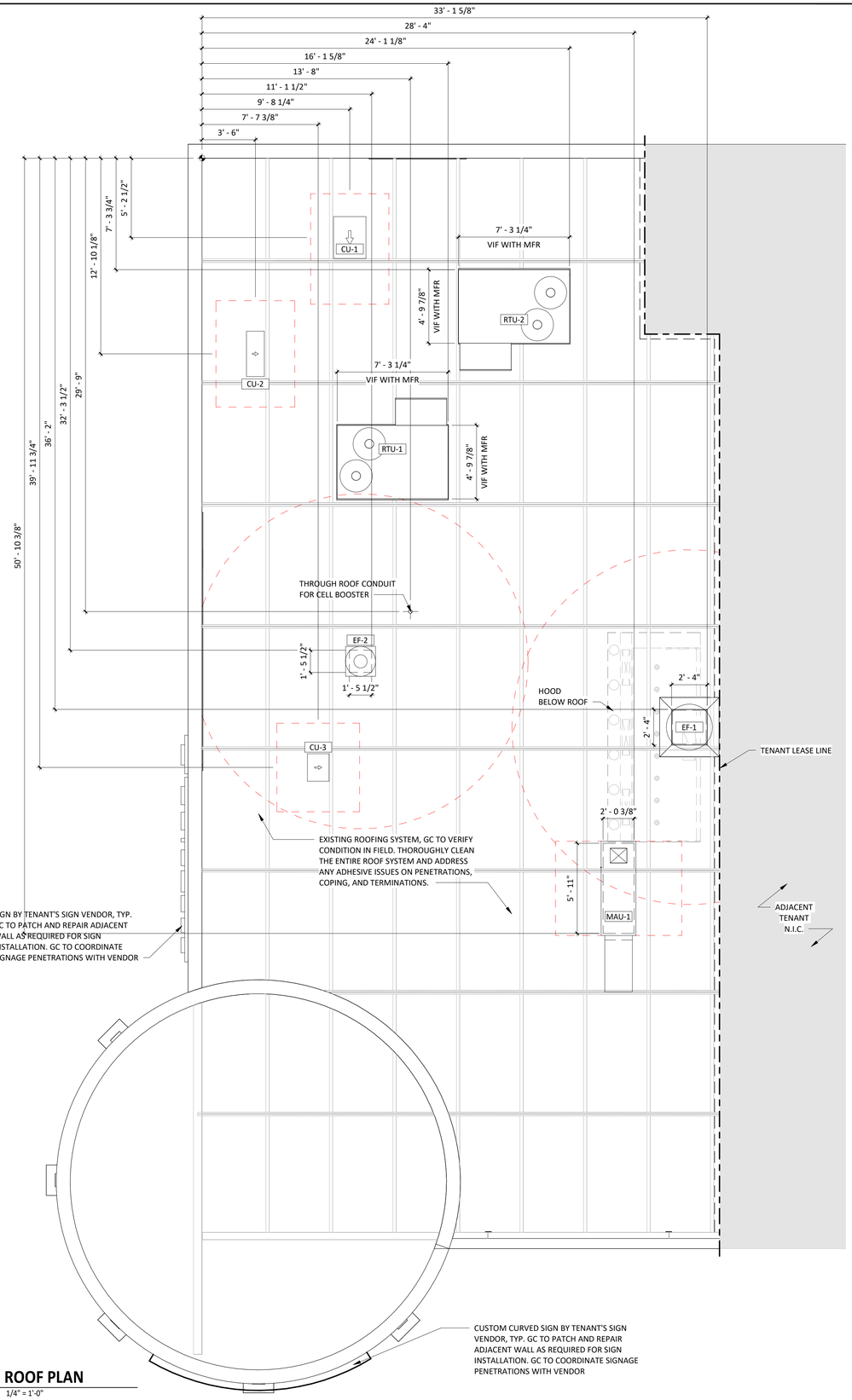
1/2" = 1'-0"

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.

2 / A140 BOOT DETAIL

1/2" = 1'-0"



1 / A140 ROOF PLAN

1/4" = 1'-0"

HVAC EQUIPMENT

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

DESCRIPTION	SUPPLIED BY	INSTALLED BY	4 REMARKS
EXHAUST FANS & CURBS	HS	GC	STRUCTURAL ROOF SUPPORT BY LANDLORD UNDER SEPARATE PERMIT
MAKE UP AIR UNIT & CURBS	HS	GC	STRUCTURAL ROOF SUPPORT BY LANDLORD UNDER SEPARATE PERMIT
ROOF TOP UNITS & CURBS	HES	GC	STRUCTURAL ROOF SUPPORT BY LANDLORD UNDER SEPARATE PERMIT
TEST & BALANCE SYSTEM	TAB	-	FURNISH HVAC TEST & BALANCE PER TENANT'S NATIONAL ACCOUNT PROGRAM.

GENERAL NOTES

1.	SEE LANDLORD STRUCTURAL DRAWINGS FOR EXISTING 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.
10.	ALL UNUSED ROOTOP EQUIPMENT TO BE REMOVED.PATCH ROOF AS NECESSARY

Consultant:

INTERIOR ARCHITECTS

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Contents:

ARCHITECTURAL ROOF PLAN

A140

GENERAL NOTES

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

SECURITY SYSTEM *REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITIES ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	●				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	●				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	●				
CLOSED CIRCUIT T.V. CAMERA - OUTDOOR	2	SSS	SSS	●				INSTALL AT 9'-6" U.N.O.
CLOSED CIRCUIT T.V. CAMERA - INDOOR	5	SSS	SSS	●				

CONDUIT GUIDELINES

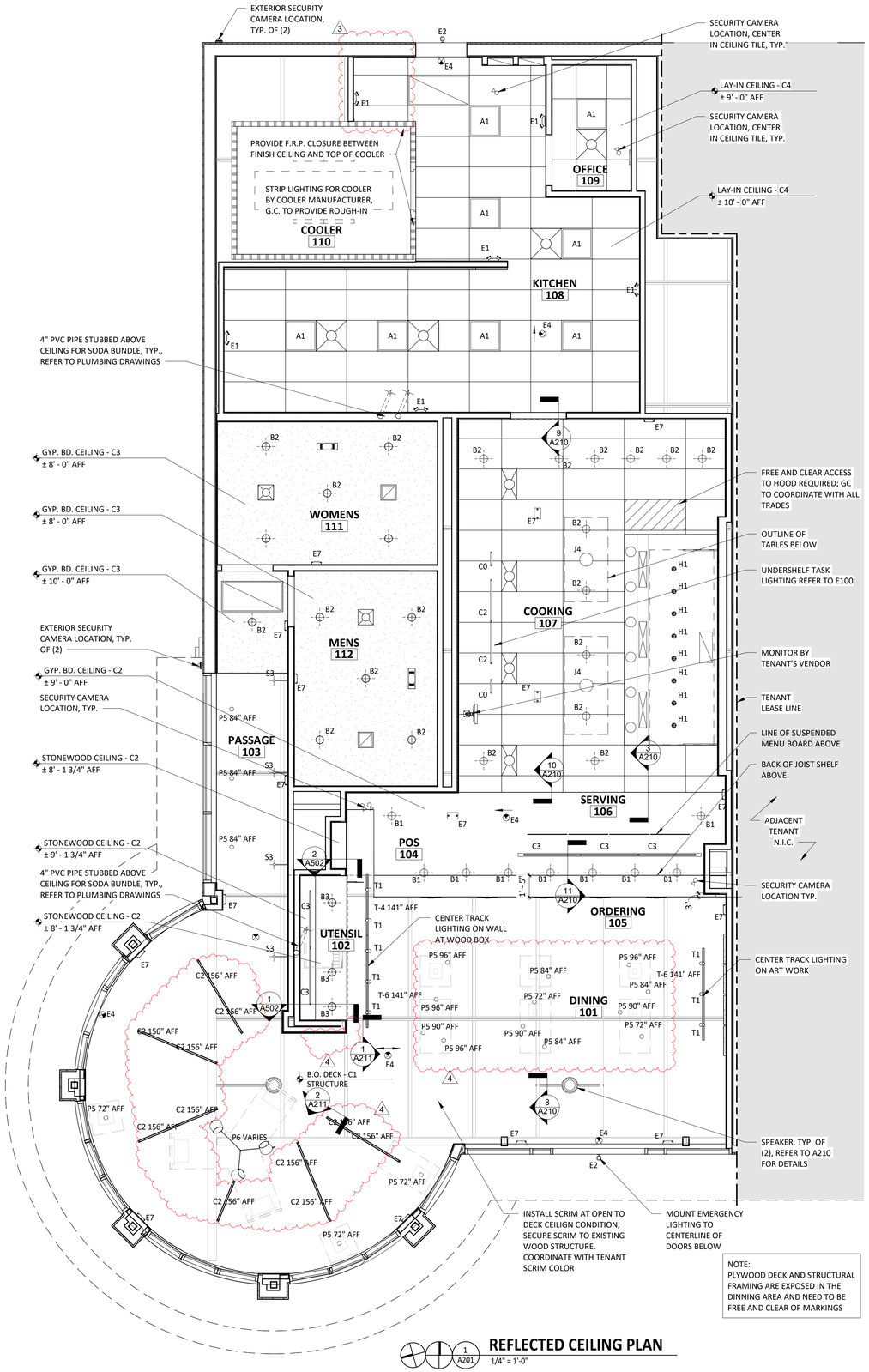
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

ITEM #	QTY	DESCRIPTION	COLOR/FINISH	MOUNT	REMARKS
SP1	2	DINING ROOM SPEAKER	BLACK	SUSPENDED	REFER TO A201 & E110 FOR DETAILS

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
A1	8	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	9	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	23	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	3	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	13	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	5	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
E1	6	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	2	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	7	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	16	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P5	18	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	1	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	8	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-4	1	SUSPENDED	M4.0 - TRACK 4'	SEE SHEET E100
T-6	2	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
S-3	4	WALL MOUNTED	ACCENT LIGHT BLACK	SEE SHEET E100



REFLECTED CEILING PLAN

1/4" = 1'-0"

Consultant:

INTERIOR ARCHITECTS

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Contents:

REFLECTED CEILING PLAN

A201

GENERAL NOTES

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2.	ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
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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.
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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.
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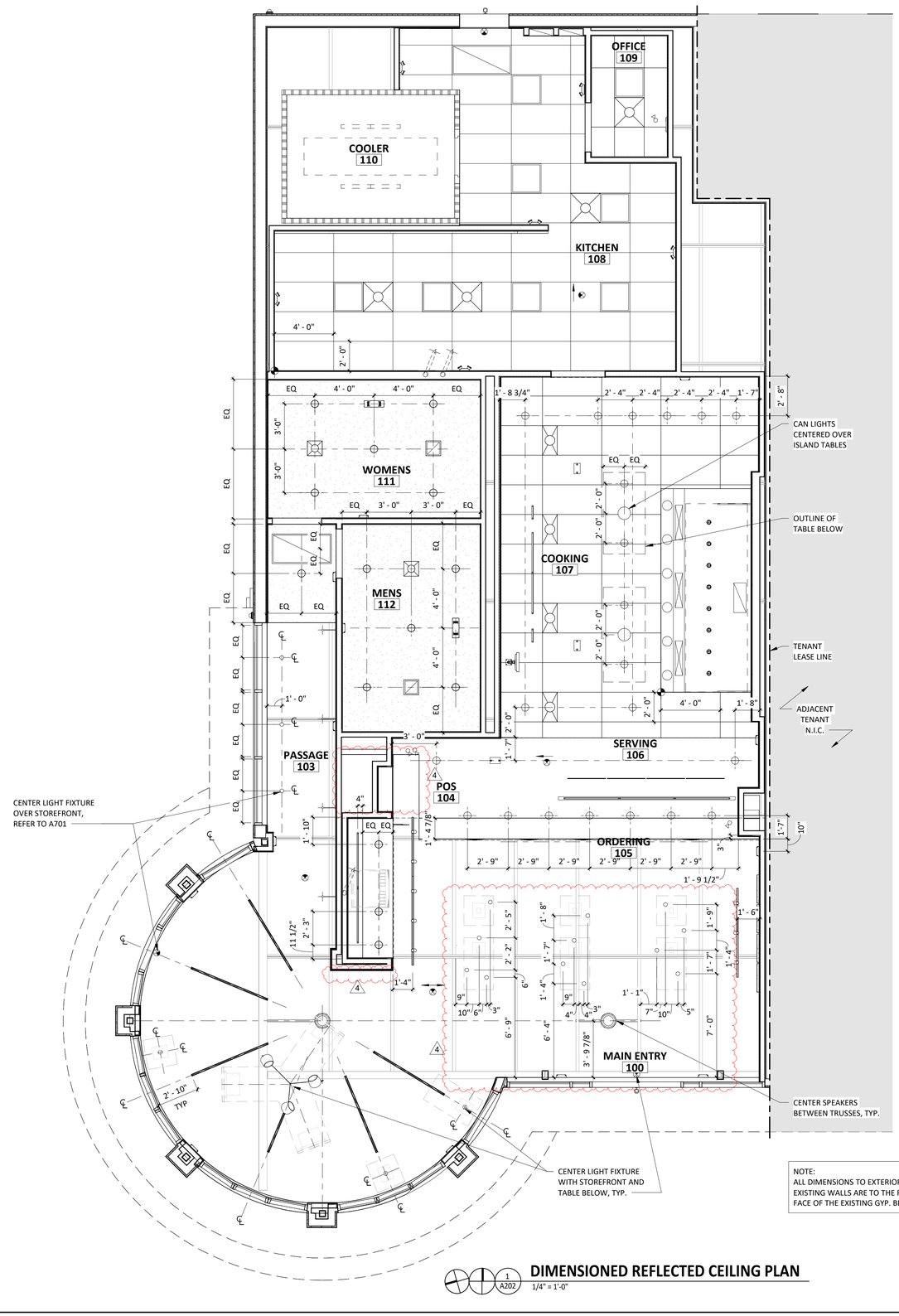
26.	REFER TO A120 FOR FINISH SCHEDULE



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

DIMENSIONED REFLECTED CEILING PLAN

1/4" = 1'-0"

Consultant:

INTERIOR ARCHITECTS

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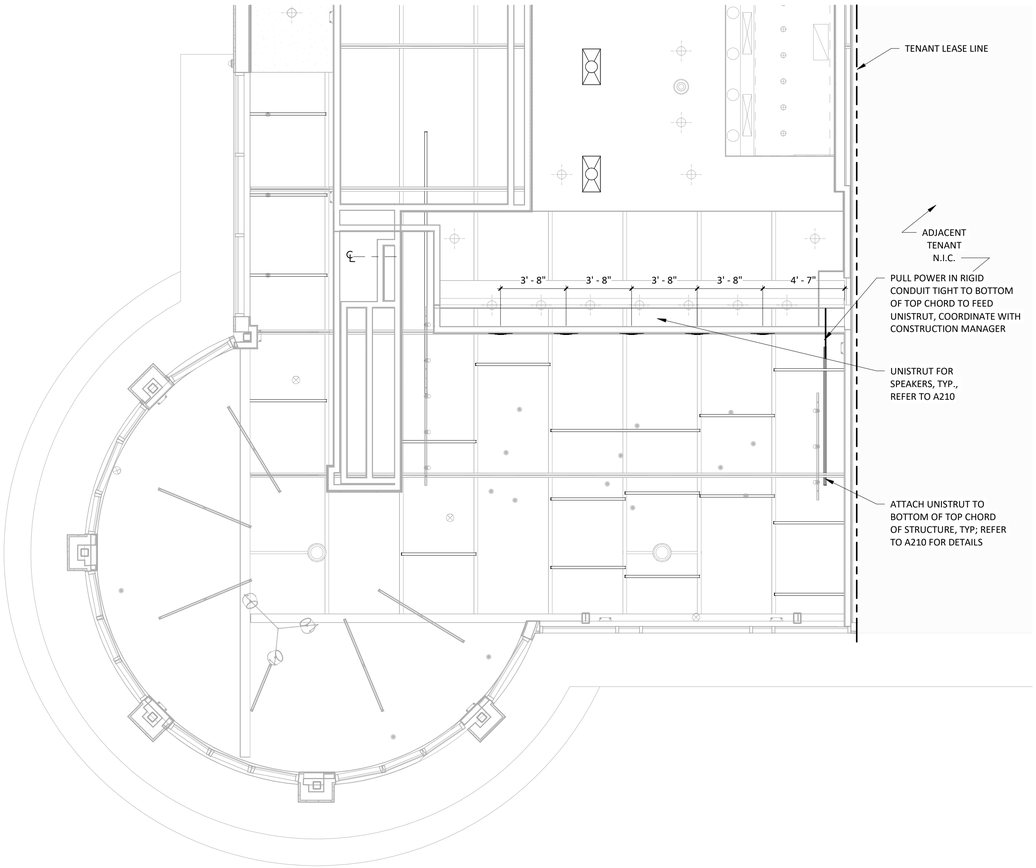
Contents:
REFLECTED CEILING PLAN-DIMENSIONED

A202

REFER TO A201 FOR GENERAL NOTES



1 A203 **UNISTRUT AND DUCTWORK LAYOUT**
1/4" = 1'-0"

Consultant:

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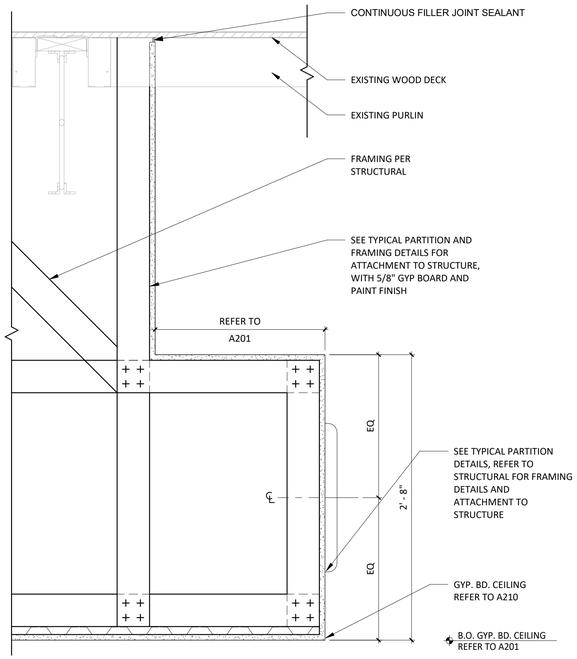
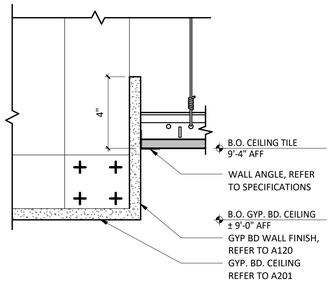
Project No.
24CMGX.0025.000

Contents:
REFLECTED CEILING & UNISTRUT PLAN

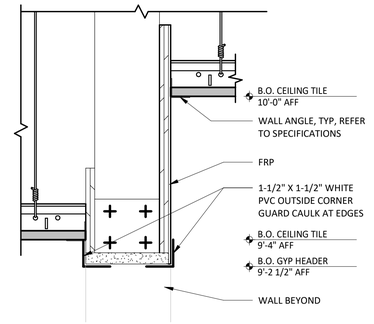
A203



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



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



9 A210 **KITCHEN CEILING TRANSITION**
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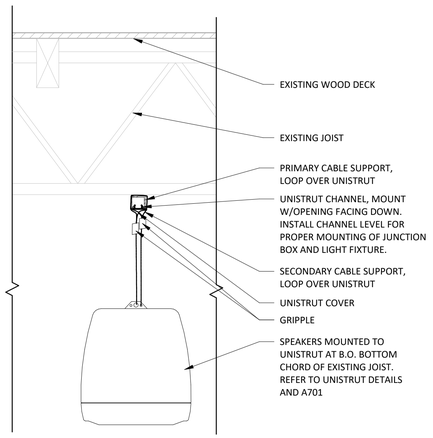
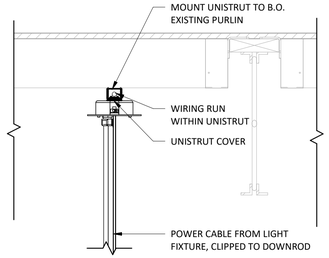
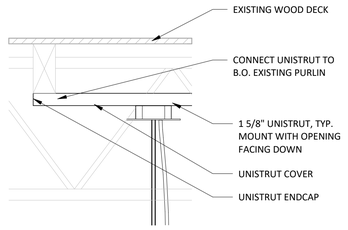


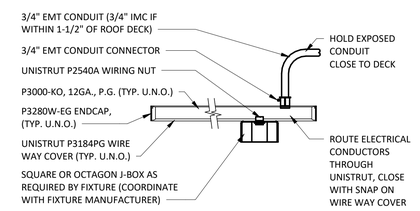
8 A210 **SPEAKER INSTALLATION**
1 1/2" = 1'-0"



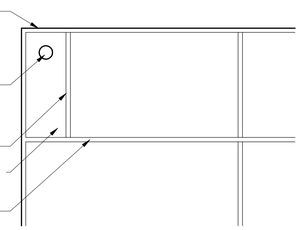
7 A210 **UNISTRUT DETAIL**
1 1/2" = 1'-0"



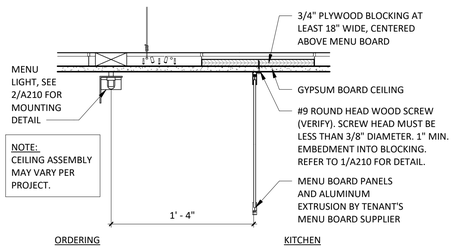
6 A210 **TYP. UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



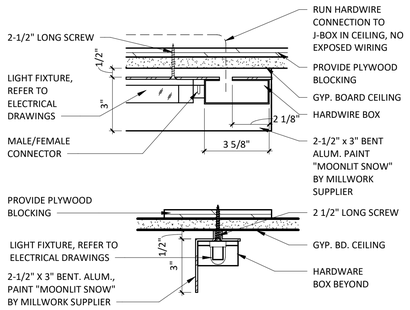
5 A210 **UNISTRUT MOUNTING DETAIL**
1 1/2" = 1'-0"



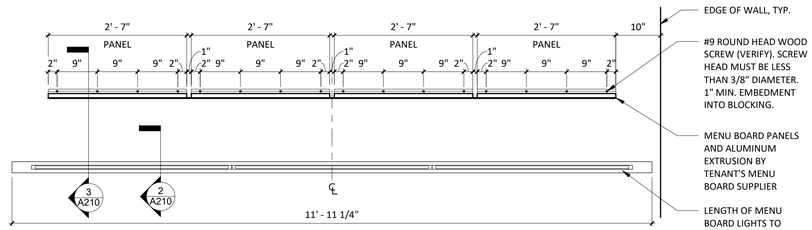
4 A210 **LAY-IN CEILING PENETRATION - PLAN DETAIL**
3/4" = 1'-0"



3 A210 **MENU BOARD DETAIL**
1 1/2" = 1'-0"



2 A210 **MENU BOARD / ACCENT LIGHT DETAILS**
3" = 1'-0"



1 A210 **MENU - SCREW PATTERN PLAN**
3/4" = 1'-0"

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
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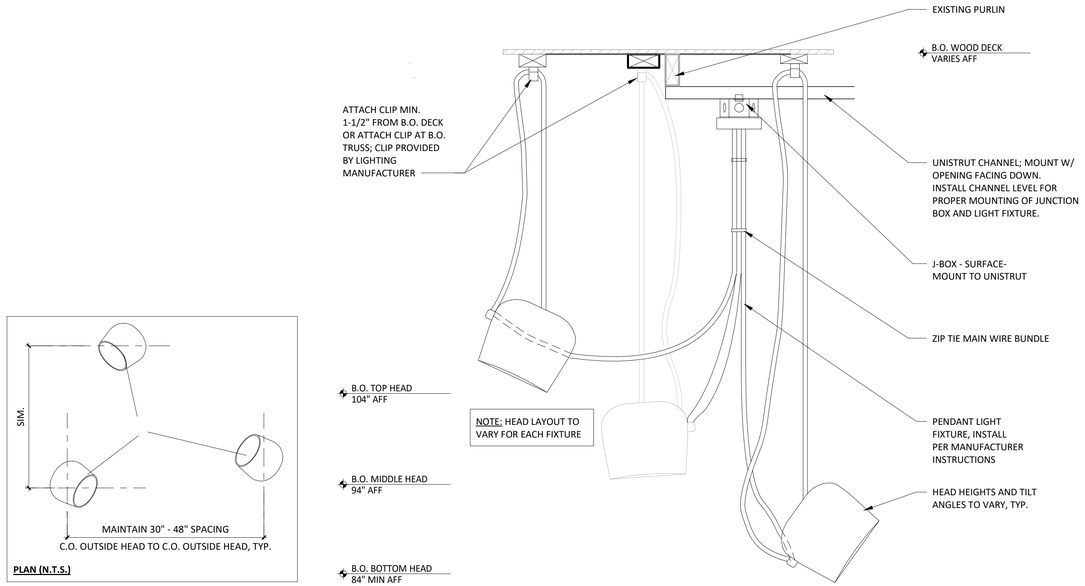
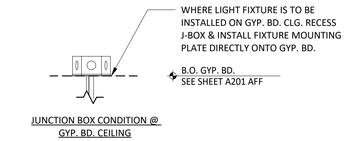
Contents:
CEILING DETAILS

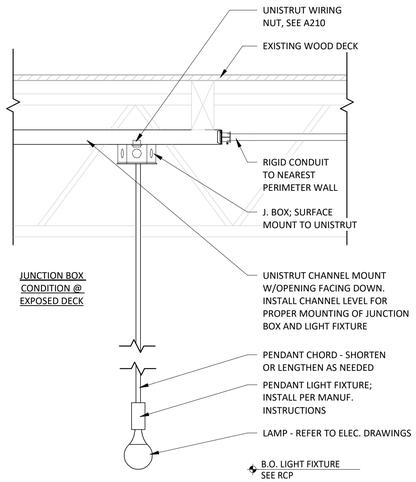
A210



4 A211 **SUSPENDED LIGHT FIXTURE**

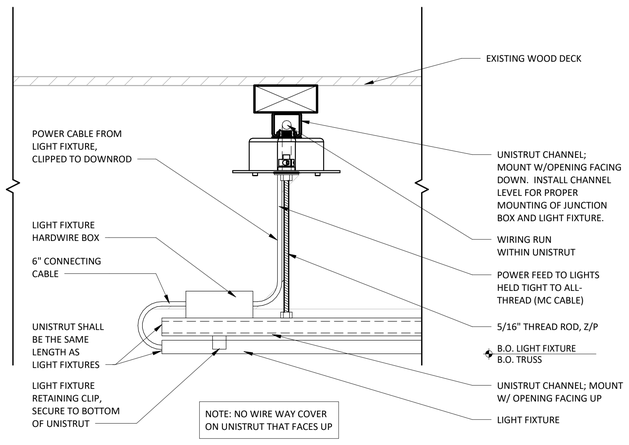
1 1/2" = 1'-0"





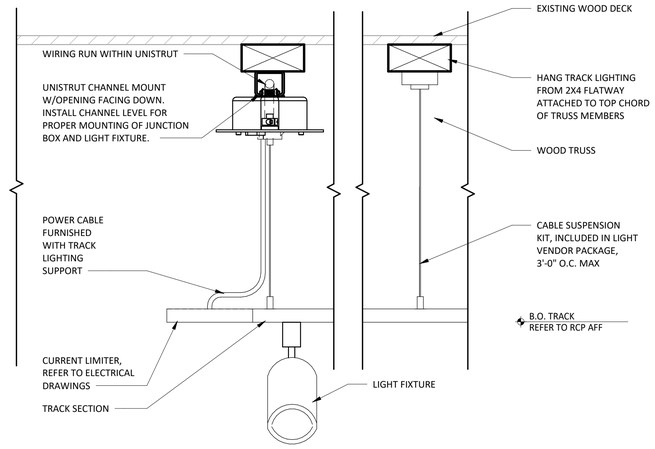
3 A211 **PENDANT LIGHT FIXTURE**

1 1/2" = 1'-0"



2 A211 **SUSPENDED STRIP LIGHT CONNECTION DETAIL**

3" = 1'-0"



1 A211 **SUSPENDED TRACK LIGHT CONNECTION DETAIL**

3" = 1'-0"

Consultant:

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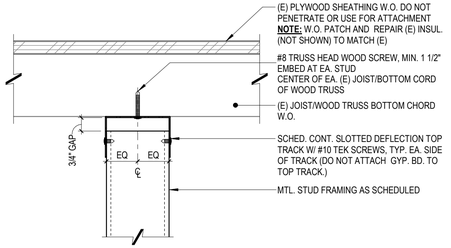
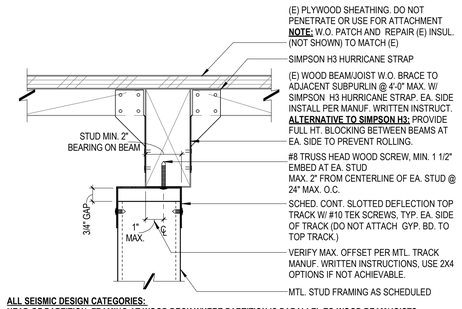
LIGHTING DETAILS

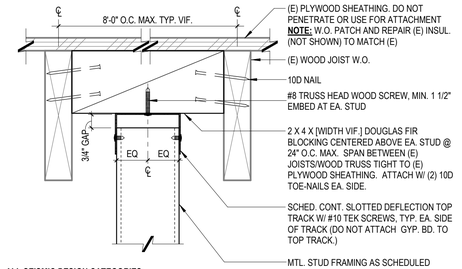
A211



ALL SEISMIC DESIGN CATEGORIES: HEAD OF PARTITION FRAMING AT WOOD DECK WHERE PARTITION IS PERPENDICULAR TO WOOD JOISTS OR WOOD TRUSS W.O.



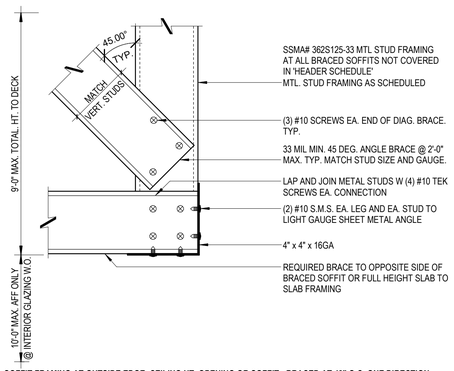
ALL SEISMIC DESIGN CATEGORIES:
HEAD OF PARTITION FRAMING AT WOOD DECK WHERE PARTITION IS PARALLEL TO WOOD BEAM/JOISTS



ALL SEISMIC DESIGN CATEGORIES:
HEAD OF PARTITION FRAMING AT WOOD DECK WHERE PARTITION IS PARALLEL TO WOOD JOISTS

FULL HEIGHT MTL. STUD PARTITION HEAD ATTACHMENT AT WOOD STRUCTURE

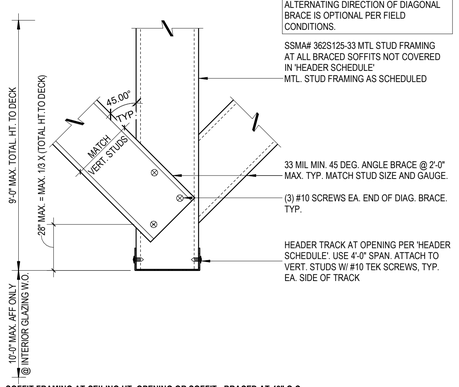
8 A220 — 3" = 1'-0"



SOFFIT FRAMING AT OUTSIDE EDGE CEILING HT. OPENING OR SOFFIT - BRACED AT 48" O.C. ONE DIRECTION

DECK SUPPORTED CEILING & SOFFIT/OPENING FRAMING AT OUTSIDE EDGE

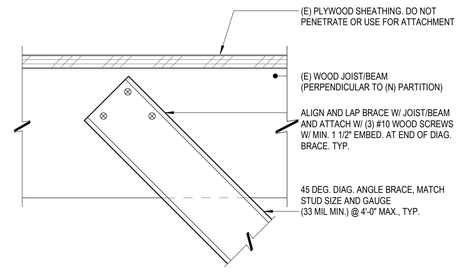
7 A220 — 3" = 1'-0"



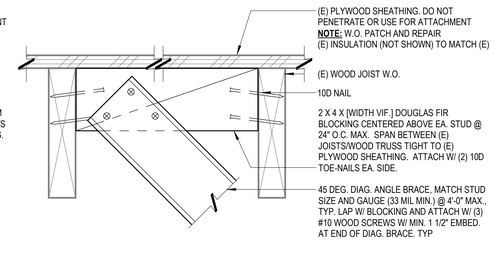
SOFFIT FRAMING AT CEILING HT. OPENING OR SOFFIT - BRACED AT 48" O.C.

DECK SUPPORTED CEILING & SOFFIT/OPENING FRAMING

6 A220 — 3" = 1'-0"



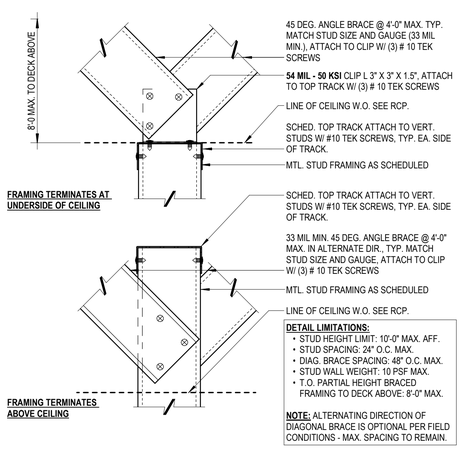
ALL SEISMIC DESIGN CATEGORIES:
BRACING ATTACHMENT AT WOOD STRUCTURE WHERE PARTITION IS PERPENDICULAR TO WD. JOISTS/BEAM



ALL SEISMIC DESIGN CATEGORIES: BRACING ATTACHMENT AT WOOD STRUCTURE WHERE PARTITION IS PARALLEL TO WOOD JOIST/BEAM

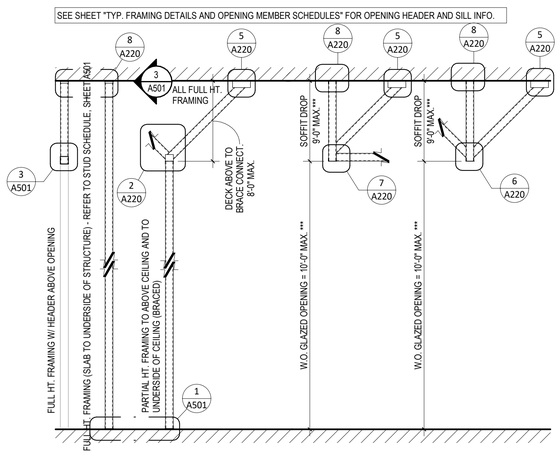
SEISMIC MTL. STUD BRACING ATTACHMENT AT WOOD STRUCTURE

5 A220 — 3" = 1'-0"



PARTIAL HEIGHT PARTITION HEAD BRACING ATTACHMENT

2 A220 — 3" = 1'-0"



TYPICAL INTERIOR PARTITION FRAMING ATTACHMENT DIAGRAMS - WOOD STRUCTURE

1 A220 — 3/8" = 1'-0"

QUALIFICATIONS & ASSUMPTIONS

REQUIREMENTS FOR (E) WOOD STRUCTURE:
VERIFY (E) STRUCTURE DOES NOT EXCEED 3/4" MAX. DEFLECTION

REQUIREMENTS FOR (N) PARTITION AND SOFFIT FRAMING:
- SEE PARTITION SCHEDULE FOR MTL. FRAMING TYPE.
- STUD SPACING: REFER TO STUD SCHEDULE, SHEET A501.
- STUD HEIGHT LIMITATION: REFER TO STUD SCHEDULE, SHEET A501.
- STUD WALL WEIGHT: 10 PSF MAX.
- LATERAL LOAD: 5 PSF MAX.
- T.O. PARTIAL HEIGHT AND BRACED FRAMING TO DECK ABOVE: 8'-0" MAX.

REQUIREMENTS FOR (N) SOFFIT FRAMING:
- SSMA# 362S125-33 MTL STUD FRAMING AT ALL BRACED SOFFITS NOT COVERED IN 'HEADER SCHEDULE'
- ***SOFFIT DROP: 7'-0" MAX. FROM STRUCTURE ABOVE @ W.O. GLAZING BELOW
- HEIGHT OF GLAZING BELOW SOFFITS: 10'-0" MAX. AFF.
- STUD & CONNECTION SPACING: 16" O.C. MAX.
- BRACE SPACING: 48" O.C. MAX.
- STUD WALL WEIGHT: 10 PSF MAX.

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

- **PROVIDE STRUCTURAL ENGINEERING DRAWINGS WHERE METAL FRAMING SOFFITS ARE SUPPORTED FROM WOOD STRUCTURE. SEE SEOR DRAWINGS FOR LOAD CALCULATIONS AND ADDITIONAL DETAILS FOR STRENGHTHENING OF STRUCTURE.**

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

Consultant:

INTERIOR ARCHITECTS

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SAN FRANCISCO, CA 94111
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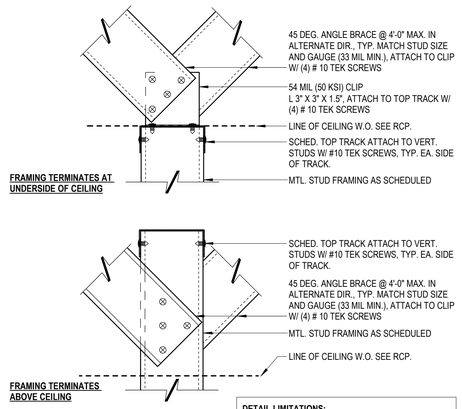
Contents:
TYP. MTL. STUD FRAMING DETAILS - WOOD STRUCT.

A220

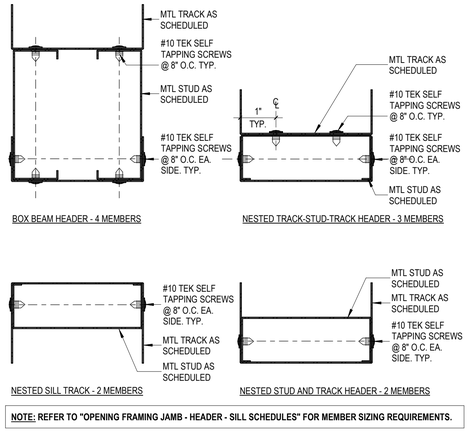


DETAIL LIMITATIONS:

- STUD HEIGHT LIMIT: REFER TO STUD SCHEDULE, SHEET A501
- STUD SPACING: 16" O.C. MAX.
- BRACE SPACING: 48" O.C. MAX.
- STUD WALL WEIGHT: 10 PSF MAX.

10 A221 PARTIAL HEIGHT PARTITION BRACING

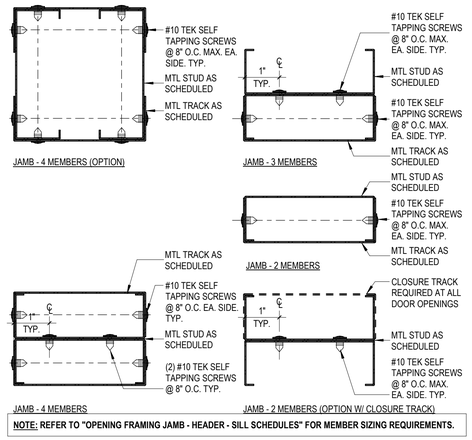
3" = 1'-0"



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

9 A221 FASTENING OPTIONS FOR SILLS, AND HEADERS WITH 4, 3, OR 2 MEMBERS

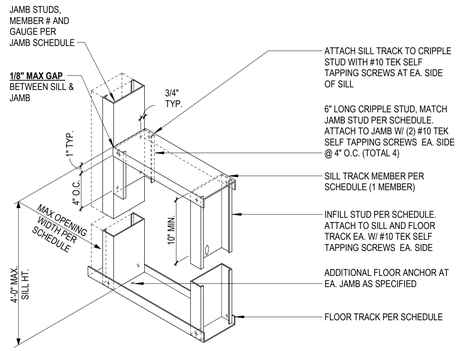
6" = 1'-0"



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

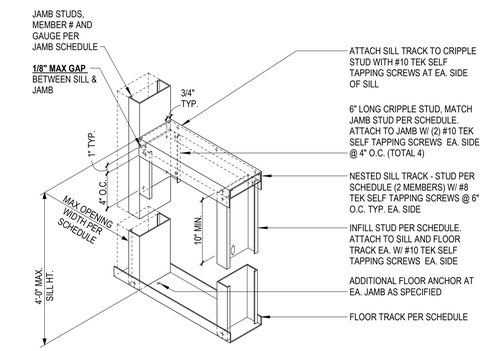
8 A221 FASTENING OPTIONS FOR JAMBS WITH 4, 3, OR 2 MEMBERS

6" = 1'-0"



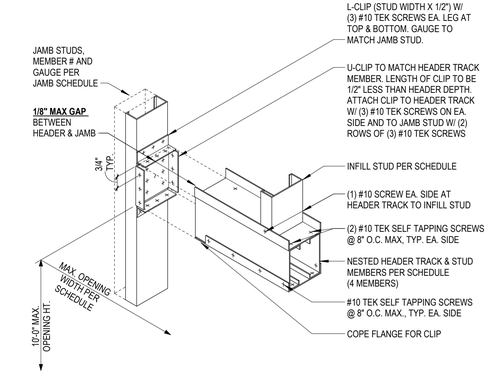
7 A221 (1) MEMBER - SILL TRACK TO JAMB CONNECTION AT OPENING

1" = 1'-0"



6 A221 (2) MEMBER - SILL TRACK TO JAMB CONNECTION AT OPENING

1" = 1'-0"



5 A221 (4) MEMBER - BOX BEAM HEADER TO JAMB CONNECTION AT OPENING

1" = 1'-0"

JAMB SCHEDULE - INTERIOR WALLS - 3 5/8" AND 6" STUDS								
MAX. OPENING WIDTH	STUD SIZE	12' MAX.WALL HEIGHT		17' MAX.WALL HEIGHT		20' MAX.WALL HEIGHT	
		STUD/TRACK	NO. OF MEMBERS	STUD/TRACK	NO. OF MEMBERS	STUD/TRACK	NO. OF MEMBERS
4'-0"	3 5/8"	(1)362S162-43 (33KSI)	1	(1)362S162-43 (33KSI) (1)362T200-43 (33KSI)	2	(1)362S250-54 (50KSI) (1)362T250-54 (50KSI)	2
8'-0"	3 5/8"	(1)362S162-33 (33KSI) (1)362T150-33 (33KSI)	2	(2)362S200-43 (33KSI) (1)362T250-54 (50KSI)	3	(2)362S250-54 (50KSI) (2)362T250-54 (50KSI)	4
12'-0"	3 5/8"	(1)362S162-33 (33KSI) (1)362T125-33 (33KSI)	2	(2)362S250-54 (33KSI) (2)362T150-43 (33KSI)	4	(2)362S300-68 (50KSI) (2)362T250-68 (50KSI)	4
15'-0"	3 5/8"	(2)362S162-33 (33KSI) (1)362T200-33 (33KSI)	3	(2)362S300-54 (33KSI) (2)362T250-54 (50KSI)	4	(2)362S300-68 (50KSI) (2)362T250-97 (50KSI)	4
4'-0"	6"	(1)600S162-43 (33KSI)	1	(1)600S162-43 (33KSI)	1	(1)600S162-43 (33KSI)	1
8'-0"	6"	(1)600S162-33(33KSI)	1	(1)600S162-33 (33KSI) (1)600T125-30 (33KSI)	2	(1)600S200-43 (33KSI) (1)600T150-33 (33KSI)	2
12'-0"	6"	(1)600S162-33 (33KSI)	1	(1)600S200-33 (33KSI) (1)600T200-33 (33KSI)	2	(2)600S250-43 (33KSI) (1)600T125-33 (33KSI)	3
18'-6"	6"	(1)600S162-43 (33KSI)	1	(1)600S250-43 (33KSI) (1)600T250-43 (33KSI)	2	(2)600S250-43 (33KSI) (2)600T150-33 (33KSI)	4
21'-6"	6"	(1)600S200-43 (33KSI)	1	(2)600S200-33 (33KSI) (1)600T200-43 (33KSI)	3	(1)600S300-68 (50KSI) (1)600T250-97 (50KSI)	2

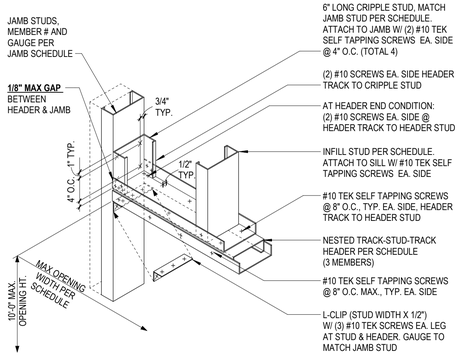
HEADER SCHEDULE - INTERIOR WALLS - 3 5/8" AND 6" STUDS								
MAX. OPENING WIDTH	STUD SIZE	12' MAX.WALL HEIGHT		17' MAX.WALL HEIGHT		20' MAX.WALL HEIGHT	
		STUD/TRACK	NO. OF MEMBERS	STUD/TRACK	NO. OF MEMBERS	STUD/TRACK	NO. OF MEMBERS
4'-0"	3 5/8"	(1)362T150-43 (50KSI)	1	(1)362S162-43 (33KSI) (1)362T200-33 (33KSI)	2	(1)362S200-33 (33KSI) (1)362T250-43 (33KSI)	2
8'-0"	3 5/8"	(1)362S200-33 (33KSI) (1)362T250-33 (33KSI)	2	(2)362S162-43 (33KSI) (2)362T125-43 (33KSI)	4	(2)362S162-43 (33KSI) (2)362T150-43 (33KSI)	4
12'-0"	3 5/8"	(2)362S200-43 (33KSI) (2)362T250-43 (33KSI)	4	(2)600S162-43 (33KSI) (2)362T250-54 (50KSI)	4	(2)600S162-43 (50KSI) (2)362T250-68 (50KSI)	4
15'-0"	3 5/8"	(2)362S250-87 (33KSI) (2)362T250-97 (50KSI)	4	(2)600S162-97 (33KSI) (2)362T250-97 (50KSI)	4	(2)1000S162-68 (50KSI) (2)362T250-97 (50KSI)	4
4'-0"	6"	600T200-43 (33KSI)	1	(1)600S162-33 (33KSI) (1)600T200-43 (33KSI)	2	(1)600S162-43 (33KSI) (1)600T200-43 (33KSI)	2
8'-0"	6"	(1)600S162-33 (33KSI) (1)600T250-43 (33KSI)	2	(2)600S162-33 (33KSI) (2)600T125-30 (33KSI)	4	(2)600S162-33 (33KSI) (2)600T125-33 (33KSI)	4
12'-0"	6"	(2)600S162-33 (33KSI) (2)600T125-30 (33KSI)	4	(2)600S162-33 (33KSI) (2)600T150-33 (33KSI)	4	(2)600S200-43 (33KSI) (2)600T200-33 (33KSI)	4
18'-6"	6"	(2)600S200-54 (33KSI) (2)600T200-54 (50KSI)	4	(2)1000S200-43 (33KSI) (2)600T250-68 (50KSI)	4	(2)1200S200-54 (33KSI) (2)600T250-68 (50KSI)	4
21'-6"	6"	(2)600S350-54 (33KSI) (2)600T250-68 (50KSI)	4	(2)1000S300-54 (33KSI) (2)600T250-97 (50KSI)	4	(2)1400S200-68 (50KSI) (2)600T250-97 (50KSI)	2

SILL SCHEDULE - INTERIOR WALLS - 3 5/8" AND 6" STUDS							
MAX. OPENING WIDTH	STUD SIZE	STUD/TRACK	NO. OF MEMBERS	MAX. OPENING WIDTH	STUD SIZE	STUD/TRACK	NO. OF MEMBERS
4'-0"	3 5/8"	(1)362T150-33 (33KSI)	1	4'-0"	6"	(1)600T125-30 (33KSI)	1
8'-0"	3 5/8"	(1)362T150-33 (33KSI)	1	8'-0"	6"	(1)600T125-30 (33KSI)	1
12'-0"	3 5/8"	(1)362S162-43 (33KSI) (1)362T150-43 (33KSI)	2	12'-0"	6"	(1)600T125-33 (33KSI)	1
15'-0"	3 5/8"	(1)362S200-54 (33KSI) (1)362T250-54 (33KSI)	2	18'-6"	6"	(1)600S200-43 (33KSI) (1)600T250-43 (33KSI)	2
				21'-6"	6"	(1)600S300-54 (33KSI) (1)600T250-43 (33KSI)	2

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

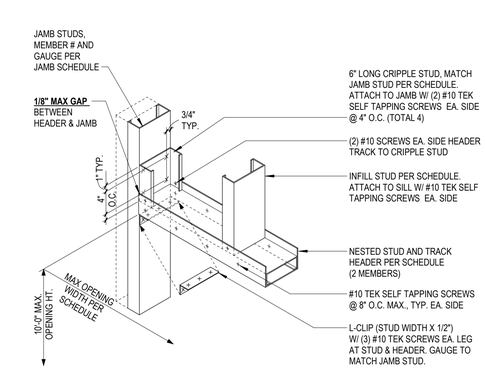
1 A221 OPENING FRAMING JAMB - HEADER - SILL SCHEDULES

3" = 1'-0"



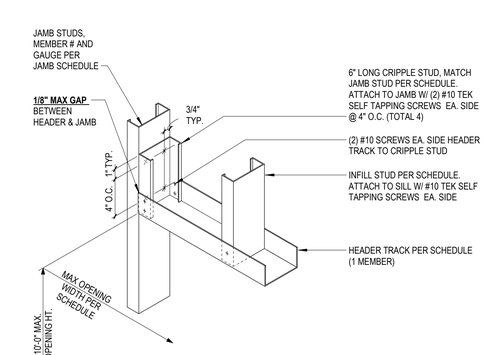
4 A221 (3) MEMBER TRACK-STUD-TRACK HEADER TO JAMB CONNECTION AT OPENING

1" = 1'-0"



3 A221 (2) MEMBER STUD & TRACK HEADER TO JAMB CONNECTION AT OPENING

1" = 1'-0"



2 A221 (1) MEMBER - HEADER TRACK TO JAMB CONNECTION AT OPENING

1" = 1'-0"

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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RICHMOND, CA 94806

Issue Record:

Revisions:

1	04/19/24	PERMIT COMMENTS
4	07/24/24	IFC

Project No.

24CMGX.0025.000

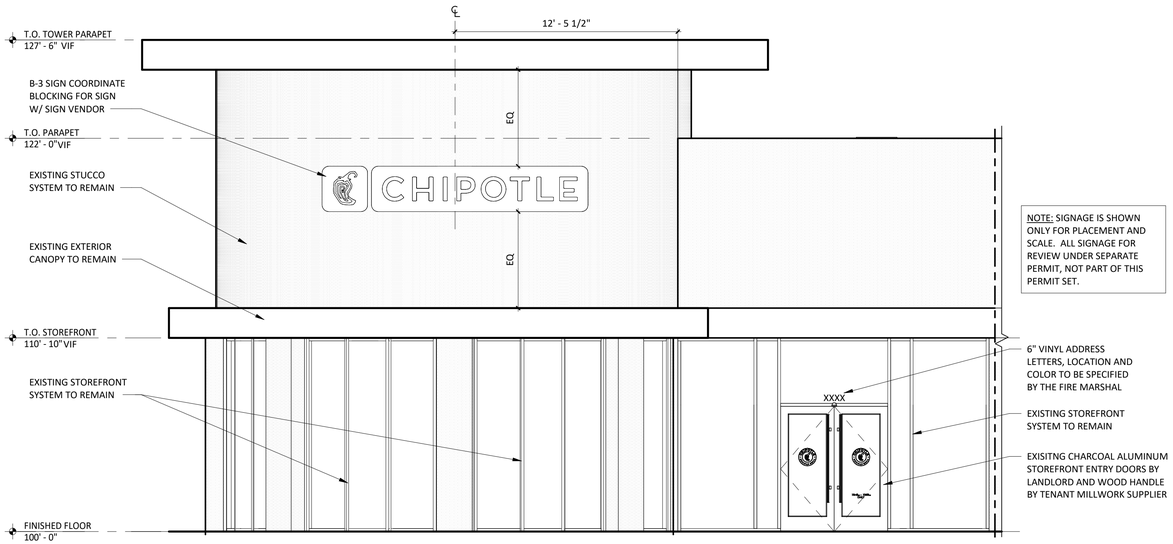
Contents:

TYP. FRAMING DETAILS AND OPENING SCHEDULES

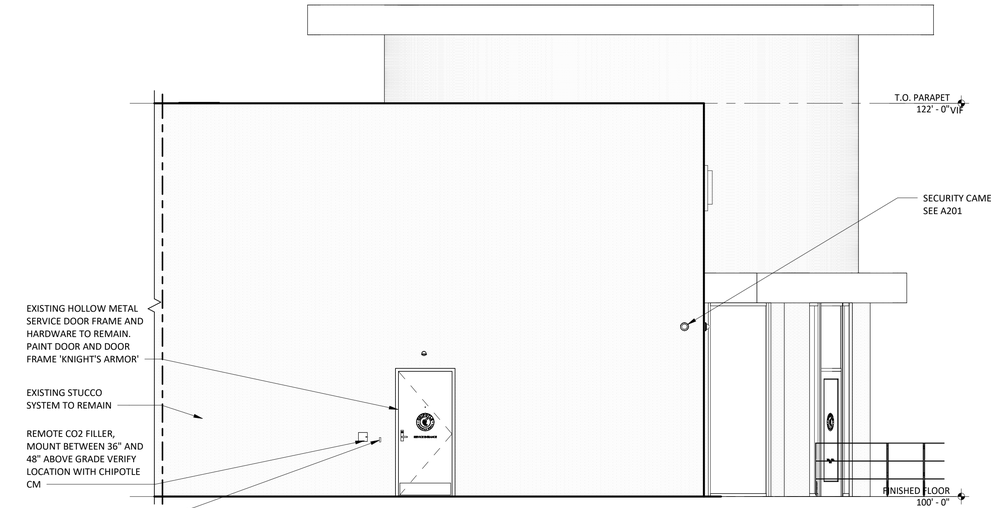
A221

GENERAL NOTES

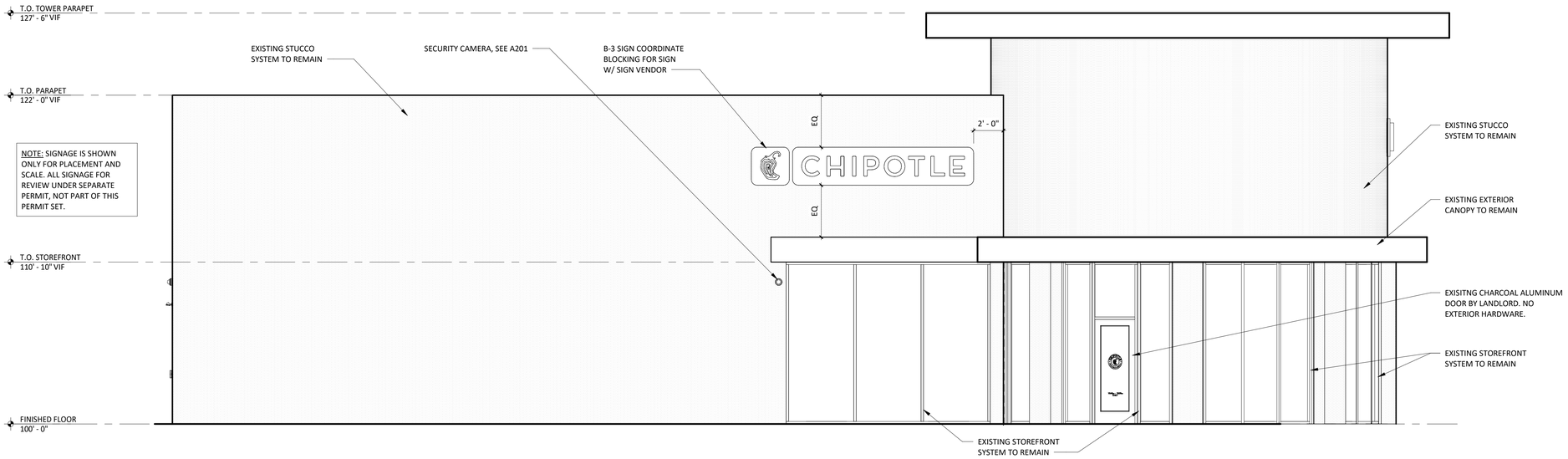
1.	REFER TO EXTERIOR ELEVATIONS THIS SHEET FOR EXTERIOR SIGNAGE LOCATIONS, SIZES & DESCRIPTIONS.
2.	EXTERIOR SIGNAGE PROVIDE BY TSV. GC TO MAKE FINAL CONNECTION.



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



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



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

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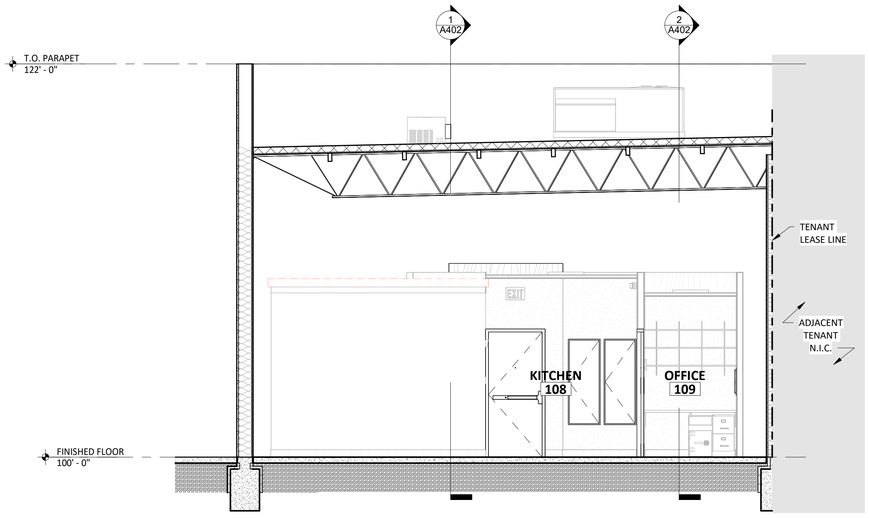
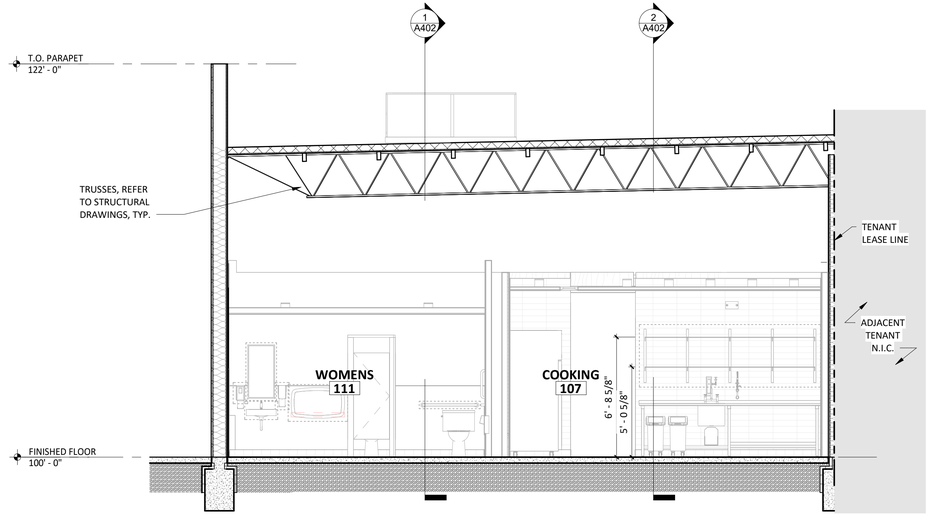
EXTERIOR ELEVATIONS

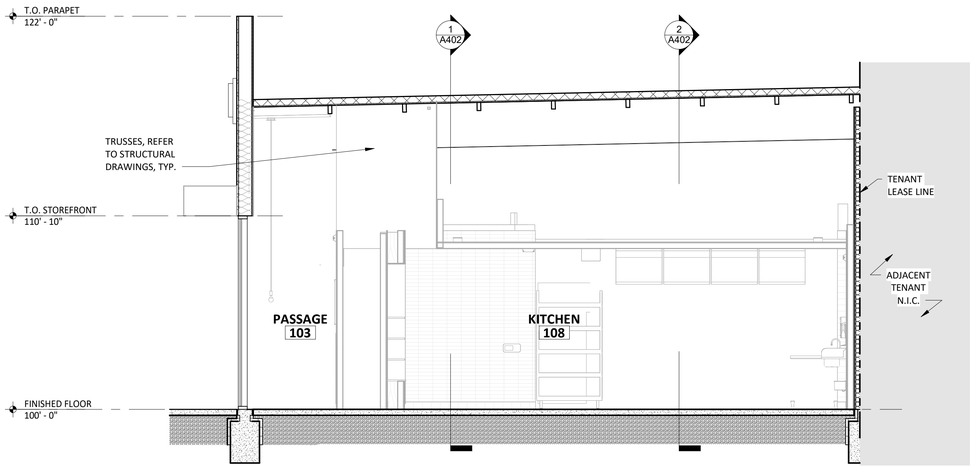
A301



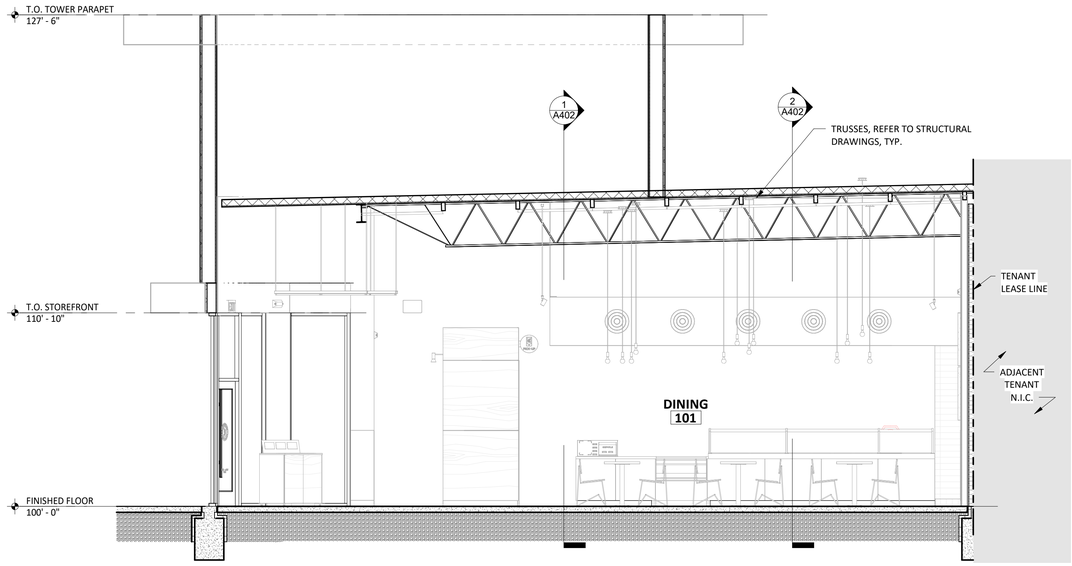
4 A401 **BUILDING SECTION**
1/4" = 1'-0"



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



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



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

Consultant:

INTERIOR ARCHITECTS

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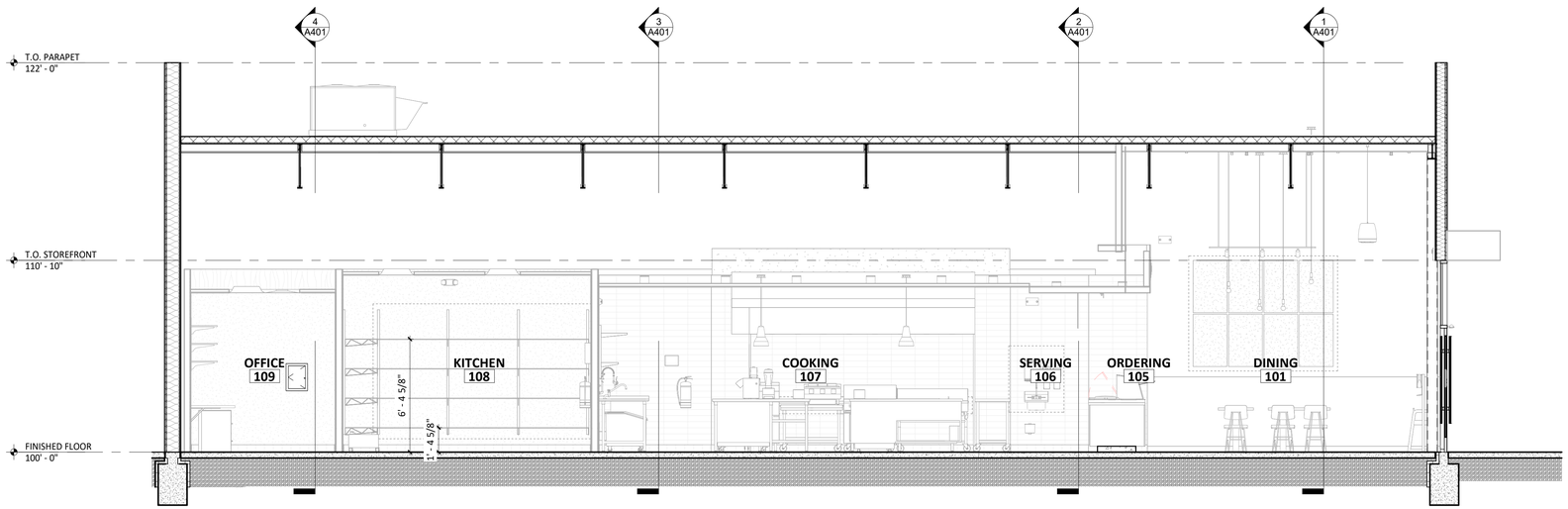
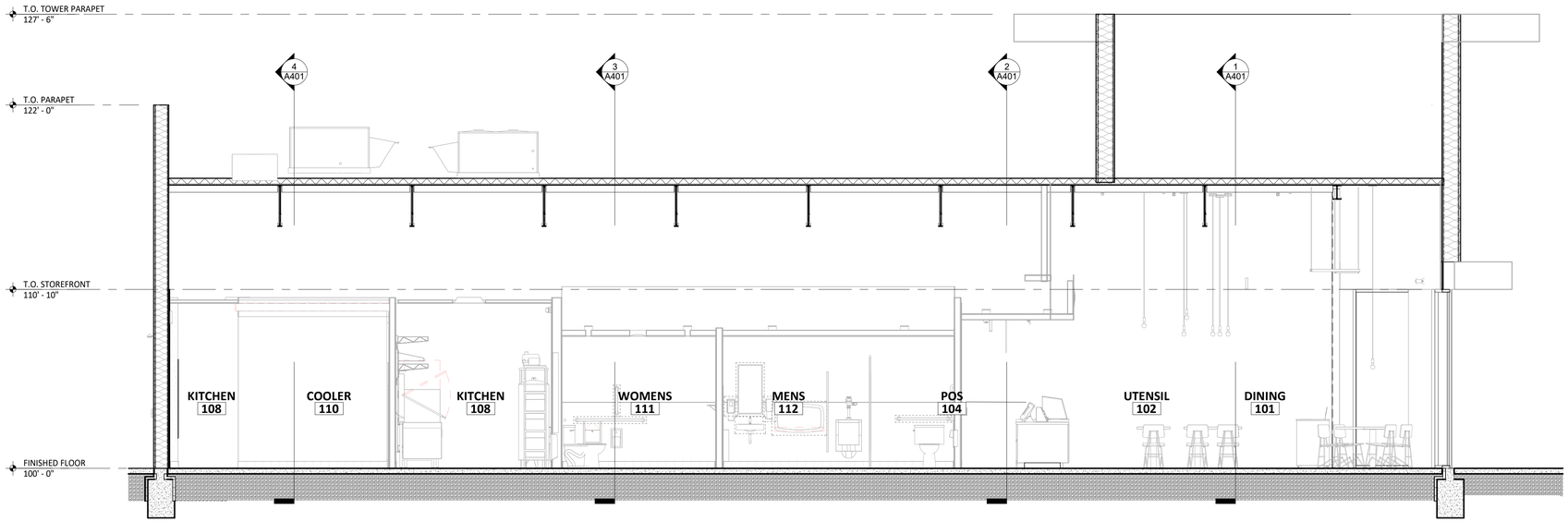
BUILDING SECTIONS

A401



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



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

Consultant:

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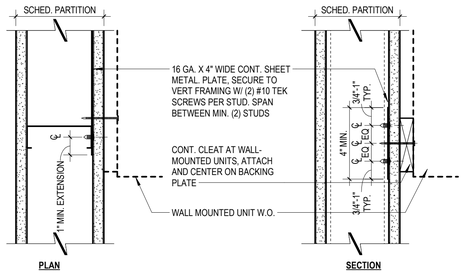
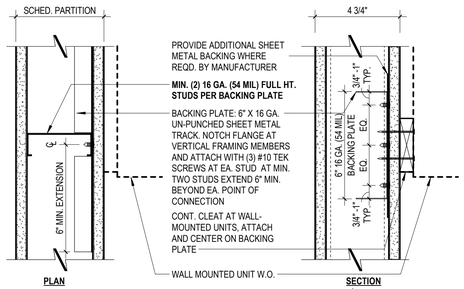
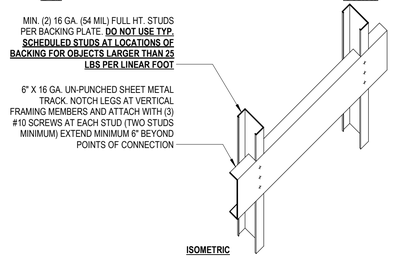
BUILDING SECTIONS

A402



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



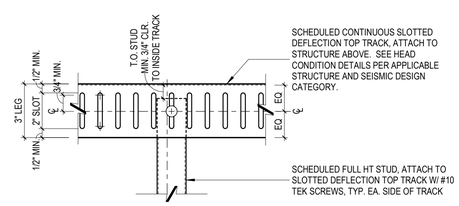


ISOMETRIC

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

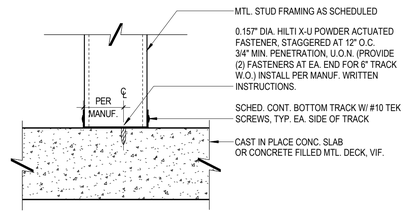
NOTE:
1. COORDINATE BACKING PLATE LOCATION WITH ACCESSORY MANUFACTURER'S MOUNTING INSTRUCTIONS.
2. COORDINATE FULL HT. STUD GAUGE FOR ALL LOCATIONS BETWEEN 25 LBS AND 100 LBS PER LINEAR FOOT.
3. SEE STRUCTURAL DRAWINGS FOR PARTITION BLOCKING AND FRAMING FOR HEAVIER LOADS.
4. PROVIDE PARTITION BACKING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

2 A501 **TYPICAL IN-WALL BACKING FOR WALL MOUNTED UNITS**
3" = 1'-0"



INTERIOR FRAMING - SLOTTED DEFLECTION TOP TRACK ELEVATION

3 A501 3" = 1'-0"

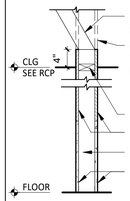


1 A501 **INTERIOR FRAMING - SILL CONDITION**
3" = 1'-0"

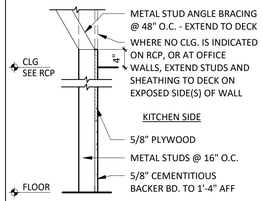
WALL TYPES

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

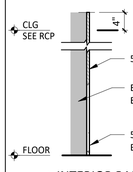
NOTE: ALL CONCEALED WOOD TO BE FRT RATED



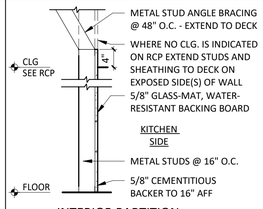
W1 INTERIOR PARTITION



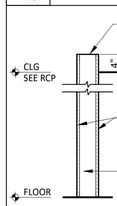
W1a INTERIOR PARTITION



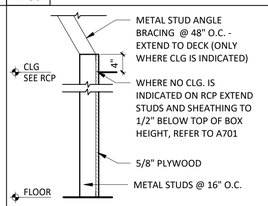
W1ax INTERIOR PARTITION



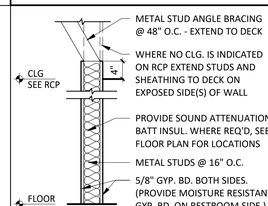
W3a INTERIOR PARTITION



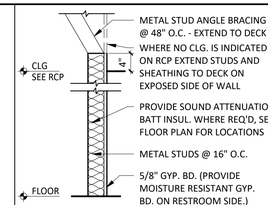
W4 INTERIOR PARTITION



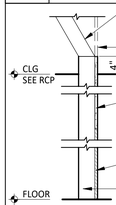
W4a INTERIOR PARTITION



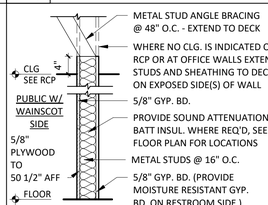
W5 INTERIOR PARTITION



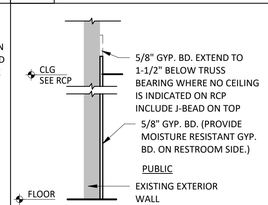
W5a INTERIOR PARTITION



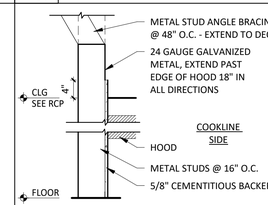
W10a INTERIOR PARTITION



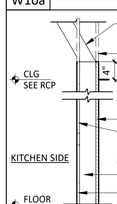
W14 INTERIOR PARTITION



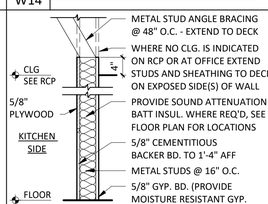
W15ax INTERIOR PARTITION



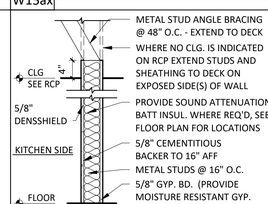
W26a INTERIOR PARTITION



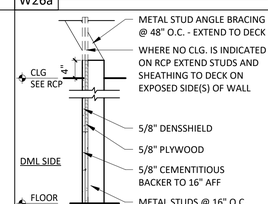
W28 INTERIOR PARTITION



W6 INTERIOR PARTITION



W9 INTERIOR PARTITION



W22a INTERIOR PARTITION

GENERAL NOTES

REFER TO FINISH SCHEDULE AND CERAMIC TILE WALL FINISHES KEY PLAN ON SHEET A120 FOR WALL FINISHES, REFER TO FLOOR PLAN ON A110 FOR METAL STUD SIZE.

STUD SCHEDULE & NOTES

SIZE/TYPE	MAX. HEIGHT @ 5PSF, L/240	MAX. HEIGHT @ 5PSF, L/360
362S125-18	UP TO 12'-2"	UP TO 11'-4"
362S125-68	UP TO 19'-11"	UP TO 17'-5"
600S125-30	UP TO 22'-11"	UP TO 20'-0"

1. ALL HEIGHTS REFER TO NON-COMPOSITE, FULLY BRACED PARTITIONS
2. ALL HEIGHTS BASED ON 16" O.C. SPACING. U.O.N
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. ALL NONSTRUCTURAL INTERIOR WALLS MUST WITHSTAND A MIN. OF 5 PSF LATERAL LOAD AND AS REQUIRED BY THE LOCAL AUTHORITY HAVING JURISDICTION AND THE APPLICABLE BUILDING CODE
9. TYPICAL DEFLECTION REQUIREMENTS: (L=LENGTH IN INCHES).

- L/360 FOR BRITTLE MATERIALS SUCH AS TILE AND STONE
- L/240 FOR ALL OTHER INTERIOR MATERIALS.

Consultant:

INTERIOR ARCHITECTS

SAN FRANCISCO
500 SANSOME STREET, 8TH FLOOR
SAN FRANCISCO, CA 94111
TEL 415-434-3305

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RICHMOND, CA 94806

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Project No.

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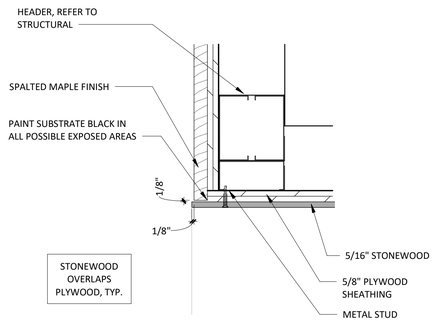
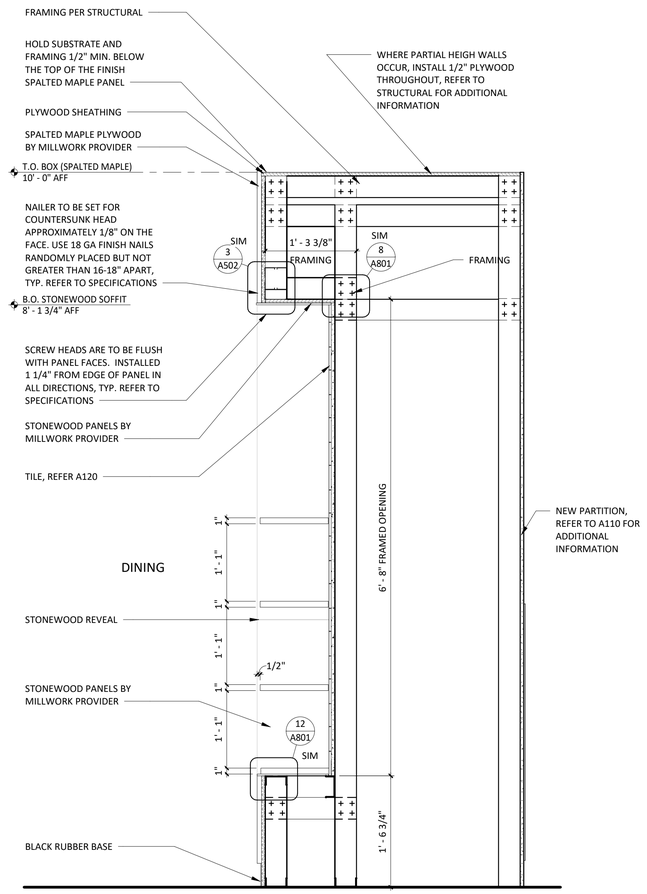
Contents:

ARCHITECTURAL WALL TYPES

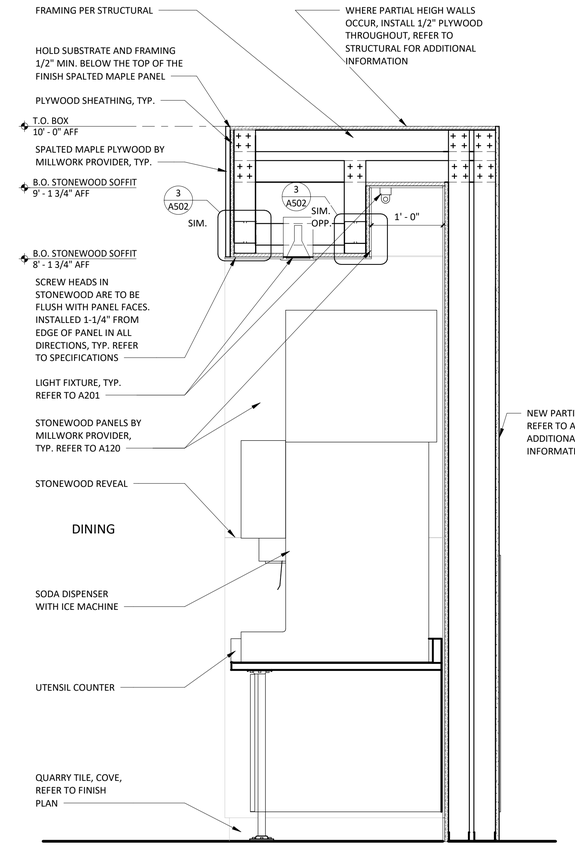
A501



3 A502 **SECTION- WOOD TO STONEWOOD CORNER**
3" = 1'-0"



2 A502 **MOPUS SECTION - NO PASS-THRU**
1" = 1'-0"



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

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Contents:
INTERIOR SECTIONS

A502

DOOR SCHEDULE

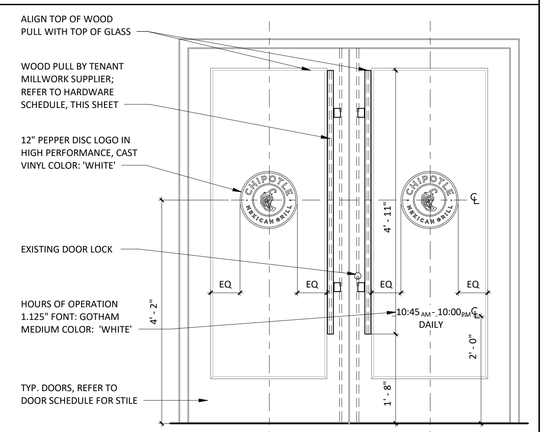
TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	DOOR THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	FRAME MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	EXISTING	EXISTING	DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	EXISTING	EXISTING	EXISTING	EXISTING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

REMARK NOTES

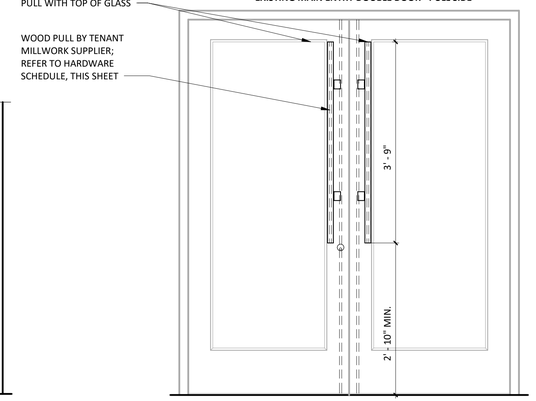
1. DOORS WITH REMARK #1 TO BE KEYED THE SAME
2. EXIT INDICATOR ARRIVES WITH SIGNS STATING "THIS DOOR TO REMAIN UNLOCKED DURING BUSINESS HOURS" AND "THIS DOOR TO REMAIN UNLOCKED WHEN THE BUILDING IS OCCUPIED". VERIFY REQUIRED SIGN WORDING WITH LOCAL JURISDICTION PRIOR TO INSTALLATION. ONE SIGN IS TO BE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



EXISTING MAIN ENTRY DOUBLE DOOR - PULL SIDE



EXISTING MAIN ENTRY DOUBLE DOOR - PUSH SIDE

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH - EXISTING		
(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 MS18505-310-628
(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 S239A-72 (SIZE 72")
(2)	WEATHERSTRIP	REESE, MODEL 797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR),OWNER FURNISHED

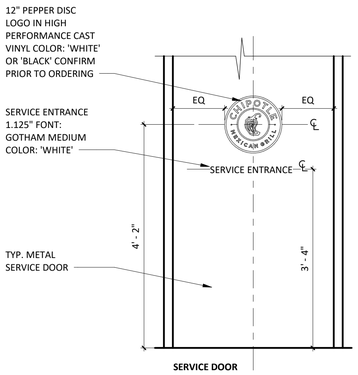
SET 2A - ENTRY - SINGLE - NON-OFFSET - PANIC HARDWARE - EXISTING		
(1)	HINGE	180 DEGREE HINGE, REFER TO LANDLORD DRAWINGS FOR ADDITIONAL INFORMATION
(1)	PUSH HARDWARE	ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE	NONE, BLANK PLATE
(1)	CLOSER	REFER TO LANDLORD DRAWINGS FOR ADDITIONAL INFORMATION
(1)	CLOSER BACK PLATE	REFER TO LANDLORD DRAWINGS FOR ADDITIONAL INFORMATION
(1)	OVERHEAD STOP	REFER TO LANDLORD DRAWINGS FOR ADDITIONAL INFORMATION
(1)	THRESHOLD	REESE, MODEL S424A-36 (SIZE 36")
(1)	WEATHERSTRIP	REESE, MODEL 797B-21
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

SET 3 - REAR EXIT - SINGLE - EXISTING		
(1)	HINGE	HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE	FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE	FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER	GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A-42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER	IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	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 5B - MENS RESTROOM - MULTI-OCCUPANT - STANDARD		
(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26D (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	PUSH PLATE	HIAWATH, MODEL 200F-32D STAINLESS STEEL
(1)	NON OFFSET PULL	HIAWATHA, MODEL 535B-32D STAINLESS STEEL
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

SET 6B - WOMENS RESTROOM - MULTI-OCCUPANT - STANDARD		
(3)	HINGE	STANLEY, MODEL FBB179-4.5-US26D (06-8438)
(1)	CLOSER	FALCON, MODEL: SC61xRW/PAxALU
(1)	PUSH PLATE	HIAWATH, MODEL 200F-32D STAINLESS STEEL
(1)	NON OFFSET PULL	HIAWATHA, MODEL 535B-32D STAINLESS STEEL
(1)	DOOR STOP	DON-JO, 1407-630
(3)	DOOR SILENCERS	IVES, MODEL SR64
(2)	KICKPLATE	HIAWATHA, MODEL KP834-US32D

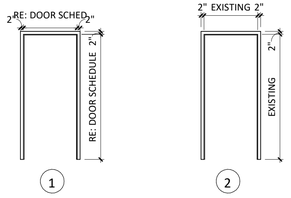


SERVICE DOOR

DOOR NOTES

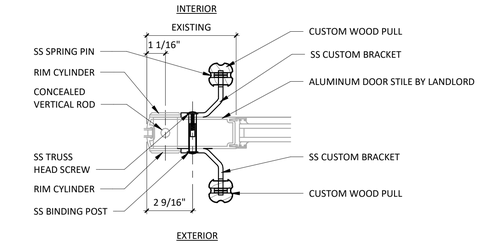
1. ALL EGRESS DOORS SHALL BE READILY OPENABLE FROM THE EGRESS SIDE WITHOUT THE USE OF A KEY OR SPECIAL KNOWLEDGE OR EFFORT.
2. LATCHES, HANDLES, PANIC BARS AND ALL DOOR HARDWARE WILL COMPLY WITH SECTION 7.2 OF NFPA 101 PER THE SPECIFICATIONS.
3. THE MANAGER HAS A KEY TO UNLOCK RESTROOM DOORS, FROM THE 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

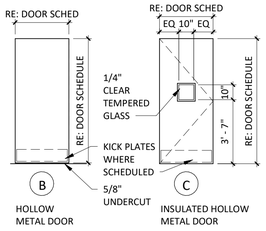


NOTE: GC TO VERIFY THE WALL THICKNESS PRIOR TO ORDERING DOOR FRAMES.

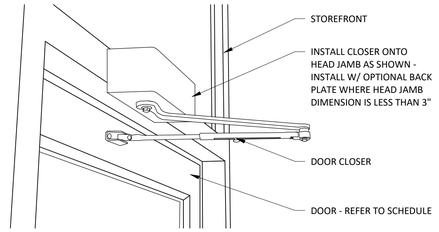
CUSTOM WOOD PULL



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.

Consultant:

INTERIOR ARCHITECTS

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Contents:

DOOR & HARDWARE SCHEDULE

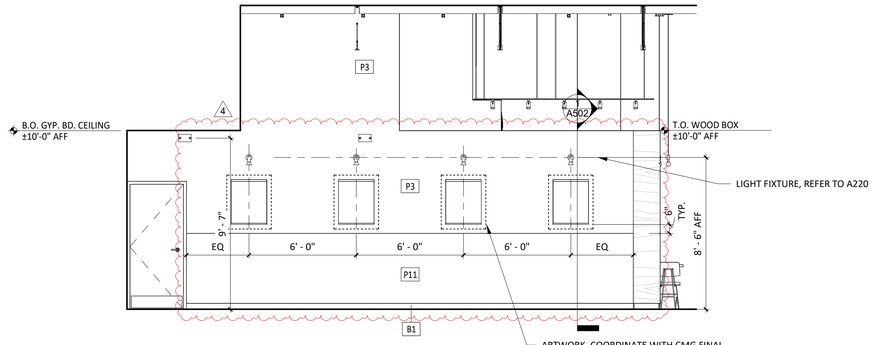
A601

ELEVATION LEGEND

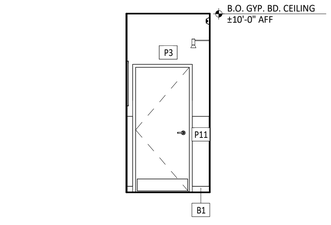
DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

GENERAL NOTES

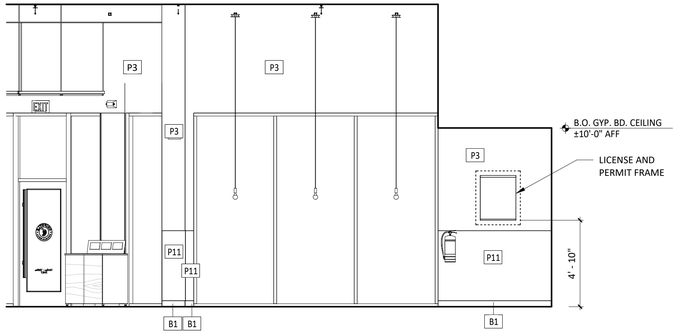
1. REFER TO SHEET A131 AND A132 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. REFER TO A120 FOR FINISH SCHEDULE.
3. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



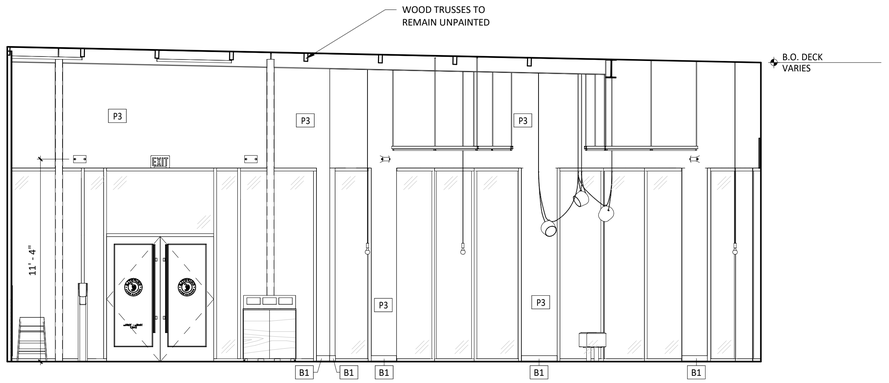
8 A701 **INT ELEV - DINING**
1/4" = 1'-0"



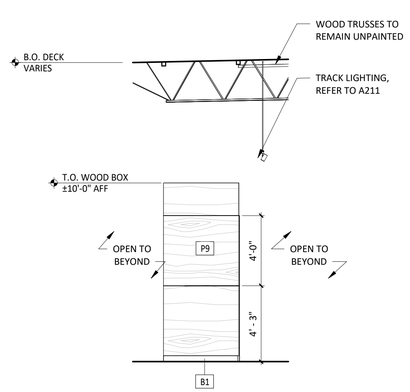
7 A701 **INT ELEV - DINING**
1/4" = 1'-0"



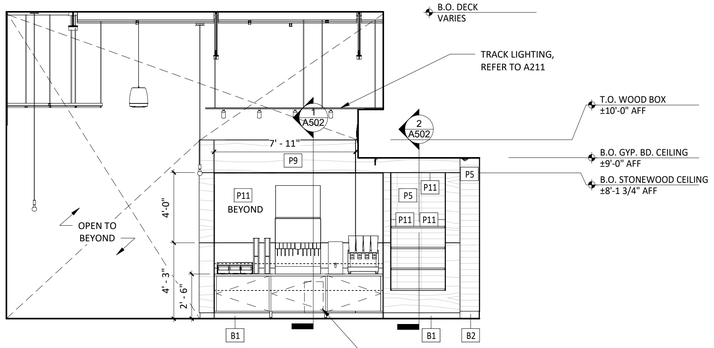
6 A701 **INT ELEV - DINING**
1/4" = 1'-0"



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



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



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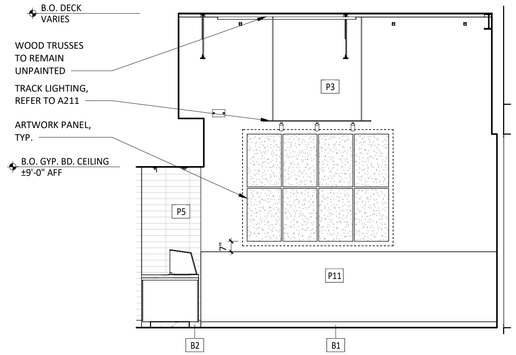
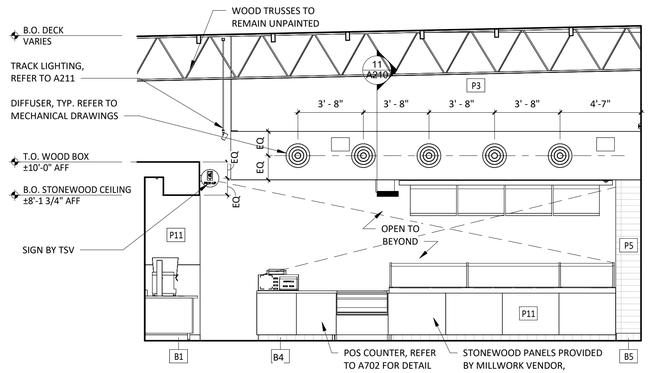
1/4" = 1'-0"



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



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

Consultant:

INTERIOR ARCHITECTS

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SAN FRANCISCO, CA 94111
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Issue Record:

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1	04/19/24	PERMIT COMMENTS
2	05/31/24	PERMIT COMMENTS #2
4	07/24/24	IFC

Project No.
24CMGX.0025.000

Contents:
ELEVATIONS - INTERIOR DINING

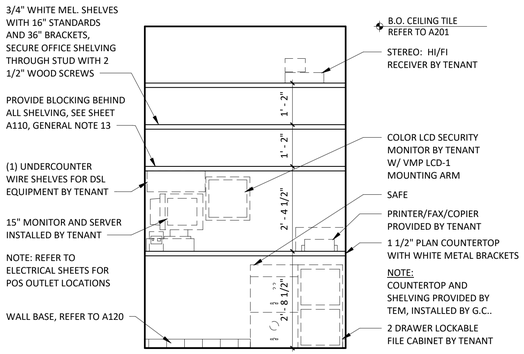
A701

ELEVATION LEGEND

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

GENERAL NOTES

1. REFER TO SHEET A131 FOR EQUIPMENT LIST AND FURNITURE SCHEDULE.
2. PROVIDE FULL HEIGHT BLOCKING IN WALL FOR ALL SHELVING, TYP.
3. REFER TO A120 FOR FINISH SCHEDULE
4. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.



16 A702 **TYP ELEV - OFFICE SHELVING**
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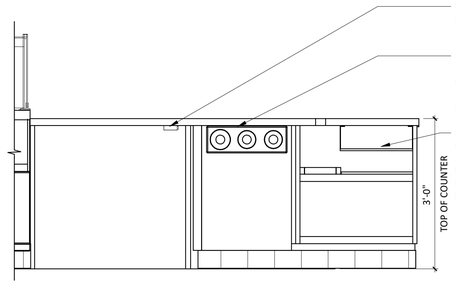
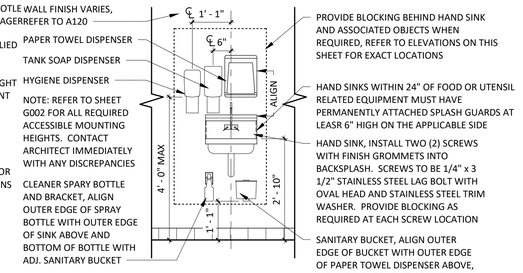


15 A702 **TYP. ELEV - POS**
3/4" = 1'-0"

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



14 A702 **TYP ELEV - HAND SINK**
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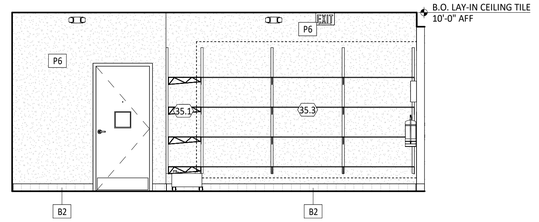

13 A702 **INT ELEV - KITCHEN**
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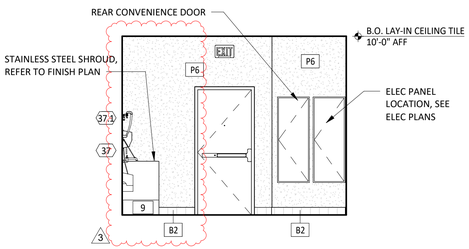

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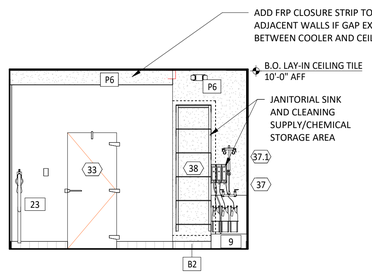

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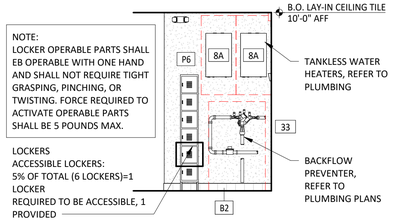
1/4" = 1'-0"



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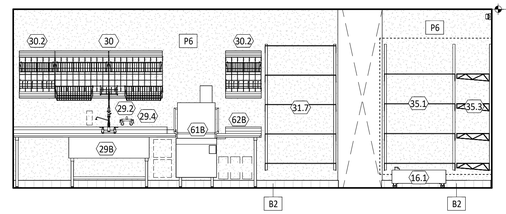
1/4" = 1'-0"



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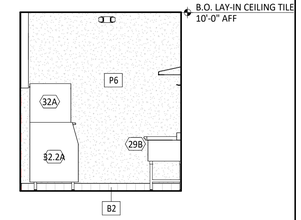
1/4" = 1'-0"



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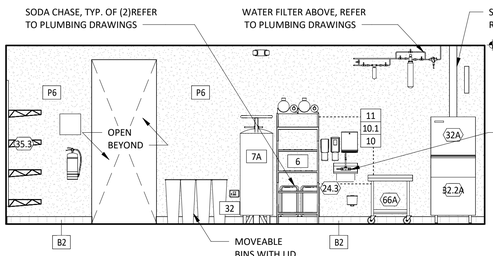
1/4" = 1'-0"



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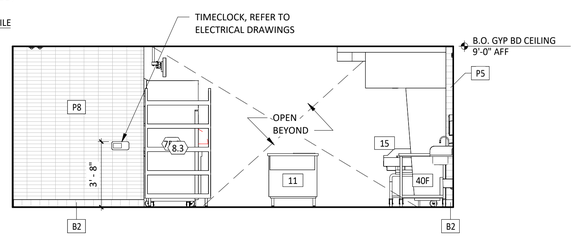
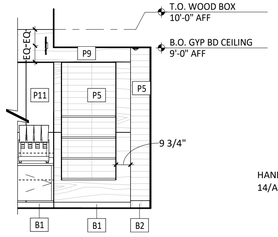


6 A702 **INT ELEV - KITCHEN**
1/4" = 1'-0"



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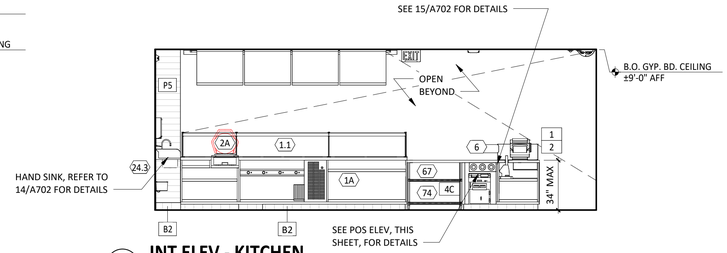
1/4" = 1'-0"



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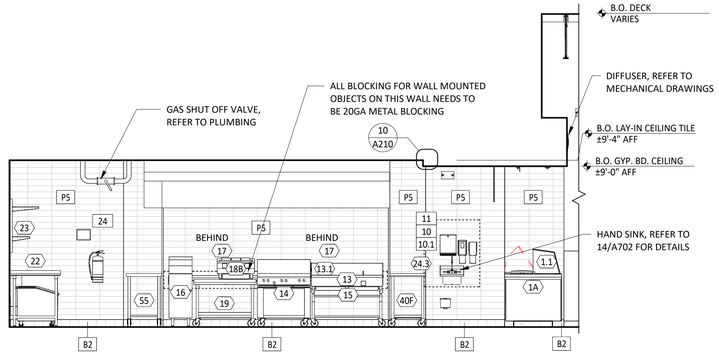
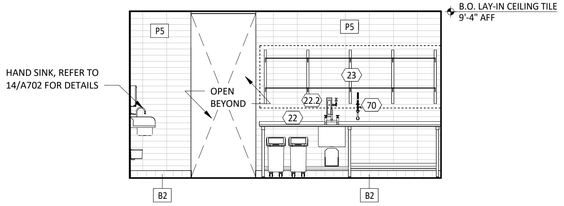
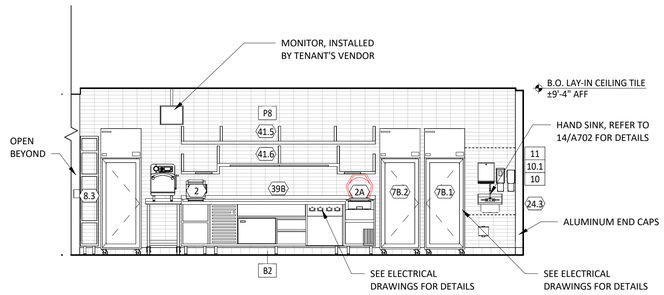
1/4" = 1'-0"



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



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



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

Consultant:

INTERIOR ARCHITECTS

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Issue Record:

03/04/2024	PERMIT SET

Revisions:

1	04/19/24	PERMIT COMMENTS
2	05/31/24	PERMIT COMMENTS #2
3	06/14/24	PERMIT COMMENTS #3
4	07/24/24	IFC

Project No.
24CMGX.0025.000

Contents:
ELEVATIONS - INTERIOR KITCHEN

A702

GENERAL NOTES

1.	ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTED.
2.	REFER TO A802 FOR TILE NOTES.
3.	ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4.	REFER TO A120 FOR FINISH SCHEDULE.
5	REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

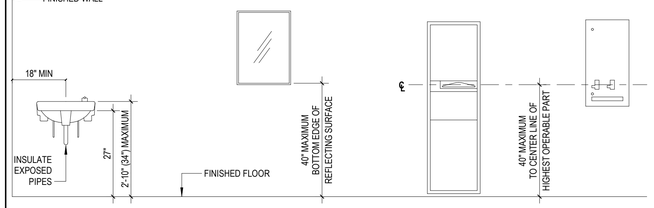
ELEVATION LEGEND

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

RESTROOM ACCESSORY SCHEDULE

ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	MOUNTING HEIGHT	REMARKS
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC	36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC	40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC	36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
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
7.1	Surface Mounted Toilet Paper Dispenser	ASI	OO30	1	WA	GC	29" AFF to Top of Unit	If Wall Mounted, Provide Plywood Blocking to Mount to Wall
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
13	Toilet Partition	Hadrian	Color: 621 Slate	3	WA	GC	Floor Anchored w/ Overhead Brace	Run Partition From 1'-0" AFF to 7'-0" AFF
13.1	Urinal Partition	Hadrian	Color: 621 Slate	1	WA	GC	Wall Anchored	Run Partition From 1'-0" AFF to 5'-10" AFF
14	Restroom Hand Sink	Kohler	K-2084	2	GC	GC	Mount Bottom of Front Edge Of The Sink At Exactly 29" AFF	
14.1	Restroom Hand Sink Faucet	T&S	EC-3102-TMV-LF-05	2	KES	GC		To Be Furnished With .5 GPM Aerator Installed. Thermostatic mixing valve is also included.
15	Hand Sanitizer Dispenser	Purell	ES8	2	WA	GC	Align T.O. Unit With T.O. Soap Dispenser	
16A	Surface Mounted Horizontal Baby Changing Station	Koala Care	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

LAVATORY

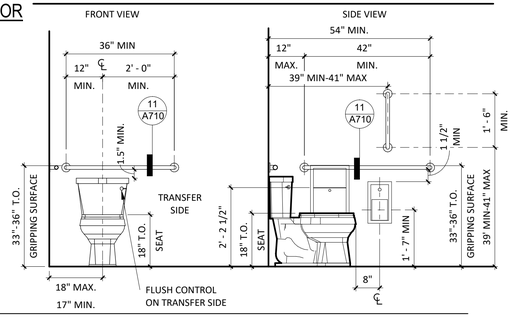


MIRROR

PAPER TOWEL DISPENSER/TRASH

SANITARY NnapkIN/ TAMPON VENDOR

ACCESSIBLE RESTROOM STALL -TP UNIT HORIZONTAL



RESTROOM TYPICAL MOUNTING DETAILS

14 A710 — 1/2" = 1'-0"

DEVICE MOUNTING BRACKET ATTACHED WITH (6) 1/4" x 3" SIMPSON SDS SCREWS

(N) 4x WOOD BLOCKING FASTENED TO METAL STUDS WITH SIMPSON A34 CLIP T&B EACH SIDE. PROVIDE ATTACHMENT TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE DEVICE IN COMPLIANCE WITH 2022 CBC 11B-609.8

13 A710

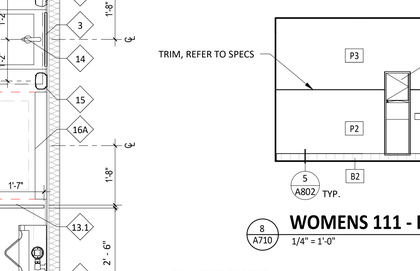
BABY CHANGING TABLE BLOCKING

BABY CHANGING STATION INSTALLATION NOTES

1. CONTRACTOR SHALL INSTALL BABY CHANGING STATION IN ACCORDANCE WITH LOAD REQUIREMENTS SET FORTH IN 2022 CBC 11B-609.8 REQUIREMENTS TO RESIST A SINGLE CONCENTRATED LOAD OF 250 POUNDS APPLIED IN ANY DIRECTION AT ANY POINT ON THE DEVICE.

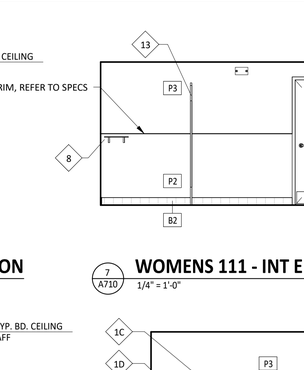
2. AS REQUIRED BY MANUFACTURER ALL BABY CHANGING STATIONS SHALL BE MOUNTED AND SECURED USING SCREWS AND ATTACHMENT METHODS SUPPLIED BY THE INSTALLER.

3. ALL MOUNTING HARDWARE MUST BE APPROPRIATE FOR WALL CONSTRUCTION AND WALL ANCHORS/ BACKING/BLOCKING USED MUST PROVIDE ADEQUATE SUPPORT FOR THE INTENDED LOAD REQUIREMENTS AS INDICATED IN 2022 CBC 1607.9.1.



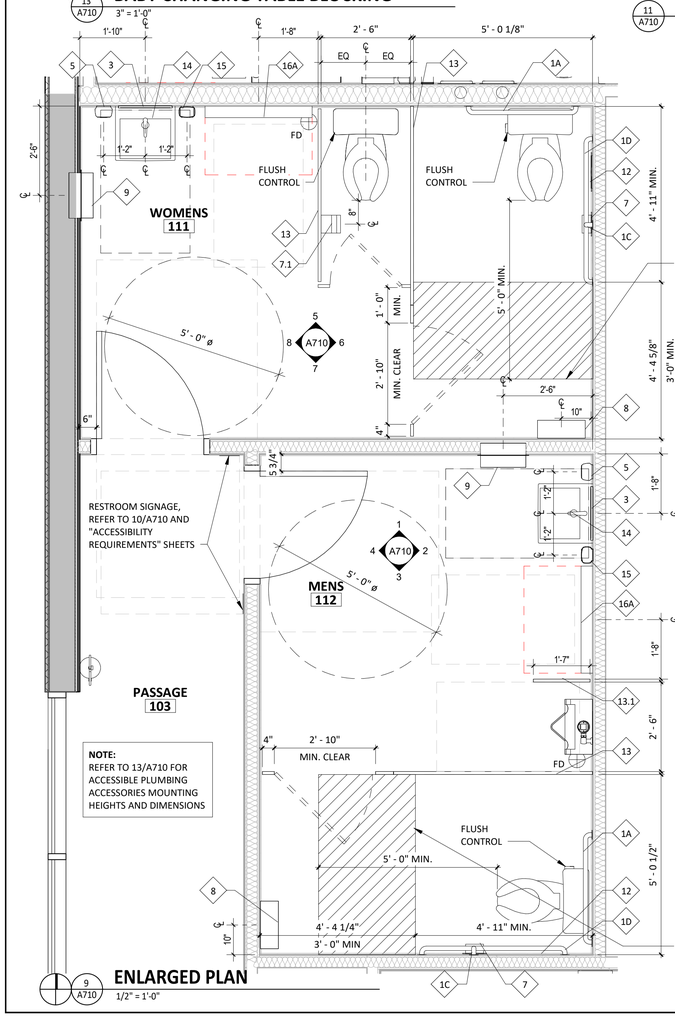
11 A710 — 6" = 1'-0"

TYP. GRAB BAR MOUNTING



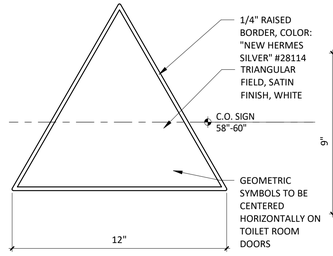
12 A710 — 1" = 1'-0"

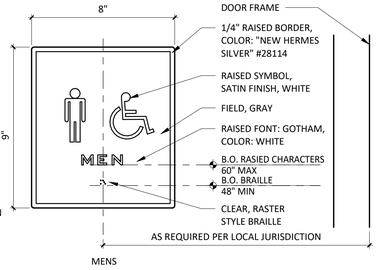
BABY CHANGING TABLE SECTION

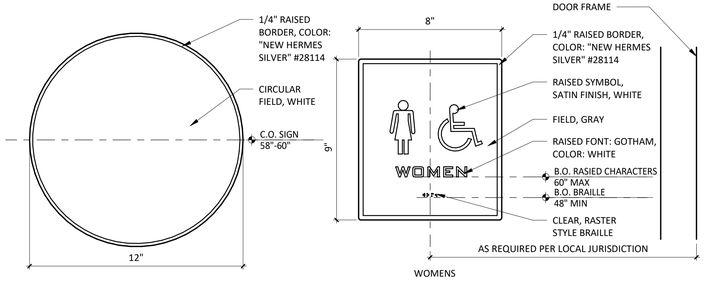


9 A710 — 1/2" = 1'-0"

ENLARGED PLAN

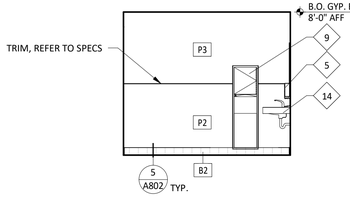






10 A710 — 3" = 1'-0"

TYP WASHROOM SIGN

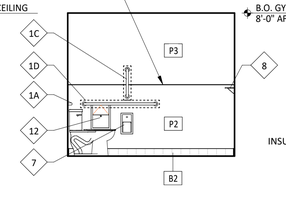


8 A710 — 1/4" = 1'-0"

WOMENS 111 - INT ELEVATION

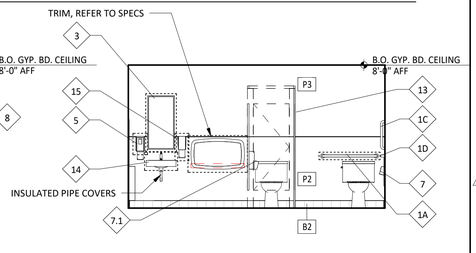
7 A710 — 1/4" = 1'-0"

WOMENS 111 - INT ELEVATION



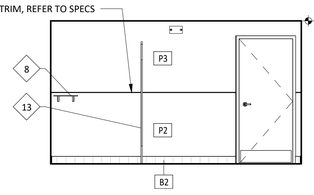
6 A710 — 1/4" = 1'-0"

WOMENS 111 - INT ELEVATION



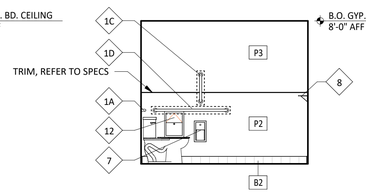
5 A710 — 1/4" = 1'-0"

WOMENS 111 - INT ELEVATION



4 A710 — 1/4" = 1'-0"

MENS 112 - INT ELEVATION



3 A710 — 1/4" = 1'-0"

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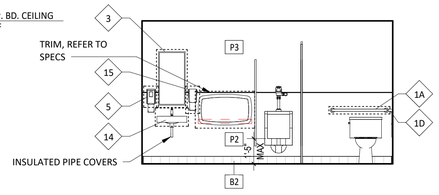
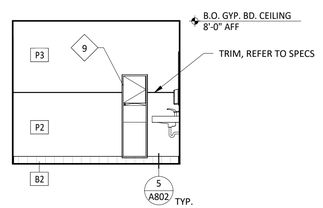


2 A710 — 1/4" = 1'-0"

MENS 112 - INT ELEVATION



1 A710 — 1/4" = 1'-0"

MENS 112 - INT ELEVATION

Consultant:

INTERIOR ARCHITECTS

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RICHMOND, CA 94806

Issue Record:

03/04/2024	PERMIT SET

Revisions:

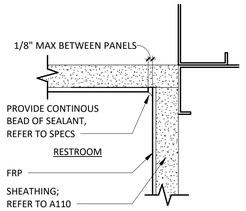
1	04/19/24	PERMIT COMMENTS
2	05/31/24	PERMIT COMMENTS #2
4	07/24/24	IFC

Project No.
24CMGX.0025.000

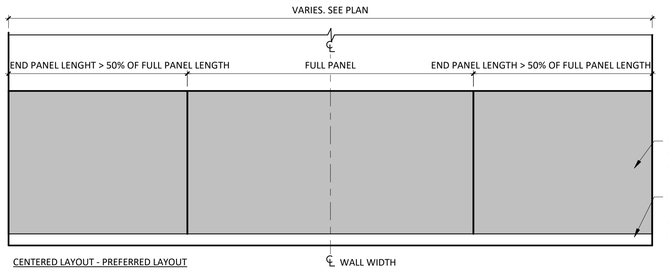
Contents:
RESTROOM DETAILS

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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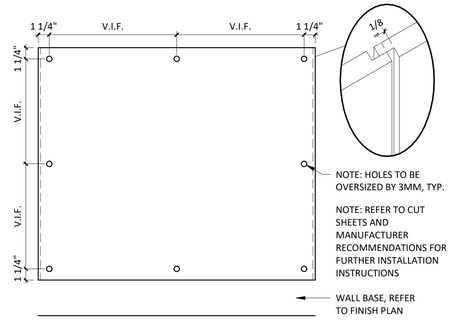
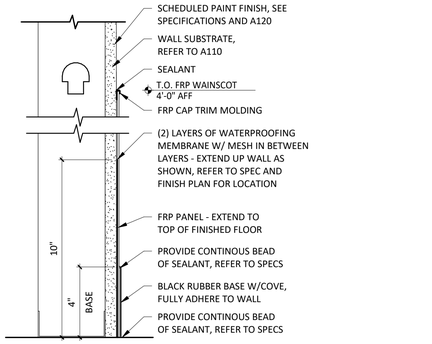


19 A801 **WAINSCOT DETAILS**
1 1/2" = 1'-0"



18 A801 **SECTION @ RR FRP WAINSCOT W/RUBBER BASE**
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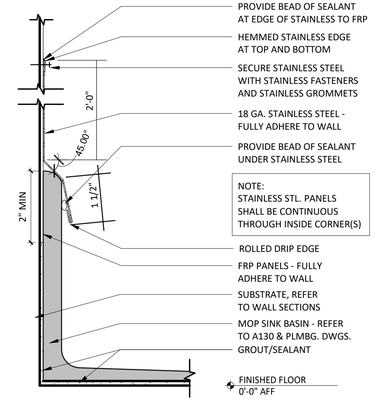

17 A801 **SECTION @ MOP SINK**
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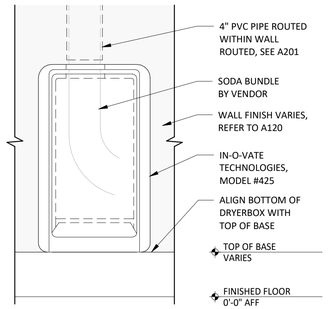
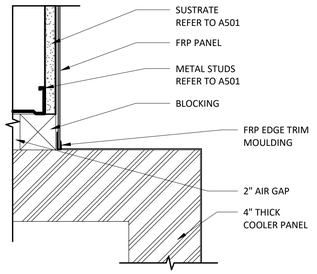
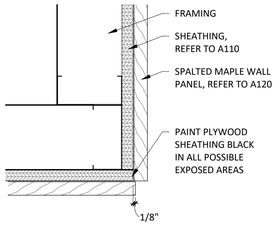


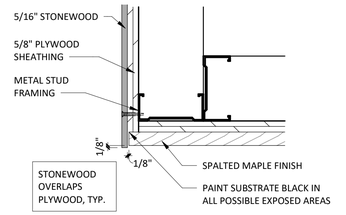
15 A801 **NOT USED**
N.T.S.



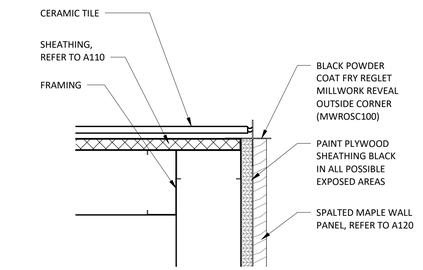
14 A801 **PLAN - FRP CLOSER @ COOLER**
3" = 1'-0"



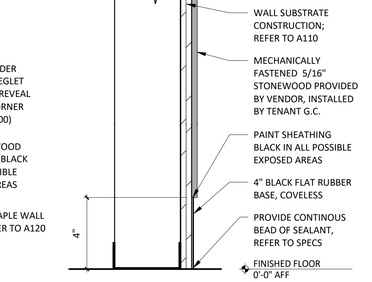
13 A801 **PLAN - WOOD TO WOOD CORNER**
3" = 1'-0"



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



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



10 A801 **PLAN - STONEWOOD TO GYP CORNER**
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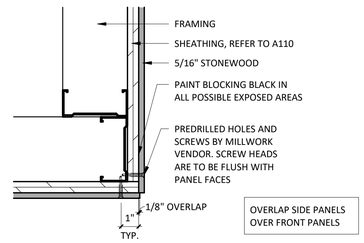

9 A801 **PLAN - STONEWOOD CORNER @ WAINSCOT**
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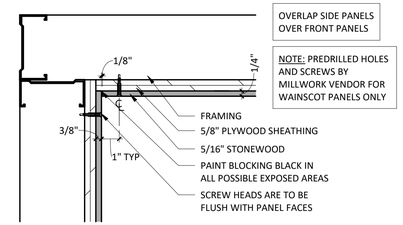

8 A801 **PLAN - STONEWOOD INSIDE CORNER**
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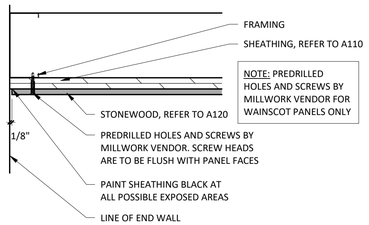
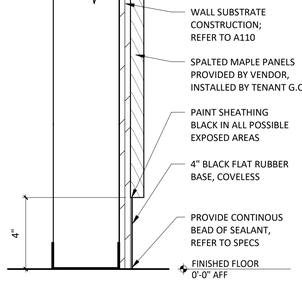


7 A801 **PLAN - STONEWOOD END CONDITION**
3" = 1'-0"

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

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



4 A801 **SECTION @ SPALTED MAPLE**
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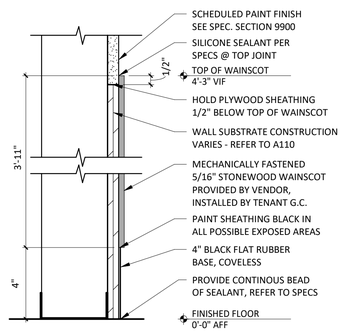
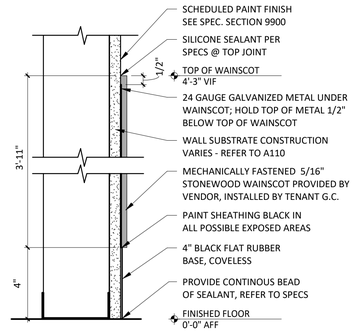


3 A801 **SECTION @ WAINSCOT**
3" = 1'-0"



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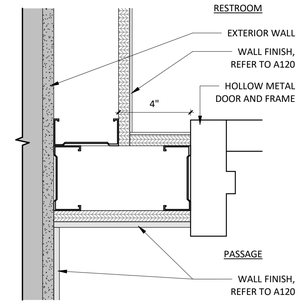
3" = 1'-0"



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

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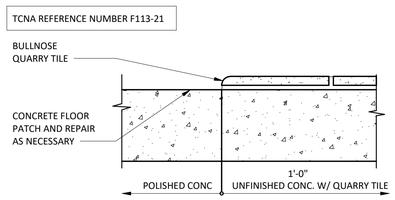
Contents:
FINISH DETAILS

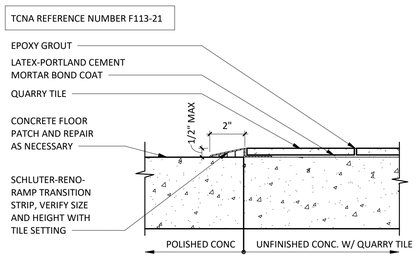
A801

GENERAL NOTES

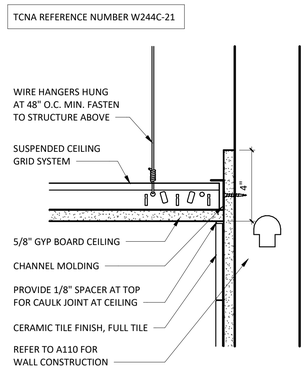
1.	TILE INSTALLER SHALL COORDINATE WITH GENERAL CONTRACTOR AND PROVIDE LAYOUT OF ALL WALL TILE PRIOR TO INSTALLATION. GENERAL CONTRACTOR SHALL PREPARE WALLS AS TO NOT HAVE ANY CUT TILES IN EITHER DIRECTION (HORIZONTALLY OR VERTICALLY) ON ANY WALLS. LAYOUT SHALL BE APPROVED BY CHIPOTLE CM PRIOR TO INSTALLATION.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



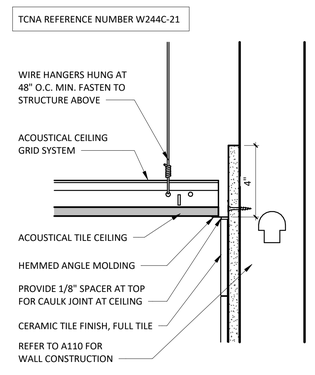
23 A802 **FLOOR TRANSITION @ READY TO DRINK**
3" = 1'-0"



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**
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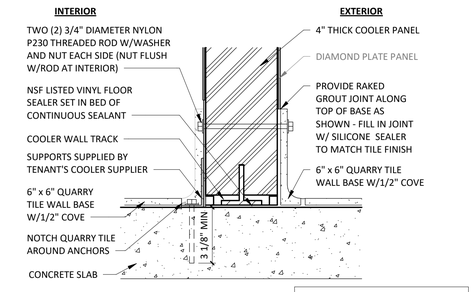

19 A802 **COOLER WALL @ QT**
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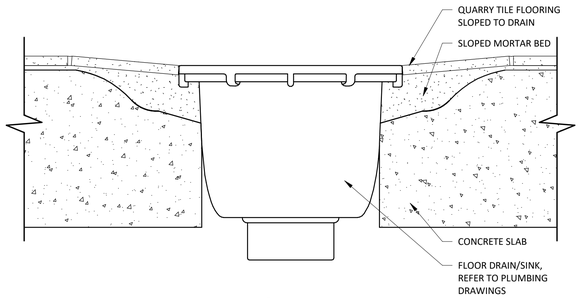
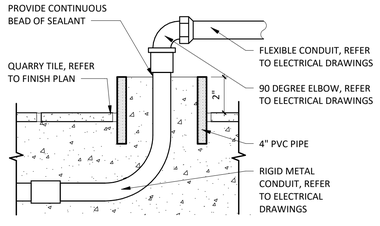
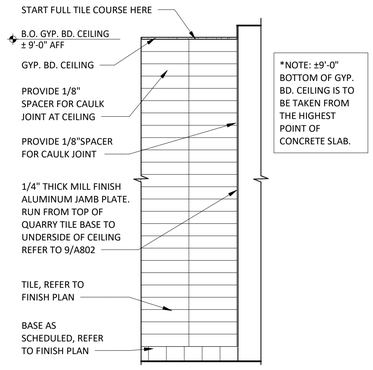


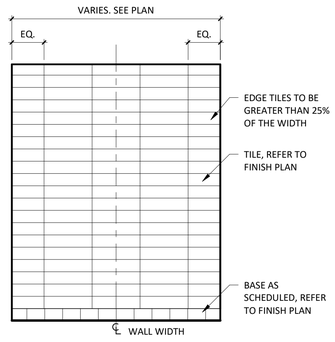
18 A802 **TYPICAL QT FLOOR DRAIN/SINK DETAIL**
3" = 1'-0"



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**
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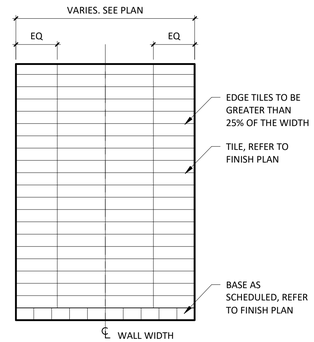

14 A802 **JOINT CENTERED LAYOUT**
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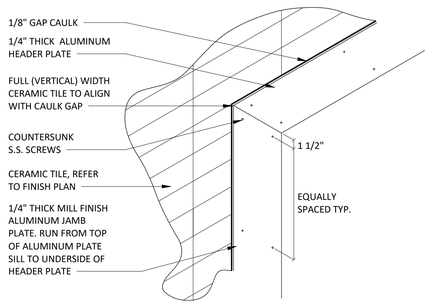
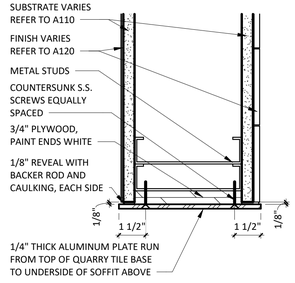


13 A802 **TILE DETAIL @ ALUMINUM PLATE HEADER**
1" = 1'-0"



12 A802 **ALUMINUM PLATE @ JAMB/HEAD/SILL**
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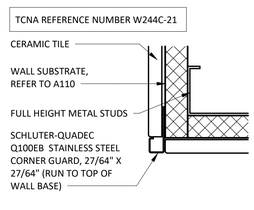
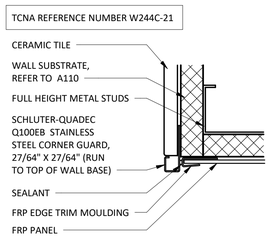
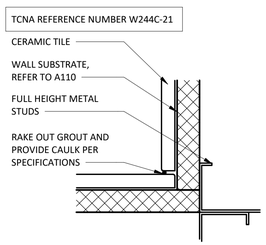


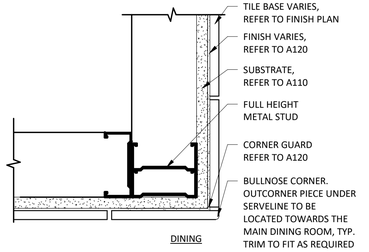
11 A802 **TILE TO TILE OUTSIDE CORNER**
6" = 1'-0"



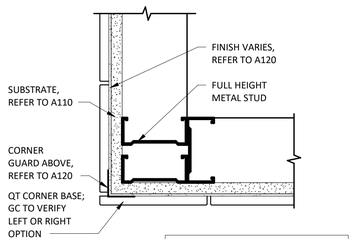
10 A802 **TILE TO FRP OUTSIDE CORNER**
6" = 1'-0"



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



8 A802 **TILE BASE - OUTSIDE CORNER (DINING)**
3" = 1'-0"
TCNA REFERENCE NUMBER W244C-21



7 A802 **QT BASE - OUTSIDE CORNER (KITCHEN)**
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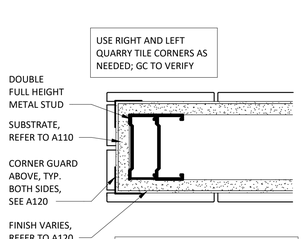

6 A802 **QT BASE - ENDCAP**
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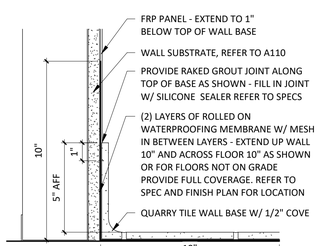

5 A802 **QT BASE @ FRP**
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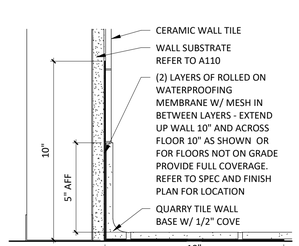

4 A802 **QT BASE @ CERAMIC TILE**
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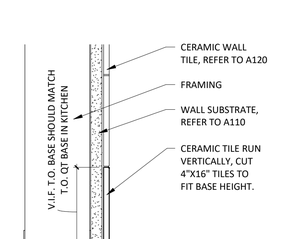

3 A802 **CERAMIC TILE BASE**
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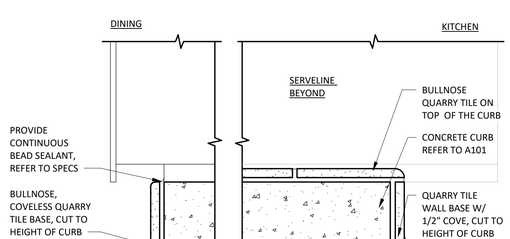
TCNA REFERENCE NUMBER W244C-21



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

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

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4 A900 **INTERIOR PERSPECTIVE**

3 A900 **INTERIOR PERSPECTIVE**

2 A900 **INTERIOR PERSPECTIVE**

1 A900 **INTERIOR PERSPECTIVE**

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Project No.
24CMGX.0025.000

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1 A901 **EXTERIOR PERSPECTIVE**

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EXTERIOR PERSPECTIVES

A901

ABBREVIATIONS

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

GENERAL STRUCTURAL NOTES

GENERAL

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

- GOVERNING CODE:	2022 CALIFORNIA BUILDING CODE
- BUILDING RISK CATEGORY:	CATEGORY II
ROOF LIVE LOADS	
- ORDINARY FLAT, PITCHED, AND CURVED ROOFS	20 PSF
- FABRIC AWNINGS AND CANOPIES	5 PSF
SNOW LOADS	
- GROUND SNOW LOAD (Pg)	0 PSF
- FLAT ROOF SNOW LOAD (Pf)	0 PSF
- SNOW EXPOSURE FACTOR (Ce)	1.0
- SNOW LOAD IMPORTANCE FACTOR (Is)	1.0
- THERMAL FACTOR (Ct)	1.0
WIND LOADS	
- WIND IMPORTANCE FACTOR	1.0
- BASIC ULTIMATE WIND SPEED (V ult)	92 MPH
- BASIC ALLOWABLE WIND SPEED (V asd)	72 PSF
- SITE EXPOSURE CATEGORY	C
- INTERNAL PRESSURE COEFFICIENT	+/- 0.18
SEISMIC LOADS:	
- SEISMIC IMPORTANCE FACTOR	1.0
- MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	2.407
- MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	0.917
- SEISMIC SITE CLASS	D
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sds)	1.926
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1)	1.039
- SEISMIC DESIGN CATEGORY	E
SPECIAL LOADS	
- INTERIOR WALLS & PARTITIONS	5 PSF HORIZONTAL
- HANDRAIL LOADS (ANY DIRECTION)	50 PLF/200# CONC.

REINFORCED CONCRETE

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

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

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

STRUCTURAL LUMBER

1. MATERIALS:
   A. STRUCTURAL LUMBER: ALL DESIGN VALUES PER 2015 NFPA NATIONAL DESIGN SPECIFICATION. ANY SUBSTITUTIONS ARE TO MEET MINIMUM DESIGN VALUES OF ABOVE MEMBERS. UNLESS NOTED OTHERWISE FRAMING MATERIALS SHALL BE: DOUGLAS-FIR NO.1/NO.2
   B. ALL LUMBER IN CONTACT WITH CONCRETE, MASONRY, GROUND/SOIL, OR USED IN CONDITIONS WITH MOISTURE PRESENT, IS TO BE PRESSURE-TREATED TO RESIST DECAY. PRESERVATIVES USED FOR PRESSURE TREATMENT ARE TO BE ALKALINE COPPER QUAT, ACQ-C OR ACQ-D. OTHER PRESERVATIVES PROPOSED FOR USE ARE TO BE SUBMITTED FOR REVIEW PRIOR TO ERECTION OR INSTALLATION ON THE PROJECT.
2. SPECIFICATIONS:
   A. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION ARE TO BE GOVERNED BY THE LATEST REVISIONS OF:
      1. NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION.
      2. U.S. PRODUCT STANDARD PS-1 FOR CONSTRUCTION AND INDUSTRIAL PLYWOOD.
      3. APA PS 2-18, PERFORMANCE STANDARD FOR WOOD STRUCTURAL PANELS.
      4. APA DESIGN/CONSTRUCTION GUIDE - RESIDENTIAL AND COMMERCIAL.
3. CONNECTIONS:
   A. CONNECTIONS FOR WOOD MEMBERS SHALL BE MINIMALLY FASTENED AS PRESCRIBED IN TABLE 2304.10.1 OF THE REFERENCED BUILDING CODE UNLESS DETAILED OTHERWISE. ALL NAILS ARE TO BE COMMON WIRE NAILS, UNLESS SPECIFICALLY NOTED OTHERWISE.
   B. ALL HANGERS, STRAPS, CAPS, BASES, HOLDOWNS, TIES OR OTHER CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE BATCH/POST HOT DIPPED GALVANIZED PER ASTM A123 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
   C. ALL FASTENERS INCLUDING NAILS, ANCHOR RODS, POWDER ACTUATED FASTENERS, SCREWS, BOLTS, AND THREADED RODS, IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
   D. ALL MECHANICAL ANCHORS INCLUDING WEDGE ANCHORS AND SLEEVE ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.

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

TABLE 1
STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS OF SOILS

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

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION

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

CONCRETE REINFORCING CLEARANCES/COVER

(#3 - #11 BARS)

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

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

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

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

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

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

DRAWING INDEX

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S002	TYPICAL CFS DETAILS
S100	FOUNDATION PLAN
S101	ROOF FRAMING PLAN

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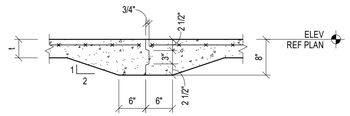
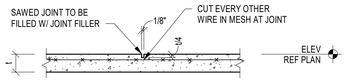
GENERAL STRUCTURAL NOTES

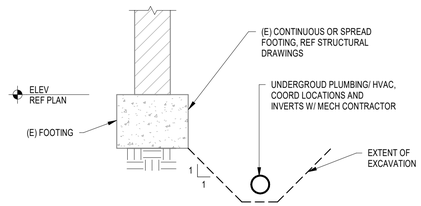
S000

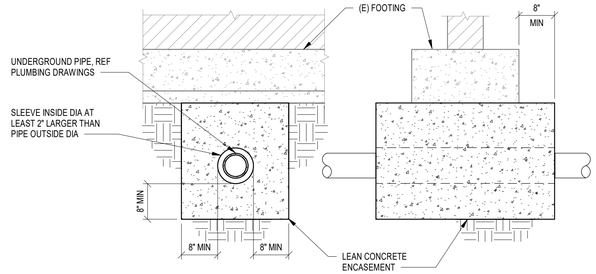


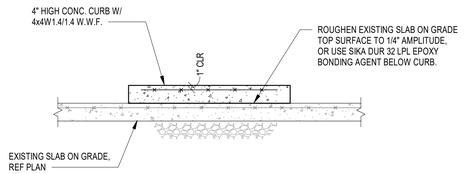
TYPICAL FLOOR CONSTRUCTION JOINT



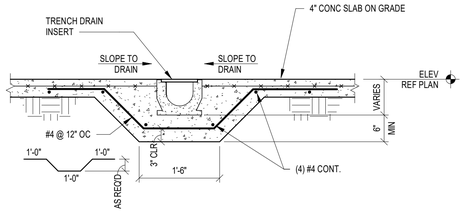
TYPICAL FLOOR CONTROL JOINT





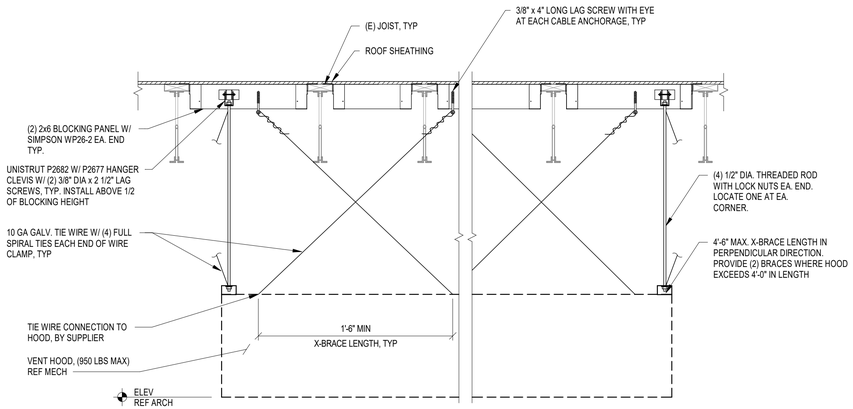


1 TYPICAL FLOOR CONTROL/CONSTRUCTION JOINT
NTS



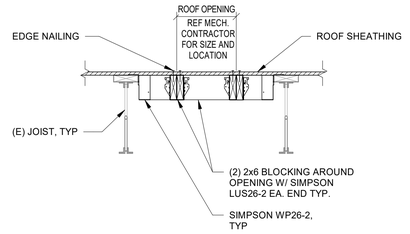
2 TYPICAL EXCAVATION CLEARANCE REQUIREMENTS
NTS

3 TYPICAL PLUMBING UNDER FOOTING DETAIL
NTS



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

4 CURB DETAIL
NTS

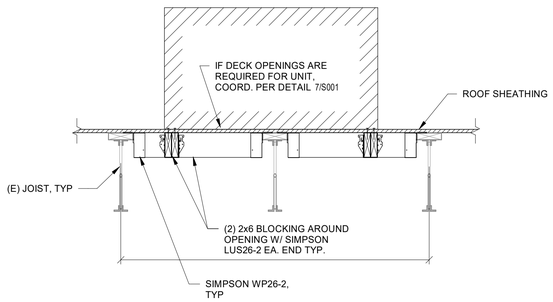


NOTE:
ANALYSIS OF ROOF TRUSSES TO SUPPORT ADDED EQUIPMENT IS BY SHELL BUILDING ENGINEER AND NOT INCLUDED IN BPA SCOPE OF WORK

5 TRENCH DETAIL
NTS

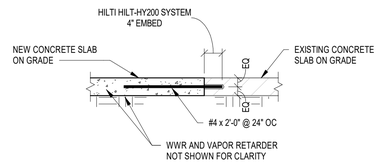
6 TYPICAL VENT HOOD SUPPORT
3/4" = 1'-0"

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



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

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



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

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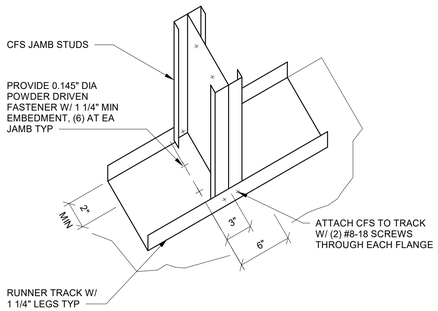
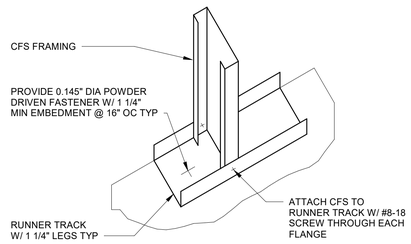
Contents:
TYPICAL DETAILS

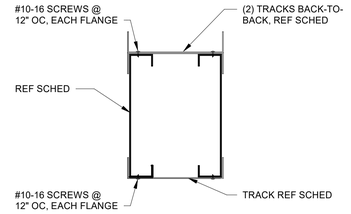
S001



1 ANCHORAGE AT JAMBS
3/4" = 1'-0"



2 RUNNER TRACK ANCHORAGE
3/4" = 1'-0"

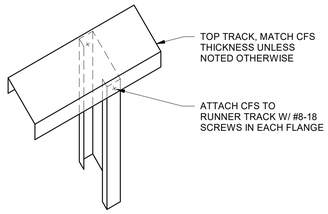


3 BOXED HEADER DETAIL
3/4" = 1'-0"

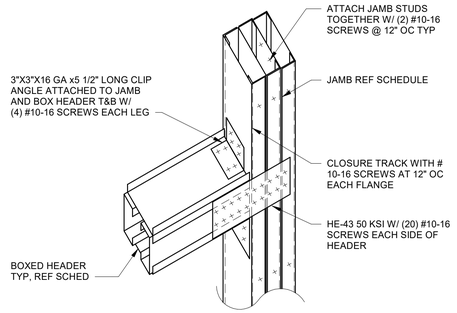
HEADER SCHEDULE			
SPAN	HEADER	JAMB	SILL
UP TO 10'-0"	1 HORIZONTAL STUD 3 HORIZONTAL TRACKS 2 VERTICAL STUDS W/ STIFFCLIP HE CONNECTION	2 VERTICAL STUDS 2 HORIZONTAL STUDS W/ VERTICLIP SLB EA SIDE AT TOP AND STIFFCLIP AL EA SIDE AT BOTTOM	1 HORIZONTAL STUD 1 HORIZONTAL TRACK

NOTES:
STUDS ARE 600S162-54
TRACKS ARE 600T125-54

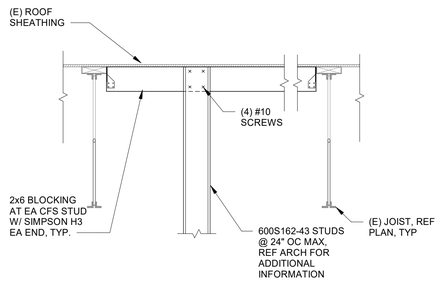
4 HEADER SCHEDULE
3/4" = 1'-0"



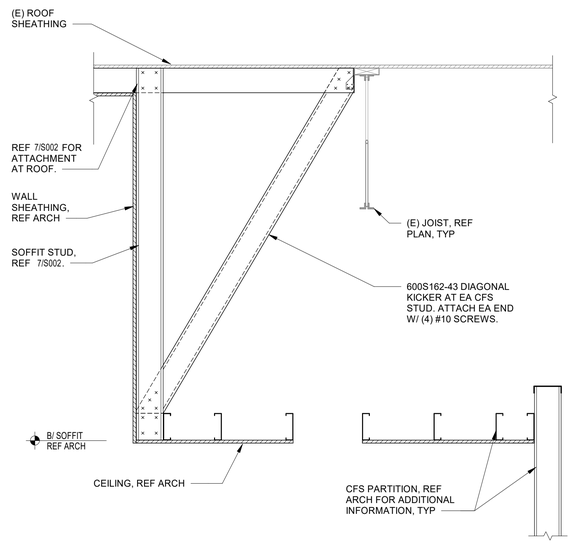
5 STUD TO TOP TRACK CONNECTION
3/4" = 1'-0"



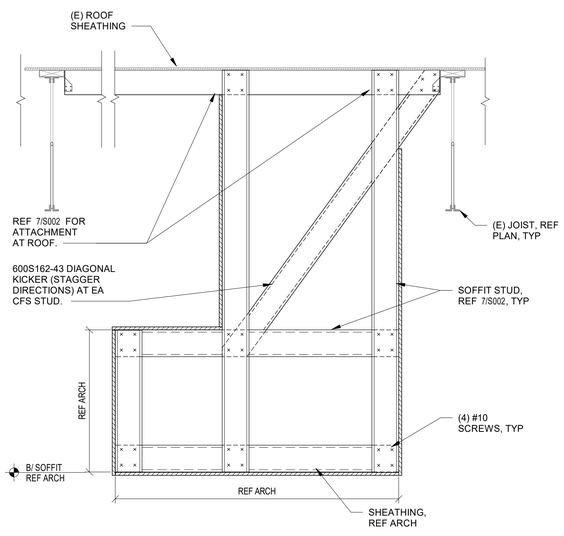
6 HEADER TO JAMB CONNECTION
3/4" = 1'-0"



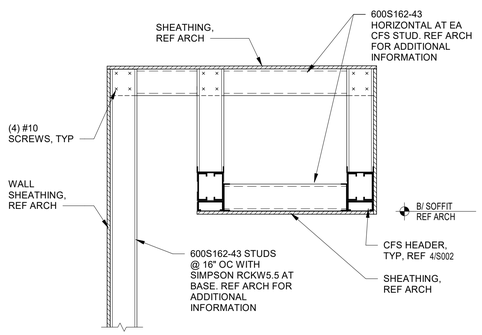
7 TYPICAL HUNG SOFFIT DETAIL
3/4" = 1'-0"



8 SECTION
3/4" = 1'-0"



9 SECTION
3/4" = 1'-0"



10 SECTION
3/4" = 1'-0"

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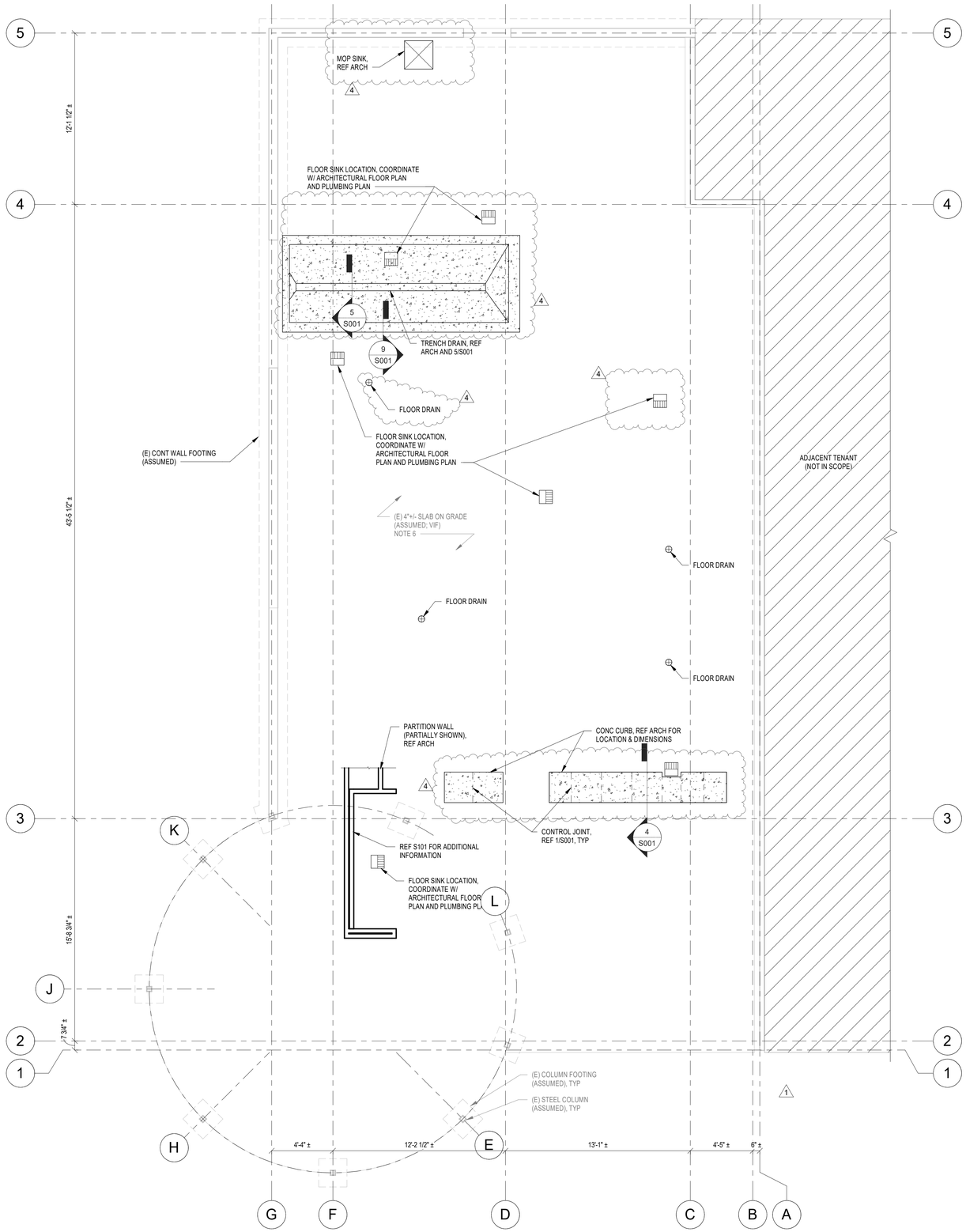
TYPICAL CFS DETAILS

S002



FOUNDATION PLAN

1/4" = 1'-0"

FOUNDATION PLAN NOTES

1. PLACE NO CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
2. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
3. VERIFY LOCATION, SIZE, AND NUMBER OF FLOOR DEPRESSIONS AND FLOOR SLOPES WITH ARCHITECTURAL AND MEP DRAWINGS.
4. REF SHEET S000 FOR GENERAL STRUCTURAL NOTES.
5. EXISTING STRUCTURAL INFORMATION SHOWN IS BASED UPON PARTIAL RECORD STRUCTURAL DRAWINGS BY A.V. SCHWAN & ASSOCIATES, CONSULTING ENGINEERS, DATED DECEMBER 07, 2023. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF NEW MATERIAL. FIELD VERIFY AND CONTACT ENGINEER WITH DISCREPANCIES PRIOR TO FABRICATION OF NEW MATERIAL.
6. EXISTING CONCRETE SLAB TO REMAIN. SCAN ALL AREAS FOR BURIED CONDUIT PRIOR TO BEGINNING OF DEMOLITION.

FOUNDATION PLAN LEGEND

(E)	DENOTES EXISTING BUILDING ELEMENT, FIELD VERIFY
±	DENOTES APPROXIMATE DIMENSION, FIELD VERIFY
VIF	DENOTES VERIFY IN FIELD

NOTE REGARDING EXISTING CONSTRUCTION

THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS.

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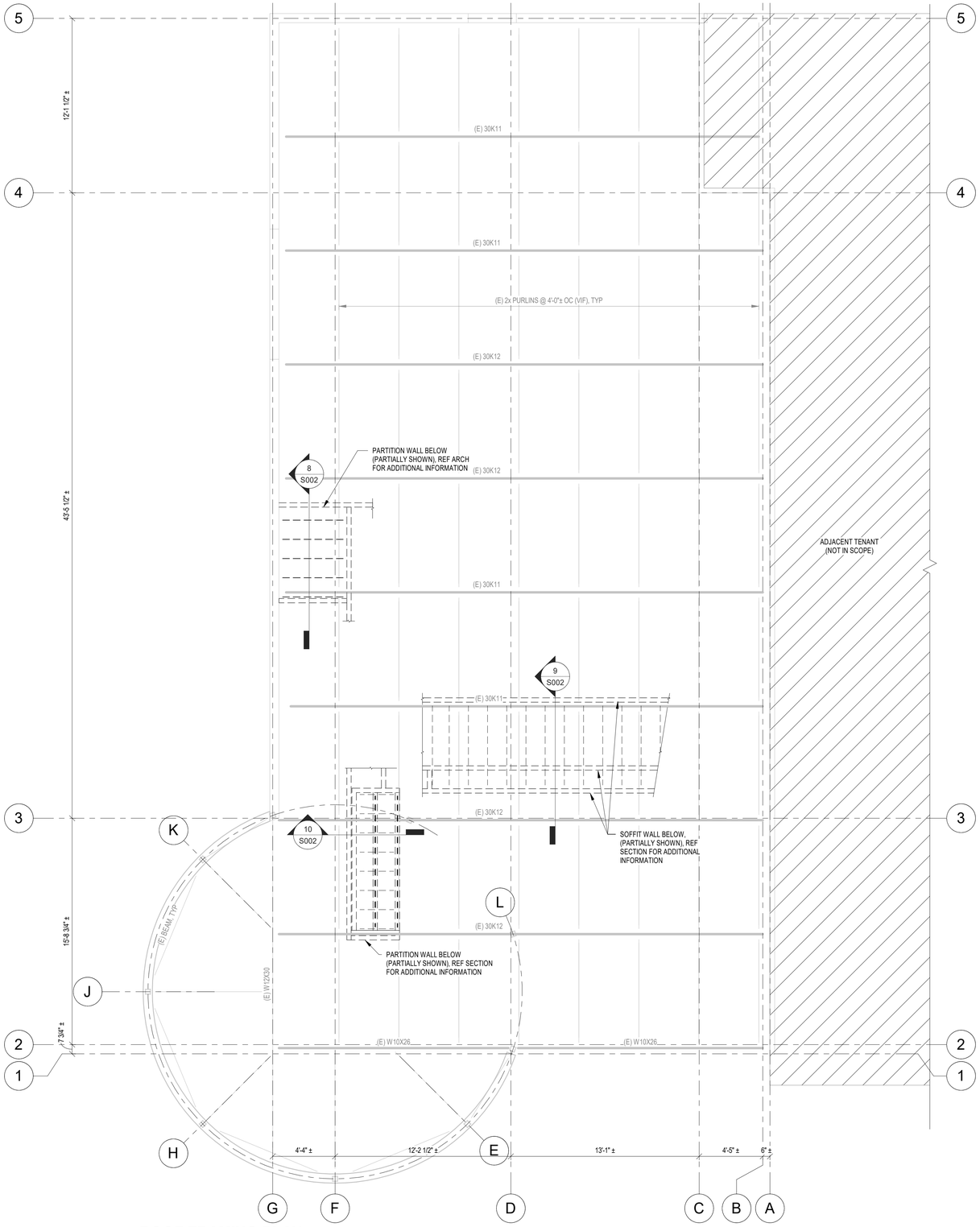
FOUNDATION PLAN

S100



ROOF FRAMING PLAN

1/4" = 1'-0"

ROOF FRAMING PLAN NOTES

1. EXISTING STRUCTURAL INFORMATION SHOWN IS BASED UPON PARTIAL RECORD STRUCTURAL DRAWINGS BY A. V. SCHWAN & ASSOCIATES, CONSULTING ENGINEERS, DATED DECEMBER 07, 2023. FIELD VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS PRIOR TO FABRICATION OF NEW MATERIAL. FIELD VERIFY AND CONTACT ENGINEER WITH DISCREPANCIES PRIOR TO FABRICATION OF NEW MATERIAL.

ROOF FRAMING PLAN LEGEND

(E)	DENOTES EXISTING BUILDING ELEMENT, FIELD VERIFY
(VIF)	DENOTES VERIFY IN FIELD
±	DENOTES APPROXIMATE DIMENSION, FIELD VERIFY

NOTE REGARDING EXISTING CONSTRUCTION

THE CONTRACTOR SHALL VERIFY THAT ALL STRUCTURAL COMPONENTS SHOWN ON THESE DRAWINGS ARE ACCURATE IN REPRESENTING WHAT IS CURRENTLY BUILT. THE CONTRACTOR SHALL NOTIFY THE STRUCTURAL ENGINEER OF RECORD IF ANY AS-BUILT CONDITION DIFFERS FROM WHAT IS DEPICTED ON THESE DOCUMENTS.

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Contents:
ROOF FRAMING PLAN

S101

BUILDING CODE DATA

	CODE	
GENERAL	CALIFORNIA BUILDING CODE	2022
HVAC/MECHANICAL	CALIFORNIA MECHANICAL CODE	2022
PLUMBING	CALIFORNIA PLUMBING CODE	2022
ELECTRICAL	CALIFORNIA ELECTRICAL CODE	2022
FIRE PROTECTION	CALIFORNIA FIRE CODE	2022
	NFPA STANDARDS	CURRENT
FUEL	CALIFORNIA PLUMBING CODE	2022
ENERGY	CALIFORNIA ENERGY CODE	2022
LOCAL AMENDMENTS	TITLE 8 BUILDING REGULATIONS - AMENDMENTS	CURRENT

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

PROJECT DESCRIPTION

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

SECTION 15732 - PACKAGED ROOFTOP AIR-CONDITIONING UNITS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data and Shop Drawings.
B. Comply with ASHRAE 15.
C. EER: Equal to or greater than prescribed by the energy code adopted by the Authority Having Jurisdiction.
D. Warranties: Submit a written warranty, signed by the manufacturer, agreeing to the repair or replacement of components that fail within 5 years of Substantial Completion.
PART 2 - PRODUCTS
2.1 PACKAGED UNITS, 5 TO 20 TONS
A. Factory assembled and tested, consisting of compressors, condensers, evaporator coils, condenser and evaporator fans, refrigeration and temperature controls, filters, and dampers.
1. Refer to Rooftop Heating/Cooling Unit Schedule on drawing M600 for capacities, and manufacturers.
2. Evaporator Fans: Belt or direct driven, forward curved centrifugal.
3. Exhaust/Relief Fans: Direct drive, forward curved centrifugal or propeller.
4. Condenser Fans: Direct drive propeller.
5. Refrigerant Coils: Aluminum fins and copper coil.
6. Compressors: Serviceable hermetic or fully hermetic, with safety controls, hot gas bypass, and timed off controls.
7. Heat Exchangers: Gas fired, with gas controls, electronic ignition, high limit cutout, and forced draft proving switch.
8. Economizer controls (Comparative Enthalpy, 100% capacity).
9. Smoke Detectors: Photoelectric in supply and/or return as called for in schedule on sheet M600.
10. Operating Controls: Two stage heating and two stage cooling on units 7-1/2 tons and over.
11. Roof curb.
12. Control Wiring from T-stat to rooftop unit: Shall be 18ga / 7 conductor, rated for plenum applications.
13. Control Wiring from T-stat to remote sensor: Shall be a separate 18ga / 2 conductor shielded, rated for plenum applications.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install units level and plumb and firmly anchored.
B. Connect gas piping to burner with pipe same size as gas train inlet, and provide union with sufficient clearance for burner removal and service.
C. Install ducts to termination in roof mounting frames. Terminate ducts through roof structure.
D. Connect units to wiring systems and to ground.
END OF SECTION 15732

SECTION 15810 - DUCTS AND ACCESSORIES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: Product Data for fire and smoke dampers.
B. Comply with NFPA 90A for systems serving spaces more than 25,000 cu. ft. in volume or building Types II, IV, and V construction more than 3 stories in height.
C. Comply with NFPA 90B for systems serving spaces in 1 or 2 family dwellings or serving spaces less than 25,000 cu. ft..
D. Comply with NFPA 96, "Ventilation Control and Fire Protection of Commercial Cooking Operations," for kitchen hood ducts.
E. Comply with UL 181 and UL 181A for ducts and closures.
F. Testing, Adjusting, and Balancing Agency Qualifications: AABC certified (to be furnished by Tenant).
PART 2 - PRODUCTS
2.1 DUCTS
A. Spiral Duct: Spiral Lock Seam, without insulation, G90 galvanized finish, ASTM A-653/924
1. Basis of Design Manufacturers: Lindab SPIROsafe, alternates to the basis of design must be submitted for review.
2. Fittings: Factory produced standing seam construction with internal sealing. Fittings with a major axis of 36" or smaller shall be 20 gauge. Fittings with a major axis of 37"-48" shall be 18 gauge.
B. Galvanized Steel Sheet: Forming steel, ASTM A 653/653M, G90 coating designation.
C. Duct Liner: ASTM C 1071, Type II, with an airstream surface coated with a temperature resistant coating. Thickness: 1-1/2 inch. R-value : 8.
1. Adhesive: ASTM C 916, Type I.
2. Mechanical Fasteners: Galvanized steel pin, length as required to penetrate liner plus a 1/8 inch projection maximum into the airstream.
D. Joint and Seam Tape: Comply with UL 181A.
E. Joint and Seam Sealant: Comply with UL 181A.
F. Rectangular Metal Duct Fabrication: Comply with SMACNA's "HVAC Duct Construction Standard" for metal thickness, reinforcing types and intervals, tie rod applications, and joint types and intervals.
2.2 ACCESSORIES
A. Volume-Control Dampers: Factory fabricated volume control dampers, complete with required hardware and accessories. Single blade and multiple opposed blade, standard leakage rating, and suitable for horizontal or vertical applications.
B. Fire Dampers: Factory-fabricated fire dampers, complete with required hardware and accessories. UL labeled according to UL 555, "Fire Dampers".
C. Flexible Connectors: Flame retardant or noncombustible fabrics, coatings, and adhesives complying with UL 181, Class 1.
D. Flexible Ducts: Factory fabricated, insulated, round duct, with an outer jacket enclosing 2 inch thick, glass fiber insulation, R-value: 6.0, around a continuous inner liner.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Duct System Pressure Class: Construct and install each duct system with 2 inch positive and negative duct pressure classifications.
B. Conceal ducts from view in finished and occupied spaces. Except where noted as exposed.
C. Avoid passing through electrical equipment spaces and enclosures.
D. Support and connect metal ducts according to SMACNA's "HVAC Duct Construction Standard".
E. Install duct accessories according to applicable portions of details of construction as shown in SMACNA standards.
F. Install liner and/or insulation on ductwork per the material schedule on sheet M010.
G. Install volume control dampers in lined duct with methods to avoid damage to liner and to avoid erosion of duct liner.
H. Install fire and smoke dampers according to manufacturer's UL approved written instructions.
I. Install fusible links in fire dampers.
J. Provide saddle taps at tees for exposed ductwork.
3.2 TESTING, ADJUSTING, AND BALANCING
A. The Tenant will supply an independent balance agent to to balance and adjust the HVAC installation. The balance agent will be responsible for any pulley or belt changes required.
B. The GC is to have trained staffed available during the balancing to correct issues noted by the balance agent.
C. The balance agent is to balance airflow within distribution systems, including submains, branches, and terminals to indicated quantities +/- 10%. The hood exhaust system shall be balanced to a tolerance of -0+10% and the make-up air system to a tolerance of -10+0%.
D. The balance agent is to supply a copy of the balance report to the Tenant, engineer and general contractor for review.
END OF SECTION 15810

SECTION 15855 - DIFFUSERS, REGISTERS, AND GRILLES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 OUTLETS AND INLETS
A. All air terminal devices:
1. Refer to Grills, Registers, and Diffusers Schedule for equipment schedule
2. Manufacturer: As scheduled (NO SUBSTITUTIONS)
3. Material: As scheduled.
4. Finish: As scheduled.
5. Mounting: As scheduled.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Coordinate location and installation with duct installation and installation of other ceiling and wall mounted items.
B. Locate ceiling diffusers, registers, and grilles, as indicated on the architectural "reflected ceiling plans." Unless otherwise indicated, locate units in center of acoustical ceiling panels.
END OF SECTION 15855

HVAC GENERAL NOTES

A GENERAL NOTES APPLY TO HVAC SHEETS.
B WORK SHALL COMPLY WITH STATE AND LOCAL CODE REQUIREMENTS AS APPROVED AND AMENDED BY THE AUTHORITY HAVING JURISDICTION, INCLUDING APPLICABLE SECTIONS OF NFPA, THE MECHANICAL CODE, AND ANY INTERIM AMENDMENTS AT THE TIME OF THE PROPOSAL. PURCHASE PERMITS ASSOCIATED WITH THE WORK. OBTAIN INSPECTIONS REQUIRED BY CODE. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C CONTRACTOR AND SUBCONTRACTORS SHALL REVIEW A COMPLETE SET OF THE CONSTRUCTION DOCUMENTS.
D COORDINATE WORK WITH THE WORK OF OTHER TRADES, EQUIPMENT FURNISHED BY OTHERS, REQUIREMENTS OF THE OWNER, AND OF THE EXISTING CONDITIONS AT THE PROJECT SITE.
E DRAWINGS FOR THE MECHANICAL WORK ARE DIAGRAMMATIC, SHOWING THE GENERAL LOCATION, TYPE, LAYOUT, AND EQUIPMENT REQUIRED. THE DRAWING SHALL NOT BE SCALED FOR EXACT MEASUREMENTS, REFER TO ARCHITECTURAL DRAWINGS FOR DIMENSIONS. REFER TO MANUFACTURER'S STANDARD INSTALLATION DRAWINGS FOR EQUIPMENT CONNECTIONS AND INSTALLATION REQUIREMENTS. PROVIDE DUCTWORK, CONNECTIONS, OFFSETS, ACCESSORIES, AND MATERIALS NECESSARY FOR A COMPLETE SYSTEM.
F DUCT DIMENSIONS ON PLANS INDICATE DIMENSIONS OF INTERNAL FREE AREA.
G PERFORATED CEILING DIFFUSERS SHALL BE 4-WAY UNLESS NOTED OTHERWISE.
H COORDINATE ROOF WORK WITH THE OWNER'S CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION.
I UNLESS NOTED OTHERWISE RECTANGULAR DUCT ELBOWS GREATER THAN 45° SHALL BE MITERED ELBOWS WITH DOUBLE-THICKNESS TURNING VANES AND RECTANGULAR DUCT ELBOWS 45° OR LESS SHALL BE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF AT LEAST 1/2 THE WIDTH OF THE DUCT.
J REPLACE AIR FILTERS WITH NEW, CLEAN MERV 13 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

	APPLICATION	ALLOWABLE MATERIAL
DUCT		
	CONCEALED, GENERAL EXHAUST	RECT. OR ROUND AS SHOWN
	CONCEALED, RETURN	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, SUPPLY	RECT. OR ROUND AS SHOWN, LINED OR INSULATED
	CONCEALED, TYPE I HOOD EXHAUST	RECTANGULAR 16 GA. BLACK IRON W/ WRAP OR UL 1978 FACTORY-MANUFACTURED DUCT W/ WRAP (SUBMIT SHOP DRAWINGS FOR FACTORY-MANUFACTURED DUCT PRIOR TO ORDERING FOR APPROVAL)
	EXPOSED GENERAL EXHAUST	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED RETURN	RECTANGULAR, NO EXPOSED DUCT-SEALING MASTIC
	EXPOSED SUPPLY	RECT. LINED OR ROUND AS SHOWN, NO EXPOSED DUCT-SEALING MASTIC

HVAC ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GYP	GYPSUM BOARD
NTS	NOT TO SCALE
O/H	OVERHEAD
OBD	OPPOSED BLADE DAMPER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
VSC	VARIABLE SPEED CONTROLLER
W/	WITH
WIC	WALK-IN COOLER
C02AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

HVAC SYMBOLS

CEILING DIFFUSER
CEILING-MOUNTED RETURN OR EXHAUST REGISTER
SUPPLY REGISTER
RETURN GRILLE
FLEXIBLE DUCT
MITERED CORNER WITH TURNING VANES
DUCTWORK INTERNAL FREE DIMENSIONS (WIDTH/HEIGHT) RECTANGULAR TO ROUND DUCT TRANSITION
DUCT-MOUNTED SMOKE DETECTOR
MOTOR-OPERATED DAMPER
MANUAL VOLUME DAMPER
GREASE DUCT CLEANOUT
MITERED CORNER WITHOUT TURNING VANES
GRIDPOINT THERMOSTAT
GRIDPOINT ZONE SENSOR MODULE
GRIDPOINT SUPPLY PROBE
PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
CONNECT TO EXISTING
EQUIPMENT TAG: SEE EQUIPMENT SCHEDULE ON SHEET M600 FOR EQUIPMENT INFORMATION
AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET
GRILL, REGISTER, OR DIFFUSER TAG: TAG, NECK SIZE, AIRFLOW [CFM]

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Project No.
230426

Contents:
HVAC SPECIFICATIONS

M010

CERTIFICATE OF COMPLIANCE		NRCC-MCH-E
This document is used to demonstrate compliance for mechanical systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, or 141.0(b)2 for alterations.		
Project Name: CMG Richmond Pkwy	**Report Page:**	**(Page 1 of 9)**
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A. GENERAL INFORMATION

01	Project Location (city)	Richmond, CA	04	Total Conditioned Floor Area	2587
02	Climate Zone	3	05	Total Unconditioned Floor Area	0
03	Occupancy Types Within Project:		06	# of Stories (Habitable Above Grade)	1

● Restaurant

B. PROJECT SCOPE

This table Includes mechanical systems or components that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.4, 170.2(b) or 141.0(b)2 and 180.2(b)2 for alterations.

01 Air System(s)	02 Wet System Components	03 Dry System Components
☒ Heating Air System	☐ Water Economizer	☒ Air Economizer
☒ Cooling Air System	☐ Pumps	☐ Electric Resistance Heat
Mechanical Controls	☐ System Piping	☐ Fan Systems
☒ Mechanical Controls (existing to remain, altered or new)	☐ Cooling Towers	☒ Ductwork (existing to remain, altered or new)
	☐ Chillers	☒ Ventilation
	☐ Boilers	☐ Zonal Systems/ Terminal Boxes

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C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with mechanical requirements. This table is not editable by the user. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D., or the table indicated as not compliant for guidance.

01		02		03		04		05		06		07		08	09
System Summary 110.1, 110.2, 140.4, 170.2(c)	AND	Pumps 140.4(k), 170.2(c)4I	AND	Fans/ Economizers 140.4(c), 140.4(e), 170.2(c)	AND	System Controls 110.2, 120.2, 140.4(f), 170.2(c)	AND	Ventilation 120.1, 160.2	AND	Terminal Box Controls 140.4(d), 170.2(c)4B	AND	Distribution 120.3, 140.4(l), 160.2, 160.3	AND	Cooling Towers 110.2(e)2	Compliance Results
(See Table F)		(See Table G)		(See Table H)		(See Table I)		(See Table J)		(See Table K)		(See Table L)		(See Table M)	
Yes	AND		AND	Yes	AND	Yes	AND	Yes	AND		AND	Yes	AND		COMPLIES with Exceptional Conditions
Mandatory Measures Compliance (See Table Q for Details)												COMPLIES			

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

The permit applicant has indicated on Table J that ventilation calculations have been attached or included elsewhere on the plans.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Space Conditioning System Information

01 System Name	02 Quantity	03 System Serving	04 System Status	05 Space Type	06 Utilizing Recovered Heat
RTU-#	2	Single zone	New/ Addition	Retail	☐

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F. HVAC SYSTEM SUMMARY (DRY & WET SYSTEMS)

Dry System Equipment Sizing (includes air conditioners, condensers, heat pumps, VRF, furnaces and unit heaters and DOAS systems)

01	02	03	04	05	06	07	08	09	10	11
				Equipment Sizing per Mechanical Schedule (kBtu/h) 140.4(a&b), 170.2(c)1 & 170.2(c)2						
				Heating Output[2,3]			Cooling Output[2,3]		Load Calculations[3,4]	
Name or Item Tag	Equipment Category per Tables 110.2, 140.4(a)2 and 170.2(c)3aii	Equipment Type per Tables 110.2 and Title 20	Smallest Size Available[1] 140.4(a) and 170.2(c)1	Per Design (kBtu/h)	Rated (kBtu/h)	Supp. Heating Output (kBtu/h)	Sensible Per Design (kBtu/h)	Rated (kBtu/h)	Total Heating Load (kBtu/h)	Total Sensible Cooling Load (kBtu/h)
RTU-#	Furnace + AC	AC, air cooled, single pkg + warm-air central furnace, gas-fired	Yes	179,200	179,200	0	84,150	90,530	48624	65,844

[1]FOOTNOTES: Equipment shall be the smallest size, within the available options of the desired equipment line, necessary to meet the design heating and cooling loads of the building per 140.4(a) and 170.2(c)1. Healthcare facilities are excepted.
[2]It is common practice to show rated output capacity on the equipment schedule. Sensible cooling output comes from specification sheet tables.
[3] If equipment is heating only, leave cooling output and load blank. If equipment is cooling only, leave heating output and load blank.
[4] Authority Having Jurisdiction may ask for load calculations used for compliance per 140.4(b) and 170.2(c).

Dry System Equipment Efficiency (other than Package Terminal Air Conditioners (PTAC) and Package Terminal Heat Pumps (PTHP), DX-DOAS and Dual Fuel Heat Pumps)

01	02	03	04	05	06	07	08	09
		Heating Mode				Cooling Mode		
Name or Item Tag	Size Category (Btu/h)	Rating Condition (°F)	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency	Efficiency Unit	Minimum Efficiency Required per Tables 110.2 / Title 20	Design Efficiency
RTU-#	>=65kBtuh cooling/ <225kBtuh heating		AFUE	0.8	0.8	EER IEER	11 14.6	11.2 15.2

G. PUMPS

This section does not apply to this project.

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H. FAN SYSTEMS & AIR ECONOMIZERS

This table is used to demonstrate compliance with prescriptive requirements found in 140.4(c), 140.4(e), 140.4(m), 170.2(c)3, and 170.2(c)4A for fan systems. Fan systems serving only process loads are exempt from these requirements and do not need to be included in Table H.

System Name	RTU-1/2	Quantity	1	Fan System Status	New	System Zoning	all other systems	Serving Dwelling Units	Not Serving Dwelling Units	Fan System Airflow (cfm)	6,800	Site Elevation	55	Economizer	Differential Enthalpy
01	02	03	04			05		06	07	08	09			10	11

Fan Name or Item Tag	Fan Type	Qty	Component	Airflow through Component (%)	Water Gauge (w.g)	Allowance: Component Allowance	Allowance: Fan Allowance (watt/cfm)[3]	Design: Design Electrical Input Power Method	Design: Motor Nameplate Horsepower	Design: Design Electrical Input Power (kW)
RTU-1/2	Supply	1	Air Blender	100		0.04	0.04	Default per Table 140.4-D Variable Speed Drive	>=1.5 and <2	1.84
Supply Fan Base Allowance (kW)		0.256	Exhaust/Return/Relief/Transfer Fan Base Allowance(kW)		0	Fan System Allowance (kW)[3]		2.01	Fan System Electrical Output (kW)	1.84

[1] FOOTNOTES: Fans serving spaces with design background noise goals below NC35
[2] Low-turndown single-zone VAV fan system must be capable of and configured to reduce airflow to 50 percent of design airflow and use no more than 30 percent of the design wattage at that airflow. No more than 10 percent of the design load served by the equipment shall have fixed loads.
[3] Fan system allowance includes fan system base allowance.
[4] Filter pressure loss can only be counted once per fan system.
[5] Complex Fan System means a fan system that combines a single cabinet fan system with other supply fans, exhaust fans, or both.
[6] Computer room economizers must meet requirements of 140.9(a) and will be documented on the NRCC-PRC-E document..

Fan Energy Index (FEI)

01 Name or Item Tag	02 FEI Exception	03 FEI

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I. SYSTEM CONTROLS

This table is used to demonstrate compliance with mandatory controls in 110.2 and 120.2 and prescriptive controls in 140.4(f) and (n), 170.2(c)4D 170.2(c)4L or requirements in 141.0(b)2E 180.2(b)2 for altered space conditioning systems.

01 System Name	02 System Zoning	03 Conditioned Floor Area Being Served (ft^2)	04 Thermostats 110.2(b) & (c)[1], 120.2(a) 160.3(a)2A or 141.0(b)2E & 180.2(b)2	05 Shut-Off Controls 120.2(e) & 160.3(a)2D	06 Isolation Zone Controls 120.2(g) & 160.3(a)2F	07 Demand Response 110.12 120.2(b) & 160.3(a)2B	08 Supply Air Temp. Reset 140.4(f) & 170.2(c)4D	09 Window Interlocks per 140.4(n) & 170.2(c)4D
RTU-1	Single zone	<= 25,000 ft^2	Setback	Auto Timer Switch	Auto Timer Switch	DR Tstat per 110.12	Included	Provided

[1]FOOTNOTES: Gravity gas wall heaters, gravity floor heaters, gravity room heaters, non-central electric heaters, fireplaces or decorative gas appliances, wood stoves are not required to have setback thermostats.

J. VENTILATION AND INDOOR AIR QUALITY

This table is used to demonstrate compliance with mandatory ventilation requirements in 120.1 120.2(e)3B 140.4(p) and 140.4(q) for all nonresidential and hotel/motel and d:t24refnolink/)160.2, 160.3(a)3D, 170.2(a)4N, 170.2(a)4O for high-rise residential occupancies. For alterations, only ventilation systems being altered within the scope of the permit application need to be documented in this table. In lieu of this table, the required outdoor ventilation rates and airflows may be shown on the plans or the calculations can be presented in a spreadsheet.

01	☒	Check the box if the project is showing ventilation calculations on the plans, or attaching the calculations instead of completing this table.
02	☐	Check this box if the project included Nonresidential, Hotel/Motel Spaces or Multifamily Common Use Spaces
03	☐	Check the box if the project is using natural ventilation in any nonresidential or hotel/motel spaces to meet required ventilation rates per 120.1(c)2.

K. TERMINAL BOX CONTROLS

This section does not apply to this project.

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L. DISTRIBUTION (DUCTWork and PIPING)

This table is used to show compliance with mandatory pipe insulation requirements found in 120.3 and mandatory requirements found in 120.4(g) for duct sealing.

01	☐	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service. Insulation covering chilled water piping and refrigerant suction piping located outside the conditioned space shall have a Class I or Class II vapor retarder. All penetrations and joints of which shall be sealed.

Duct Leakage Testing

The answers to the questions below apply to the following duct systems:	Supply and return ducting for RTU-1 and RTU-2	**NR/ Common Use:** Duct leakage testing shall not exceed 6% per NA7.5.3 required for these systems?	No
		Dwelling Units: Total duct leakage of duct system shall not exceed 12% or duct system to outside shall not exceed 6% per RA3.1.4 required for systems?	---
		Duct leakage testing per CMC Section 603.10.1 required for these systems?	Yes

11	No	The scope of the project includes only duct systems serving healthcare facilities
12	Yes	Duct system provides conditioned air to an occupiable space for a constant volume, single zone, space-conditioning system.
13	Yes	The space conditioning system serves less than 5,000 ft^2 of conditioned floor area.
14	No	The combined surface area of the ducts is more than 25% of the total surface area of the entire duct system:
15	No	The scope of the project includes extending an existing duct system, which is constructed, insulated or sealed with asbestos.
16	No	The scope of the project includes an existing duct system that is documented to have been previously sealed as confirmed through field verification and diagnostic testing in accordance with procedures in the Reference Nonresidential Appendix NA2.
17	Yes	All Ductwork and plenums with pressure class ratings shall be constructed to Seal Class A
18	No	All ductwork is an extension of an existing duct system
19	No	Ductwork serving individual dwelling unit
20		< 25 ft of new or replacement space conditioning ducts installed
21	R-8	Duct Insulation R-value
22	No	Ductwork Existing To Remain
23	No	Duct System Connected To Altered Space Conditioning System

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M. COOLING TOWERS

This section does not apply to this project.

N. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/programs-and-topics/programs/building-energy-efficiency-standards/2022-building-energy-efficiency-4

Form/Title
NRCI-MCH-01-E - Must be submitted for all buildings

O. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRCA/

Form/Title	Systems/Spaces To Be Field Verified
NRCA-MCH-02-A - Outdoor Air must be submitted for all newly installed HVAC units. Note: MCH-02-A can be performed in conjunction with MCH-07-A Supply Fan VFD Acceptance (if applicable) since testing activities overlap.	
NRCA-MCH-05-A - Air Economizer Controls	RTU-1/2
NRCA-MCH-13-A Automatic FDD for Air Handling Units and Zone Terminal Units Acceptance	RTU-#
NRCA-MCH-16-A Supply Air Temperature Reset Controls	RTU-1

P. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no NRCV forms required for this project.

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Q. MANDATORY MEASURES DOCUMENTATION LOCATION

This table is used to indicate where mandatory measures are documented in the plan set or construction documentation.

01		02
Compliance with Mandatory Measures documented through MCH Mandatory Measures Note Block	Yes	Plan sheet or construction document location m002

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Project Address:	**Date Prepared:**	2024-03-01T10:55:17-05:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Sam Frank	
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Sam Frank	
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

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Project No.
230426

Contents:
TITLE 24 FORMS

M011

Space Conditioning Mandatory Measures:

110.2 CERTIFICATION BY MANUFACTURERS
ANY SPACE CONDITIONING EQUIPMENT LISTED IN §110.2 SHALL ONLY BE INSTALLED IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE §110.2 REQUIREMENTS.

110.2(a) SPACE CONDITIONING EQUIPMENT EFFICIENCY
EQUIPMENT SHALL MEET APPLICABLE EFFICIENCY REQUIREMENTS IN TABLE 110.2-A THROUGH TABLE 110.2-N.

110.2(c) SETBACK THERMOSTATS
ALL HEATING OR COOLING SYSTEMS NOT CONTROLLED BY A CENTRAL ENERGY MANAGEMENT CONTROL SYSTEM (EMCS) SHALL HAVE A SETBACK THERMOSTAT WITH CLOCK MECHANISM THAT ALLOWS THE BUILDING OCCUPANT TO PROGRAM THE TEMPERATURE SETPOINTS FOR AT LEAST FOUR PERIODS WITHIN 24 HOURS.

110.5 PILOT LIGHTS PROHIBITED FOR NATURAL GAS EQUIPMENT
PILOT LIGHTS ARE PROHIBITED ON NATURAL GAS FAN-TYPE CENTRAL FURNACES, POOL HEATERS, SPA HEATERS, AND FIREPLACES.

110.8(a) INSULATION CERTIFICATION
INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."

110.8(b) UREA FORMALDEHYDE INSULATION
UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

110.8(c) INSULATING MATERIAL
ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.

110.8(d) DUCTS
IF INSULATION IS INSTALLED ON AN EXISTING SPACE-CONDITIONING DUCT, IT SHALL COMPLY WITH SECTION 604.0 OF THE CMC.

120.1(a) GENERAL VENTILATION AND INDOOR AIR QUALITY REQUIREMENTS
ALL OCCUPIABLE SPACES IN HOTEL/MOTEL AND NONRESIDENTIAL BUILDINGS OTHER THAN HEALTHCARE SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF §120.1(a) THROUGH (g). THE REQUIRED OUTDOOR AIR VENTILATION RATE AND AIR-DISTRIBUTION SYSTEM DESIGN SHALL BE CLEARLY IDENTIFIED ON THE PLANS.

120.1(c)2 NATURAL VENTILATION
NATURALLY VENTILATED SPACES SHALL BE DESIGNED IN ACCORDANCE WITH 120.1(c)2A THROUGH 120.1(c)2C AND INCLUDE A MECHANICAL VENTILATION SYSTEMS DESIGNED IN ACCORDANCE WITH 120.1(c)3.

120.1(c)3 MECHANICAL VENTILATION
OCCUPIABLE SPACES SHALL BE VENTILATED WITH A MECHANICAL VENTILATION SYSTEM CAPABLE OF PROVIDING AN OUTDOOR AIRFLOW RATE (V_{ot}) TO THE ZONE NO LESS THAN EQUATION 120.1-F.

120.1(d) TIMES OF OCCUPANCY
MINIMUM OUTDOOR AIR RATE SHALL BE MET AT TIMES WHEN THE SPACE IS USUALLY OCCUPIED IN ACCORDANCE WITH 120.1(c).

120.1(d)2 PRE-OCCUPANCY
THE LESSER OF THE MINIMUM RATE OF OUTDOOR AIR REQUIRED BY SECTION 120.1(c) OR THREE COMPLETE AIR CHANGES SHALL BE SUPPLIED TO THE ENTIRE BUILDING DURING THE 1-HOUR PERIOD IMMEDIATELY BEFORE THE BUILDING IS NORMALLY OCCUPIED.

Space Conditioning Mandatory Measures:

120.1(d)3 REQUIRED DEMAND CONTROL VENTILATION
DCV CONTROLS ARE REQUIRED FOR A SPACE WITH A DESIGN OCCUPANCY DENSITY >= 25 PEOPLE/1,000 FT2 IF THE SYSTEM SERVING THE SPACE HAS ONE OR MORE OF THE FOLLOWING
- AN AIR ECONOMIZER
- MODULATING OUTSIDE AIR CONTROL
- DESIGN OUTDOOR AIRFLOW RATE > 3,000 CFM

120.1(f) DESIGN AND CONTROL REQUIREMENTS FOR QUANTITIES OF OUTDOOR AIR
120.1(f)1 ALL MECHANICAL VENTILATION AND SPACE-CONDITIONING SYSTEMS SHALL BE DESIGNED WITH AND HAVE INSTALLED DUCTWORK, DAMPERS, AND CONTROLS TO ALLOW OA RATES TO BE OPERATED AT NO LESS THAN THE LARGER OF: 120.1(c)3 MINIMUMS OR THE RATE REQUIRED FOR MAKE-UP OF EXHAUST SYSTEMS FOR AN EXEMPT OR COVERED PROCESS, CONTROL OF ODORS, OR CONTAMINANT REMOVAL IN A SPACE.

120.1(f)3 MEASURED OA RATES OF CONSTANT VOLUME SYSTEMS SHALL BE TESTED TO CONFIRM THEIR ABILITY TO OPERATE WITHIN 10% OF THE DESIGN MINIMUM OUTSIDE AIR RATE.

120.1(g) AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS
AIR CLASSIFICATION AND RECIRCULATION LIMITATIONS OF AIR SHALL BE BASED ON TABLE 120.1-A OR TABLE 120.1-C, AND IN ACCORDANCE WITH 120.1(g)1 THROUGH 4.

120.2(a) THERMOSTAT CONTROLS
HEATING AND COOLING SUPPLY TO EACH SPACE-CONDITIONING ZONE OR DWELLING UNIT SHALL BE CONTROLLED BY AN INDIVIDUAL THERMOSTATIC CONTROL THAT RESPONDS TO TEMPERATURE IN THE ZONE AND MEETS 120.2(b) REQUIREMENTS.

120.2(b) ZONAL THERMOSTAT CONTROLS
120.2(b)4 THERMOSTATIC CONTROLS FOR ALL SINGLE ZONE AIR CONDITIONERS AND HEAT PUMPS SHALL COMPLY WITH THE REQUIREMENTS OF 110.2(c) AND 110.12(a) AND, IF EQUIPPED WITH DDC TO THE ZONE LEVEL WITH THE AUTOMATIC DEMAND SHED CONTROLS OF 110.12(b).

120.2(e)1 AUTOMATIC SHUT-OFF FOR SPACE-CONDITIONING SYSTEMS
EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH ONE OF THE FOLLOWING CONTROLS CAPABLE OF AUTOMATICALLY SHUTTING OFF THE SYSTEM DURING PERIODS OF NONUSE:
- AUTOMATIC TIME SWITCH CONTROL PER 110.9, WITH ACCESSIBLE MANUAL OVERRIDE ALLOWING SYSTEM OPERATION FOR UP TO 4 HOURS, OR
- AN OCCUPANCY SENSOR, OR
- A 4-HOUR TIMER THAT CAN BE MANUALLY OPERATED.

120.2(e)2 AUTOMATIC RESTART FOR SPACE-CONDITIONING SYSTEMS
EACH SPACE-CONDITIONING SYSTEM SHALL BE INSTALLED WITH CONTROLS THAT SHALL AUTOMATICALLY RESTART AND TEMPORARILY OPERATE THE SYSTEM AS REQUIRED TO MAINTAIN:
- 120.2(e)2A A SETBACK HEATING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL HEATING, AND
- 120.2(e)2B A SETUP COOLING THERMOSTAT SETPOINT IF THE SYSTEM PROVIDES MECHANICAL COOLING.

120.2(f) DAMPERS FOR AIR SUPPLY AND EXHAUST EQUIPMENT
OUTDOOR AIR SUPPLY AND EXHAUST EQUIPMENT SHALL BE INSTALLED WITH DAMPERS THAT AUTOMATICALLY CLOSE UPON FAN SHUTDOWN.

Space Conditioning Mandatory Measures:

120.2(g) ISOLATION AREA DEVICES
EACH SPACE-CONDITIONING SYSTEM SERVING MULTIPLE ZONES WITH A COMBINED CONDITIONED FLOOR AREA OF MORE THAN 25,000 FT2 SHALL BE DESIGNED, INSTALLED AND CONTROLLED TO SERVE ISOLATION AREAS.
- EACH ZONE, OR COMBINATION OF ZONES <25,000 FT2, SHALL BE A SEPARATE ISOLATION AREA.
- EACH ISOLATION AREA SHALL BE PROVIDED WITH ISOLATION DEVICES, SUCH AS VALVES OR DAMPERS THAT ALLOW THE SUPPLY OF HEATING OR COOLING TO BE REDUCED OR SHUT-OFF INDEPENDENTLY OF OTHER ISOLATION AREAS.
- EACH ISOLATION AREA SHALL BE CONTROLLED BY A DEVICE MEETING THE REQUIREMENTS OF 120.2(e)1.

120.2(h) AUTOMATIC DEMAND SHED CONTROLS
SHALL MEET REQUIREMENTS IN 110.12
110.12(a) DEMAND RESPONSIVE (DR) CONTROL REQUIREMENTS:
1. EITHER CERTIFIED OPENADR 2.0a, OPENADR 2.0b VIRTUAL END NODE (VEN); OR CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VIRTUAL END NODE BY AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VIRTUAL END NODE FOR THE EQUIPMENT IT CONTROLS.
2. CAPABLE OF COMMUNICATING USING WI-FI, ZIGBEE, BACNET, ETHERNET, AND/OR HARD-WIRING.
3. MAY INCORPORATE AND USE ADDITIONAL PROTOCOLS BEYOND THOSE SPECIFIED IN 110.12(a)1 AND 2.
4. SHALL CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED.
5. THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JA5)

110.12(b) NONRESIDENTIAL HVAC SYSTEMS WITH DDC TO THE ZONE LEVEL SHALL BE PROGRAMMED TO ALLOW CENTRALIZED DEMAND SHED FOR NON-CRITICAL ZONES. CONTROLS SHALL BE CAPABLE OF:
1. REMOTELY INCREASING THE OPERATING COOLING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
2. REMOTELY DECREASING THE OPERATING HEATING TEMPERATURE SETPOINTS BY 4 DEGREES OR MORE IN ALL NON-CRITICAL ZONES ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
3. REMOTELY RESETTING THE TEMPERATURES IN ALL NON-CRITICAL ZONES TO ORIGINAL OPERATING LEVELS ON SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT WITHIN AN EMCS
4. PROVIDING AN ADJUSTABLE RATE OF CHANGE FOR THE TEMPERATURE INCREASE, DECREASE, AND RESET
5. THE FOLLOWING FEATURES:
   - A. DISABLED BY AUTHORIZED FACILITY OPERATORS
   - B. MANUAL CONTROL BY AUTHORIZED FACILITY OPERATORS
   - C. UPON RECEIPT OF A DR SIGNAL, SPACE-CONDITIONING SYSTEMS SHALL CONDUCT A CENTRALIZED DEMAND SHED, AS SPECIFIED IN 110.12(b)1 AND 110.12(b)2, FOR NON-CRITICAL ZONES DURING THE DR PERIOD

Space Conditioning Mandatory Measures:

120.2(i) ECONOMIZER FAULT DETECTION AND DIAGNOSTICS (FDD)
ALL NEWLY INSTALLED AIR-COOLED PACKAGED DIRECT-EXPANSION UNITS, WITH AN AIR HANDLER MECHANICAL COOLING CAPACITY GREATER THAN 33,000 BTU/HR AND AN INSTALLED AIR ECONOMIZER SHALL INCLUDE A STAND-ALONE OR INTEGRATED FDD SYSTEM IN ACCORDANCE WITH THE FOLLOWING:
1. TEMPERATURE SENSORS SHALL BE PERMANENTLY INSTALLED TO MONITOR SYSTEM OPERATION: OUTSIDE AIR, SUPPLY AIR, AND WHEN REQUIRED FOR DIFFERENTIAL ECONOMIZER OPERATION, A RETURN AIR SENSOR.
2. TEMPERATURE SENSORS SHALL HAVE AN ACCURACY OF +/- 2 °F OVER THE RANGE OF 40 °F TO 80 °F.
3. CONTROLLER SHALL HAVE THE CAPABILITY OF DISPLAYING THE VALUE OF EACH SENSOR AND
4. PROVIDE SYSTEM STATUS BY INDICATING: FREE COOLING AVAILABLE, ECONOMIZER ENABLED, COMPRESSOR ENABLED, HEATING ENABLED (IF AVAILABLE), MIXED AIR LOW LIMIT CYCLE ACTIVE.
5. CONTROLLER SHALL ALLOW MANUAL INITIATION OF EACH OPERATING MODE SO THAT THE OPERATION OF COOLING SYSTEMS, ECONOMIZERS, FANS, AND HEATING SYSTEMS CAN BE INDEPENDENTLY TESTED AND VERIFIED.
6. FAULTS SHALL BE REPORTED IN ONE OF THE FOLLOWING WAYS:
   - REPORTED TO AN EMCS REGULARLY MONITORED BY FACILITY STAFF.
   - ANNUNCIATED LOCALLY ON ONE OR MORE ZONE THERMOSTATS, OR A DEVICE WITHIN 5 FT OF ZONE THERMOSTAT(S), CLEARLY VISIBLE, AT EYE LEVEL, AND WITH INSTRUCTIONS TO CONTACT APPROPRIATE BUILDING STAFF OR AN HVAC TECHNICIAN. IN BUILDINGS WITH MULTIPLE TENANTS, ANNUNCIATION SHALL EITHER BE WITHIN PROPERTY MANAGEMENT OFFICES OR IN A COMMON SPACE ACCESSIBLE BY THE PROPERTY OR BUILDING MANAGER
   - REPORTED TO A FAULT MANAGEMENT APPLICATION WHICH AUTOMATICALLY PROVIDES NOTIFICATION OF THE FAULT TO REMOTE HVAC SERVICE PROVIDER.
7. THE FDD SHALL DETECT: AIR TEMPERATURE SENSOR FAILURE/FAULT, FAILURE TO ECONOMIZE, ECONOMIZING WHEN NOT ADVISED, DAMPER NOT MODULATING, AND EXCESSIVE OUTDOOR AIR.
8. THE FDD SYSTEM SHALL BE CERTIFIED BY THE ENERGY COMMISSION AS MEETING REQUIREMENTS OF 120.2(i)1 THROUGH 120.2(i)7 IN ACCORDANCE WITH 110.0 AND JOINT APPENDIX JA6.3

120.2(j) DIRECT DIGITAL CONTROLS (DDC)
DDC TO THE ZONE SHALL BE PROVIDED AS SPECIFIED BY TABLE 120.2-A. THE DDC SYSTEM SHALL MEET CONTROL LOGIC REQUIREMENTS OF 120.1(D), 110.12(a) AND 110.12(b) AND BE CAPABLE OF ALL OF THE FOLLOWING:
1. MONITORING ZONE AND SYSTEM DEMAND FOR FAN PRESSURE, PUMP PRESSURE, HEATING AND COOLING
2. TRANSFERRING ZONE AND SYSTEM DEMAND INFORMATION FROM ZONES TO AIR DISTRIBUTION SYSTEM CONTROLLERS AND FROM AIR DISTRIBUTION SYSTEMS TO HEATING AND COOLING PLANT CONTROLLERS
3. AUTOMATICALLY DETECTING THE ZONES AND SYSTEMS THAT MAY BE EXCESSIVELY DRIVING THE RESET LOGIC AND GENERATE AN ALARM OR OTHER INDICATION TO THE SYSTEM OPERATOR
4. READILY ALLOW OPERATOR REMOVAL OF ZONE(S) FROM THE RESET ALGORITHM
5. FOR NEW BUILDINGS, TRENDING AND GRAPHICALLY DISPLAYING INPUT AND OUTPUT POINTS
6. RESETTING HEATING AND COOLING SETPOINTS IN ALL NON-CRITICAL ZONES UPON RECEIPT OF A SIGNAL FROM A CENTRALIZED CONTACT OR SOFTWARE POINT AS DESCRIBED IN 110.12(b).

Space Conditioning Mandatory Measures:

120.2(k) OPTIMUM START/STOP CONTROLS
SPACE-CONDITIONING SYSTEMS WITH DDC TO THE ZONE SHALL HAVE OPTIMUM START/STOP CONTROLS. CONTROL ALGORITHM SHALL, AS A MINIMUM, BE A FUNCTION OF THE DIFFERENCE BETWEEN SPACE TEMPERATURE AND OCCUPIED SETPOINT, OUTDOOR AIR TEMP, AND AMOUNT OF TIME PRIOR TO SCHEDULED OCCUPANCY.

MASS RADIANT FLOOR SLAB SYSTEMS SHALL INCORPORATE FLOOR TEMPERATURE ONTO THE OPTIMUM START ALGORITHM.

120.4 AIR DISTRIBUTION SYSTEM DUCTS AND PLENUMS
PORTIONS OF SUPPLY- AND RETURN-AIR DUCTS CONVEYING HEATED OR COOLED AIR LOCATED IN ONE OR MORE OF THE FOLLOWING SPACES SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-8:
- OUTDOORS
- IN A SPACE BETWEEN THE ROOF AND AN INSULATING CEILING
- IN A SPACE DIRECTLY UNDER A ROOF WITH FIXED VENTS OR OPENINGS TO THE OUTSIDE OR UNCONDITIONED SPACES
- UNCONDITIONED SPACES, SUCH AS UNCONDITIONED CRAWLSPACE

PORTIONS OF SUPPLY-AIR DUCTS THAT ARE NOT IN ONE OF THESE SPACES, INCLUDING DUCTS BURIED IN CONCRETE SLAB, SHALL BE INSULATED TO A MINIMUM INSTALLED LEVEL OF R-4.2 (OR ANY HIGHER LEVEL REQUIRED BY CMC 605.0), OR BE ENCLOSED IN DIRECTLY CONDITIONED SPACE.

Space Conditioning Mandatory Measures:

120.4(b) DUCT AND PLENUM MATERIALS
120.4(b) FACTORY-FABRICATED DUCT SYSTEMS MUST:
- COMPLY WITH UL 181 FOR DUCTS AND CLOSURE SYSTEMS AND BE LABELED AS COMPLYING WITH UL 181
- ALL PRESSURE SENSITIVE TAPES, HEAT ACTIVATED TAPES, AND MASTICS USED IN MANUFACTURE OF RIGID FIBERGLASS DUCTS SHALL COMPLY WITH UL 181 AND UL 181A
- ALL PRESSURE SENSITIVE TAPES, AND MASTICS USED IN MANUFACTURE OF FLEXIBLE DUCTS SHALL COMPLY WITH UL 181 AND L 181B
- JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.

FIELD-FABRICATED DUCT SYSTEMS:
- FACTORY-MADE RIGID FIBERGLASS AND FLEXIBLE DUCTS FOR FIELD-FABRICATED DUCT SYSTEMS SHALL COMPLY WITH UL 181. ALL CLOSURE SYSTEMS, INCLUDING PRESSURE SENSITIVE TAPES, MASTICS, AND AEROSOL SEALANTS, SHALL MEET THE APPLICABLE REQUIREMENTS OF UL 181, UL 181A AND UL 181B.
- MASTIC SEALANTS SHALL:
  - COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B AND BE NONTOXIC AND WATER RESISTANT.
  - PASS ASTM C731 AND D2202, IF USED IN BUILDING INTERIOR,
  - PASS ASTM C731, C732, AND D2202, IF USED ON EXTERIOR.
  - SEALANTS AND MESHES SHALL BE RATED FOR EXTERIOR USE.
- PRESSURE SENSITIVE TAPES SHALL COMPLY WITH APPLICABLE REQUIREMENTS IN UL 181, UL 181A, AND UL 181B.
- JOINTS AND SEAMS SHALL NOT BE SEALED WITH CLOTH BACK RUBBER ADHESIVE DUCT TAPES UNLESS COMBINED WITH MASTICS AND DRAWBANDS.
- DRAWBANDS USED WITH FLEXIBLE DUCTS SHALL:
  - BE EITHER STAINLESS STEEL WORM-DRIVE HOSE CLAMPS OR UV-RESISTANT NYLON DUCT TIES
  - HAVE A MINIMUM TENSILE STRENGTH RATING OF 150 LBS.
  - BE TIGHTENED AS RECOMMENDED BY THE MANUFACTURER
- AEROSOL SEALANT CLOSURES SHALL:
  - MEET REQUIREMENTS OF UL 723 AND BE APPLIED ACCORDING TO MANUFACTURER SPECIFICATIONS
  - TAPES OR MASTICS USED IN COMBINATION WITH AEROSOL SEALING SHALL COMPLY WITH APPLICABLE REQUIREMENTS OF UL 181, UL 181A, AND UL 181B, ASTM C731, C732 AND D2202.

120.4(c)
ALL DUCT INSULATION PRODUCT R-VALUES SHALL BE BASED ON INSULATION ONLY AND TESTED IN ACCORDANCE WITH ASTM C518 OR ASTM C177 AND CERTIFIED PER §110.8.

120.4(d)
INSTALLED THICKNESS OF DUCT INSULATION USED TO DETERMINE ITS R-VALUE SHALL BE DETERMINED AS FOLLOWS:
- DUCT BOARD, LINER, AND FACTORY-MADE RIGIDS: USE NOMINAL INSULATION THICKNESS
- DUCT WRAP: USE 75% (25% COMPRESSION) OF NOMINAL THICKNESS
- FACTORY-MADE FLEXIBLE AIR DUCTS: DIVIDE THE DIFFERENCE BETWEEN THE ACTUAL OUTSIDE DIAMETER AND NOMINAL INSIDE DIAMETER BY TWO.

120.4(e)
INSULATED FLEXIBLE DUCT PRODUCTS INSTALLED TO MEET THIS REQUIREMENT MUST INCLUDE LABELS (MAX INTERVALS OF 3 FT) SHOWING THERMAL RESISTANCE PERFORMANCE R-VALUE FOR THE DUCT INSULATION ITSELF BASED ON TESTS IN 120.4(c). AND INSTALLED THICKNESS DETERMINED BY 120.4(d)3.

Space Conditioning Mandatory Measures:

120.4(f) PROTECTION OF INSULATION
INSULATION SHALL BE PROTECTED FROM DAMAGE BY SUNLIGHT, MOISTURE, EQUIPMENT MAINTENANCE AND WIND. CELLULAR FOAM INSULATION SHALL BE PROTECTED, OR BE PAINTED WITH A WATER RETARDANT COATING THAT PROVIDES SHIELDING FROM SOLAR RADIATION.

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Project No.
230426

Contents:
TITLE 24 FORMS

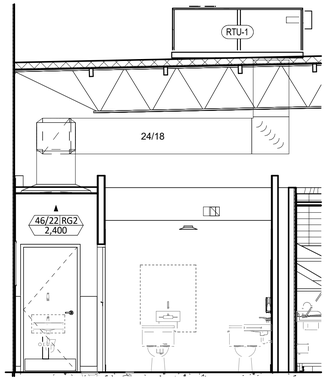
M012

HVAC PLAN NOTES

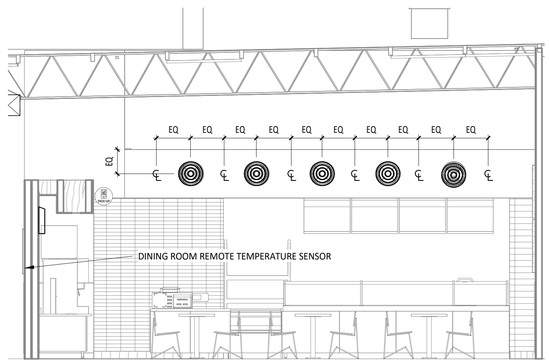
1. SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
2. PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS BLACK. TYPICAL.
3. NOT USED.
4. 26/16 DUCT UP FOR TRANSITION TO RTU-1 RETURN CONNECTION IN ROOF CURB. RTU-1 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-1 OPERATION.
5. 24/18 DUCT UP FOR TRANSITION TO RTU-2 RETURN CONNECTION IN ROOF CURB. RTU-2 SHALL HAVE AN INTEGRAL SMOKE DETECTOR MOUNTED IN THE RETURN AIR STREAM. INTERLOCK SMOKE DETECTOR TO RTU-2 OPERATION.
6. 28/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
7. 30/16 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
8. 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
9. 16/16 DUCT UP FROM HOOD THROUGH ROOF TO EF-1 COMPLIANT WITH NFPA 96. PROVIDE RADIUSED ELBOWS WITH AN INSIDE RADIUS OF 0.5W AT ELBOWS IN GREASE DUCT.
10. 8/6 DUCT UP THROUGH ROOF TO EF-2.
11. 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
12. 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
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 72" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
15. INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-2 AT THIS LOCATION 66" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
16. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-1 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
17. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS FOR RTU-2 IN THE SUPPLY DUCTWORK UPSTREAM FROM THE FIRST BRANCH CONNECTION. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
18. INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 72" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.
19. INSTALL KITCHEN HOOD, HD-1. SUPPORT HOOD PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL HOOD ACCORDING TO THE REQUIREMENTS OF ITS LISTING, IN COMPLIANCE WITH NFPA 96, THE BUILDING CODE, AND AUTHORITIES HAVING JURISDICTION. HOOD SHALL HAVE AN INTEGRAL DUCT COLLAR TEMPERATURE SENSOR TO AUTOMATICALLY ENERGIZE THE EXHAUST AND MAKEUP AIR FANS IF COOKING TEMPERATURES ARE DETECTED. EXHAUST DUCT SYSTEM TO BE WELDED OR FACTORY-MANUFACTURED WATER AND AIR TIGHT. INSTALL CLEANOUTS PER CODE AND AS SHOWN. INSTALL HOOD PER DETAILS 2, 4, AND 9/M700. CHIPOTLE WILL PROVIDE AN INDEPENDENT TESTING AGENCY FOR TESTING THE INTEGRITY OF THE GREASE DUCT SYSTEM.

HVAC PLAN NOTES

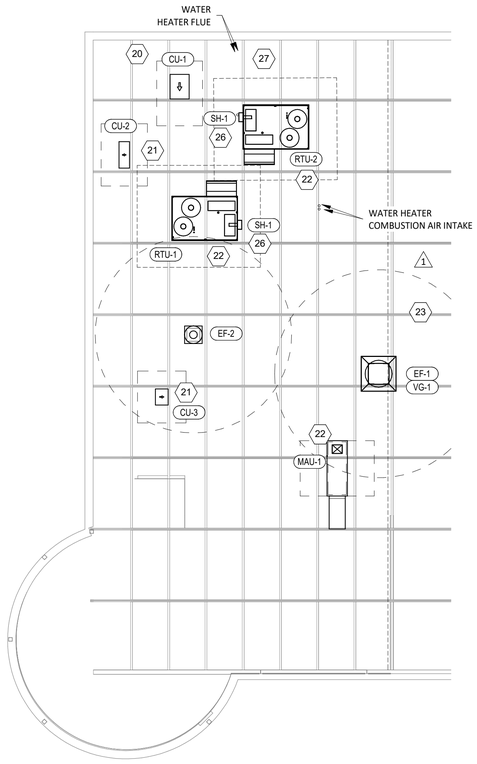
20. INSTALL REMOTE CONDENSING UNIT FOR WALK-IN COOLER ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE CONDENSING UNIT. CUT 2-1/2" HOLE IN WALK-IN COOLER ROOF FOR REFRIGERANT LINE SET AND SEAL PER THE COOLER MANUFACTURER'S INSTALLATION INSTRUCTIONS AFTER LINE SET IS INSTALLED.
21. INSTALL REMOTE CONDENSER FOR ICE MACHINE ON ROOF AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL REFRIGERANT LINE SET, THERMOSTATIC EXPANSION VALVE, SOLENOID VALVE, TEMPERATURE CONTROL, SIGHT GLASS, FILTER DRIER, PRESSURE CONTROL, LOW AMBIENT CONTROLS, AND WEATHERPROOF HOUSING. TRAP AND SLOPE REFRIGERANT LINES PER MANUFACTURER'S RECOMMENDATIONS. SEAL PIPING PENETRATIONS THROUGH ROOF. INSTALLATION SHALL COMPLY WITH ASHRAE/ANSI STANDARD 15. INSTALL THE REFRIGERANT LINE SET UNDER THE ROOF DECK TO WITHIN 3' OF THE REMOTE CONDENSER. IF REFRIGERANT PIPING TO ICE MAKER IS EXPOSED TO PUBLIC VIEW CONCEAL WITHIN A STAINLESS STEEL SHROUD AS SHOWN IN THE ARCHITECTURAL DRAWINGS.
22. INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
23. INSTALL EXHAUST FAN EF-1 PER DETAIL 5/M700 AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS. INSTALL GREASE VIROGUARD SYSTEM FURNISHED BY CHIPOTLE ON EXHAUST FAN, EF-1.
24. PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
25. PROVIDE AUDIO/VISUAL REMOTE SMOKE DETECTOR ANNUNCIATOR WITH REMOTE KEY OPERATED RESET. WIRE A UNIT BACK TO EACH SMOKE DETECTOR. MOUNT UNIT 60" AFF. TYPICAL.
26. INSTALL REME HALO AIR PURIFIER FURNISHED BY TUV IN RTU PER DETAIL 6/M700. SEE ELECTRICAL DRAWINGS FOR POWER CONNECTION INFORMATION. INSTALL UV WARNING STICKERS ON FACE OF ENCLOSURE PER DETAIL AND ON ANY RTU ACCESS DOOR(S) THROUGH WHICH THE REME HALO WOULD BE VISIBLE IF OPENED.
27. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER FLUE TERMINATION AND OUTSIDE AIR INTAKES. MAINTAIN 10' CLEARANCE BETWEEN WATER HEATER COMBUSTION AIR INTAKE AND EXHAUST FAN EF-1 DISCHARGE. SEE PLUMBING DRAWINGS FOR MORE INFORMATION ON WATER HEATER FLUE AND COMBUSTION AIR TERMINATIONS.
28. ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
29. INSTALL DINING ROOM DUCTWORK TIGHT TO STRUCTURE ABOVE.



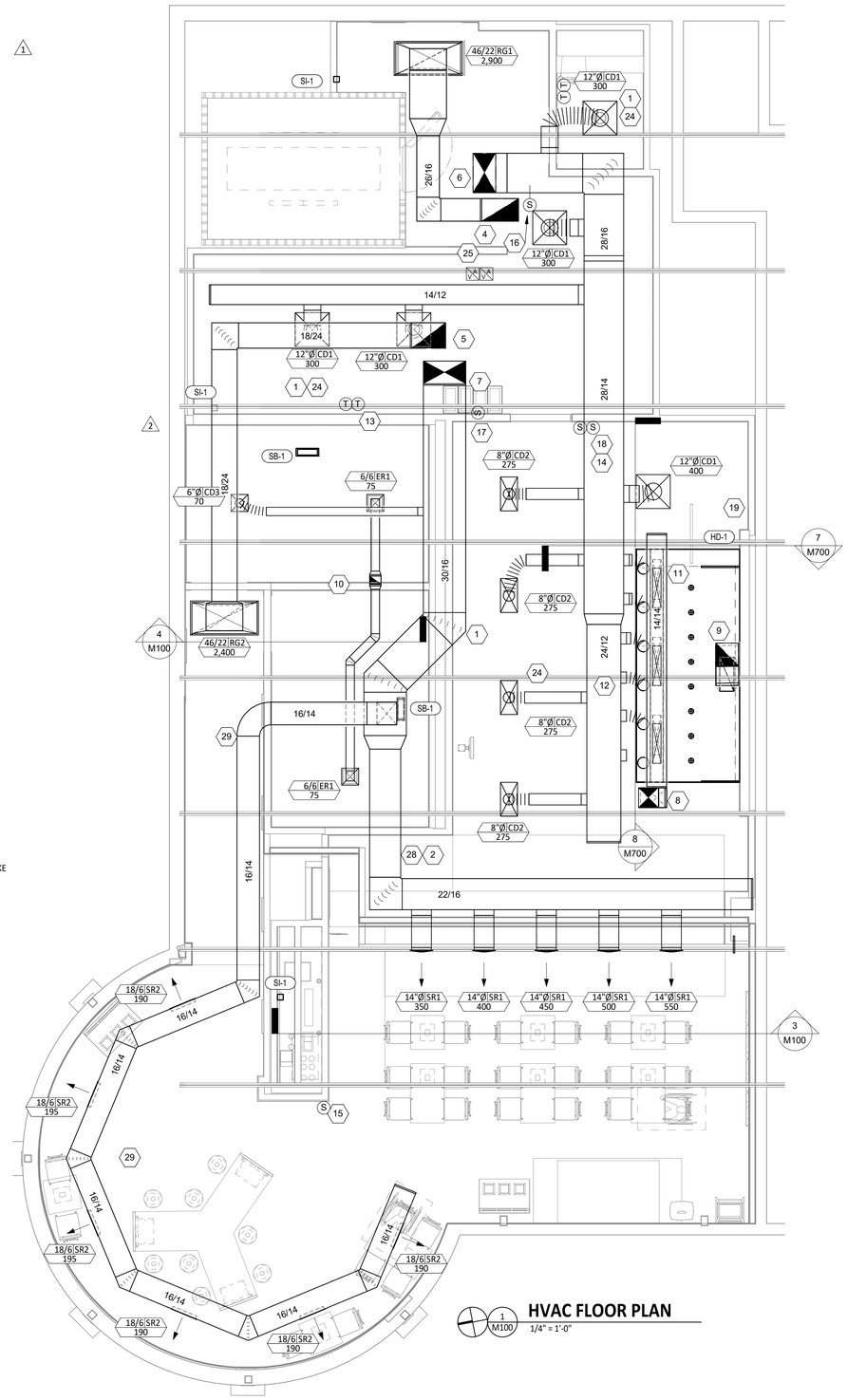
4 M100 **HVAC DINING ROOM RETURN SECTION**
NOT TO SCALE



3 M100 **HVAC DINING ROOM SECTION**
NOT TO SCALE



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



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

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Contents:
HVAC PLAN

M100

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MANUFACTURER	MODEL	
SB-1	2	BATHROOM AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	BRU ASSEMBLY	SEE ELECTRICAL SHEETS FOR CONNECTION INFORMATION
SH-1	2	HVAC AIR PURIFICATION UNIT	TUV	GC	RGF ENVIRONMENTAL GROUP	REME-HALO	SEE DETAIL 6/M700 FOR INSTALLATION INFORMATION.
SI-1	3	ICE MACHINE TREATMENT SYSTEM	TUV	GC	RGF ENVIRONMENTAL GROUP	IMS-B-GA	SEE PLUMBING DRAWINGS FOR INSTALLATION INFORMATION.

FAN SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	UPBLAST UL762 EXHAUST FAN	2,550 CFM	1.20 in-wg	400 lb	2 hp	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	DIRECT DRIVE UL762 UPBLAST EXHAUST FAN FURNISHED WITH WEATHERPROOF DISCONNECT AND VENTED ROOF CURB WITH HEAVY DUTY HINGE KIT
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	208/3/60	WCS	GC	HARFORD	KPCL99MZOP-3E	FURNISHED WITH WALK-IN COOLER
CU-2	REMOTE CONDENSER - LOW CAPACITY ICE MAKER		0	1	R-404A	11.46 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-9FZ	FURNISHED WITH ICE MAKER
CU-3	REMOTE CONDENSER - SODA MACHINE ICE MAKER		0	1	R-404A	3.86 lb	100 lb			120/1/60	KES	GC	HOSHIZAKI	URC-5FZ	FURNISHED WITH ICE MAKER

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW	E.S.P.	HEATING			WEIGHT	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
				INPUT	OUTPUT	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1,300 CFM	0.50 in-wg	49,793 Btu/h	45,810 Btu/h	36 °F	495 lb	1 hp	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	12.5:1 MAX TURNDOWN. FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM						PERFORATED SUPPLY PLENUMS										NO. OF LIGHT FIXTURES	WEIGHT	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					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	0.97 in-wg	1	10"	2' - 0"	12' - 9"	4' - 3"	13' - 9"	1' - 7"	1,300 CFM	3	6"	2' - 4"	700 CFM	6	8"	8	1,150 lb	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPSP-F	MAT'L: 18 GA. TYPE 430 SS. FURNISHED WITH VERTICAL END PANELS, VAPORPROOF INCANDESCENT LIGHT FIXTURES, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, KITCHEN EXHAUST SUPPRESSION SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY	EER	AIRFLOW			NET COOLING CAPACITY					HEATING CAPACITY			NUMBER OF		REFRIGERANT		WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
									EAT		COND. EAT									MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
				TOTAL	OA	E.S.P.	TOTAL	SENSIBLE	DB	WB		INPUT	OUTPUT	EAT	COMPRESSORS	CIRCUITS	TYPE	CHARGE									
RTU-1	KITCHEN ROOFTOP UNIT	8.5 ton	11.2	3,400 CFM	500 CFM	0.80 in-wg	90,530 Btu/h	84,150 Btu/h	75.7 °F	63 °F	80 °F	224,000 Btu/h	179,200 Btu/h	66.7 °F	2	2	R-410A	15.5 lb	1,094 lb	50 A	42 A	208/3/60	HES	GC	CARRIER	48FCFM09C2M5	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-13 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	8.5 ton	11.2	3,400 CFM	1,000 CFM	0.80 in-wg	90,530 Btu/h	84,150 Btu/h	76.5 °F	63.7 °F	80 °F	224,000 Btu/h	179,200 Btu/h	61.4 °F	2	2	R-410A	15.5 lb	1,094 lb	50 A	42 A	208/3/60	HES	GC	CARRIER	48FCFM09C2M5	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-13 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE

AIR BALANCE SCHEDULE

TAG	SUPPLY FLOW	RETURN FLOW	EXHAUST FLOW	SUBTOTAL
EF-1	0 CFM	0 CFM	2,550 CFM	-2,550 CFM
EF-2	0 CFM	0 CFM	150 CFM	-150 CFM
MAU-1	1,300 CFM	0 CFM	0 CFM	1,300 CFM
RTU-1	3,400 CFM	2,900 CFM	0 CFM	500 CFM
RTU-2	3,400 CFM	2,400 CFM	0 CFM	1,000 CFM
NET PRESSURIZATION				100 CFM

AIR TERMINAL SCHEDULE

TAG	DESCRIPTION	FACE SIZE	MATERIAL	FINISH	MOUNTING	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		NOTES
								MANUFACTURER	MODEL	
CD1	PERFORATED CEILING DIFFUSER	24" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD
CD2	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE WITH INTEGRAL OBD, REMOVE 4-WAY DEFLECTORS
CD3	PERFORATED CEILING DIFFUSER	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4320A TYPE S	PROVIDE WITH INTEGRAL OBD
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	PROVIDE INTEGRAL OBD
RG1	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4330R TYPE L	
RG2	PERFORATED CEILING RETURN	48" X 24"	ALUMINUM	WHITE	SURFACE MOUNT	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-14	PROVIDE WITH CONCEALED MOUNTING AND FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE WITH INTEGRAL OBD

CONTROL FUNCTIONS

A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

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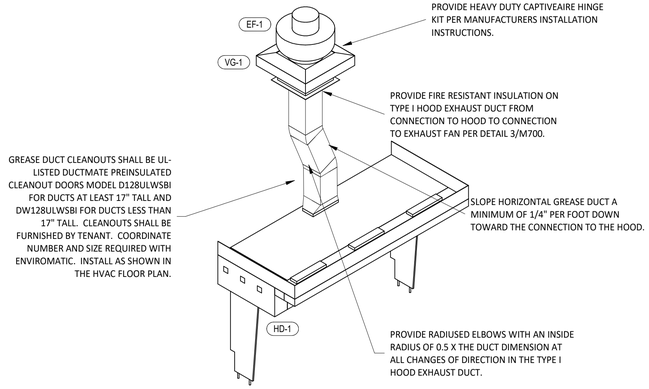
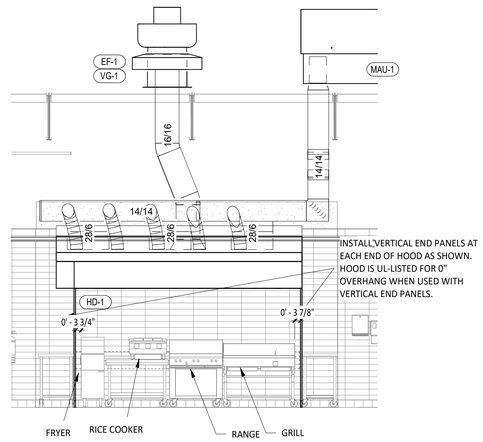
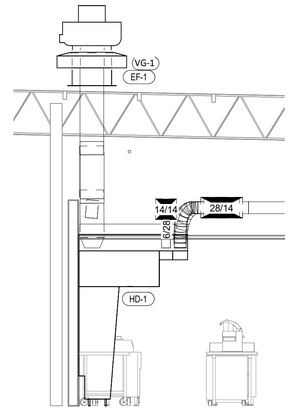
Contents:
HVAC SCHEDULES

M600



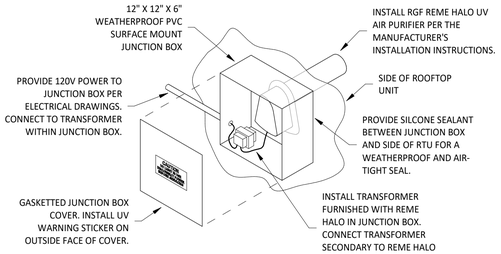


8 M700 HOOD ELEVATION
NOT TO SCALE



7 M700 DUCT SECTION AT HOOD
NOT TO SCALE

9 M700 HOOD EXHAUST ISOMETRIC
NOT TO SCALE



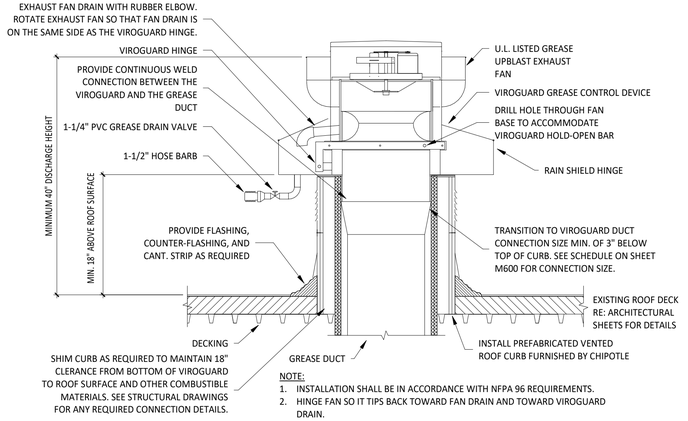
INSTALLATION LOCATION

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

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

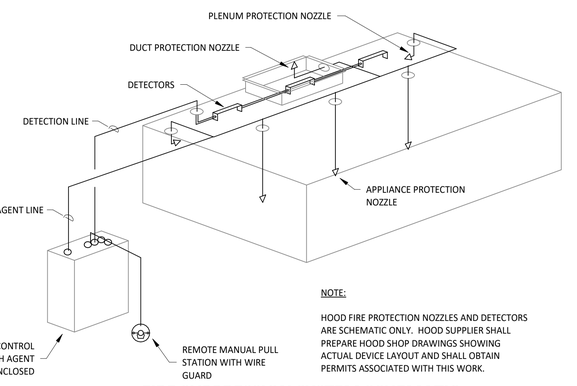
YORK: INSTALL INTO THE SUPPLY AIR PLENUM FROM THE BACK SIDE OF THE UNIT JUST ABOVE THE HEAT EXCHANGER.

6 M700 UV AIR PURIFIER INSTALLATION
NOT TO SCALE



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
NOT TO SCALE



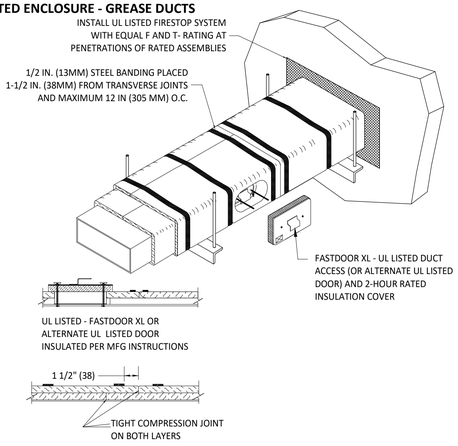
NOTE:

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
NOT TO SCALE

FIRE RATED ENCLOSURE - GREASE DUCTS

1. THERMAL CERAMICS FIREMASTER FASTWRAP XL IS TESTED TO ASTM E2336 AND UL LISTED PER HNKT.G18 TO PROVIDE ZERO CLEARANCE TO COMBUSTIBLES AND TO PROVIDE A 1- OR 2-HOUR ENCLOSURE. THROUGH PENETRATIONS FIRESTOP SYSTEMS ARE TESTED IN ACCORDANCE WITH ASTM E 814 (UL 1479). ICC CODE EVALUATION PER REPORT UL ER 14229-01.
2. COMPLIANT TO THE FOLLOWING CODES:
   - NFPA 96
   - INTERNATIONAL MECHANICAL CODES
   - UNIFORM MECHANICAL CODE.
   - CALIFORNIA MECHANICAL CODE
3. INSULATION APPLIED IN TWO LAYERS WITH TIGHT COMPRESSION JOINT ON BOTH LAYERS AT ALL JOINTS.
4. MINIMUM 16 GAUGE CARBON STEEL (OR 18 GAGE STAINLESS STEEL) RECTANGULAR OR ROUND GREASE EXHAUST DUCT
5. INSTALL UL LISTED AND LIQUID TIGHT THERMAL CERAMICS FASTDOOR XL ACCESS DOORS, OR ALTERNATE DOOR UL LISTED PER UL1978, AT ALL CHANGES IN DIRECTION AND AT MINIMUM EVERY 20 FT ON HORIZONTAL RUNS.
6. SUPPORT HANGER SYSTEMS DO NOT NEED TO BE WRAPPED PROVIDED THE HANGER RODS ARE MINIMUM OF 3/8 IN. DIAMETER AND SUPPORTS ARE MINIMUM 2 X 2 X 1/8 IN. STEEL ANGLE OR SMACNA EQUIVALENT SUPPORT SYSTEM.
7. THERMAL CERAMICS DUCT WRAP SHALL BE INSTALLED DIRECTLY ONTO THE DUCT AND APPLIED FROM THE HOOD CONNECTION TO THE CONNECTION TO THE FAN.
8. THERMAL CERAMICS DUCT ENCLOSURE SYSTEM SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS AND UL LISTINGS.



3 M700 FIREMASTER DUCT WRAP - UL HNKT-G18
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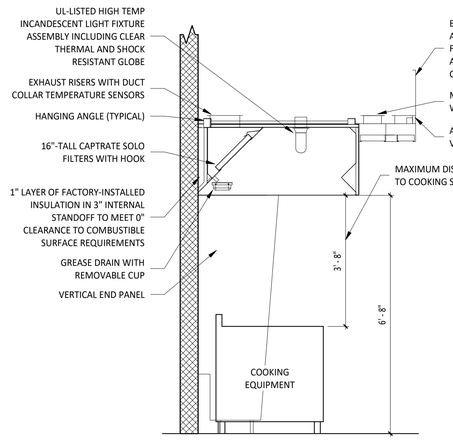
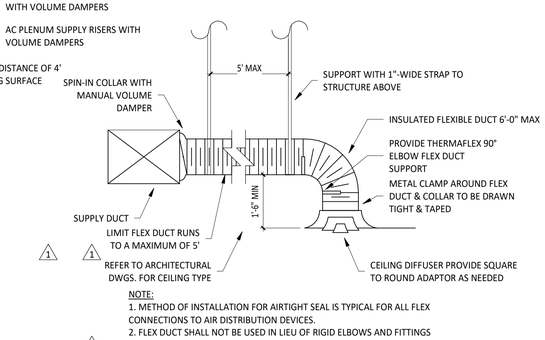


2 M700 HOOD SECTION VIEW
NOT TO SCALE



NOTE:
1. METHOD OF INSTALLATION FOR AIRTIGHT SEAL IS TYPICAL FOR ALL FLEX CONNECTIONS TO AIR DISTRIBUTION DEVICES.
2. FLEX DUCT SHALL NOT BE USED IN LIEU OF RIGID ELBOWS AND FITTINGS

1 M700 DIFFUSER CONNECTION
NOT TO SCALE

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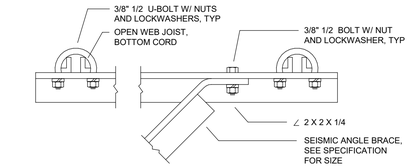
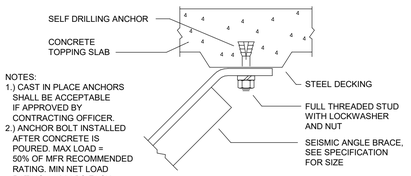
Contents:
HVAC DETAILS

M700



SEISMIC BRACE ATTACHMENT FROM JOIST

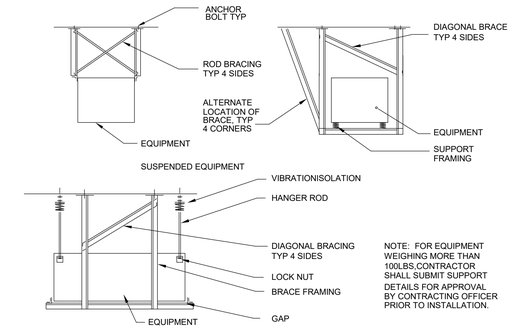


NOTES:
1.) CAST IN PLACE ANCHORS SHALL BE ACCEPTABLE IF APPROVED BY CONTRACTING OFFICER.
2.) ANCHOR BOLT INSTALLED AFTER CONCRETE IS POURED. MAX LOAD = 50% OF MFR RECOMMENDED RATING. MIN NET LOAD RATING = 125 LBS EACH.

SEISMIC BRACE ATTACHMENT FROM METAL DECK WITH CONCRETE SLAB

1 M701 SIESMIC ANGLE BRACE DETAIL

NOT TO SCALE

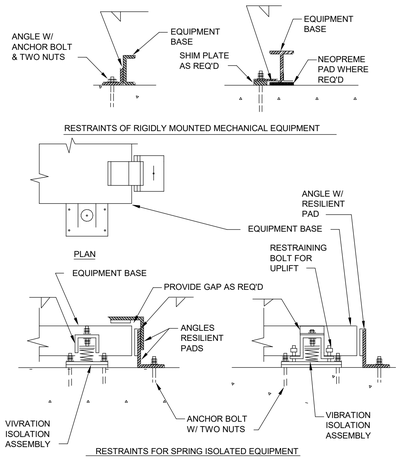


SUSPENDED EQUIPMENT WITH VIBRATION MOUNT

NOTE: FOR EQUIPMENT WEIGHING MORE THAN 100LBS,CONTRACTOR SHALL SUBMIT SUPPORT DETAILS FOR APPROVAL BY CONTRACTING OFFICER PRIOR TO INSTALLATION.

2 M701 SIESMIC RESTRAINTS AND SUPPORTS FOR EQUIPMENT

NOT TO SCALE



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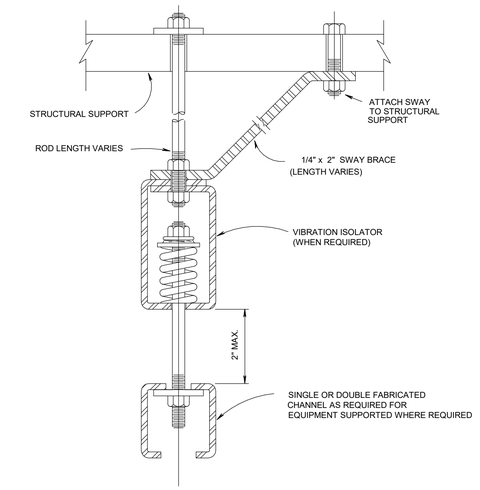
3 M701 SIESMIC RESTRAINTS FOR MECHANICAL EQUIPMENT

NOT TO SCALE



4 M701 SIESMIC SWAY BRACE DETAIL

NOT TO SCALE

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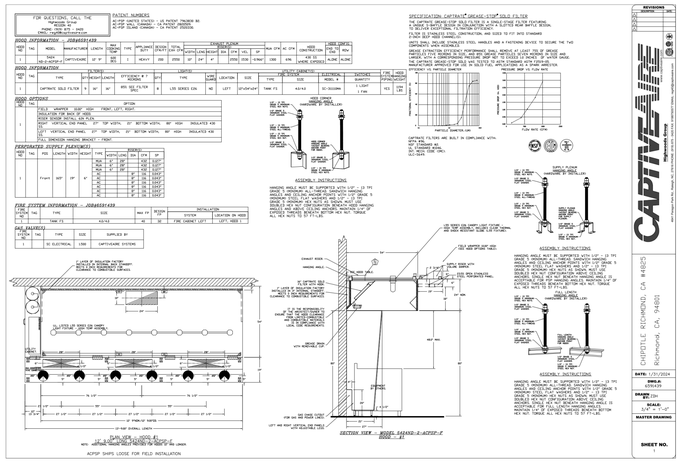
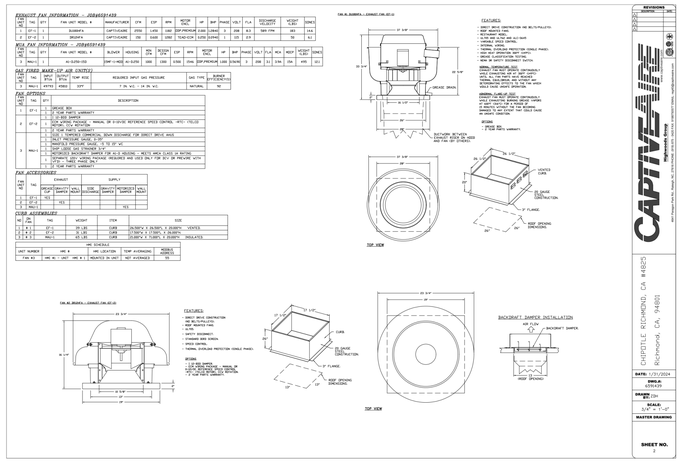
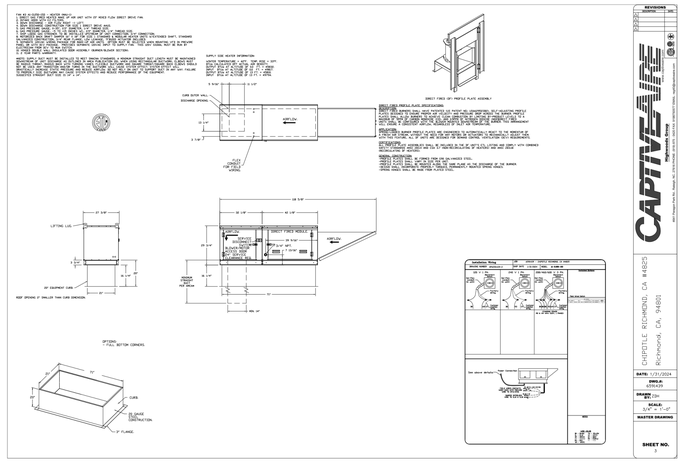
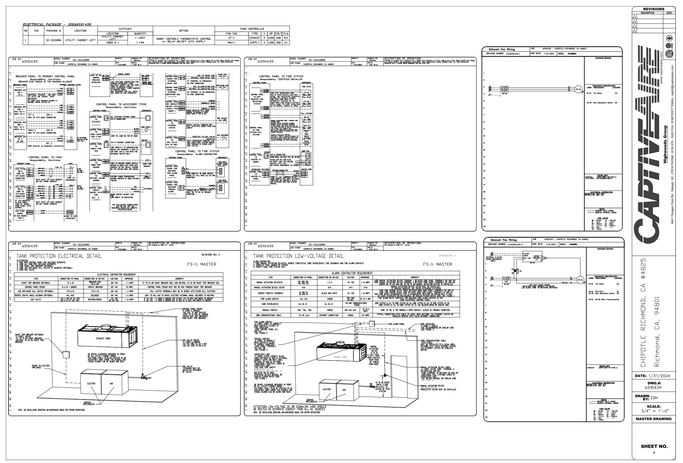
HVAC SIESMIC DETAILS

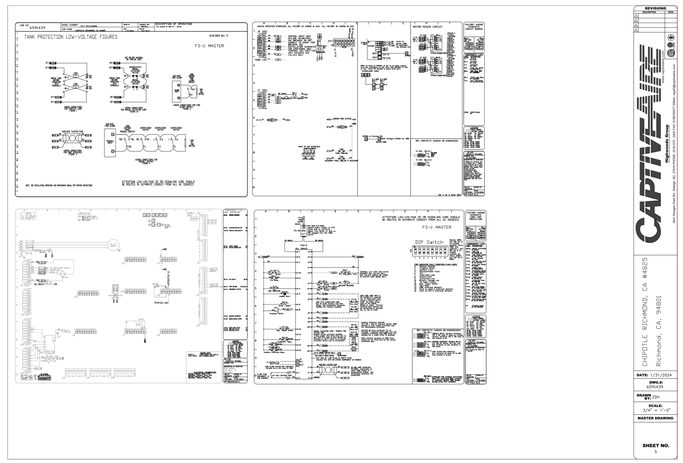
M701











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1

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Project No.
230426

Contents:

CAPTIVEAIRE SHOP DRAWINGS

M800

SECTION 15055 - COMMON PIPING REQUIREMENTS
PART 1 - GENERAL
A. SECTION REQUIREMENTS
1. Comply with the requirements of the Building Code and the local authority having jurisdiction.
PART 2 - PRODUCTS
2.1 SUPPORTING DEVICES
A. Hanger and Pipe Attachments: Factory fabricated with galvanized coatings; nonmetallic coated for hangers in direct contact with copper tubing.
B. Building Attachments: Powder actuated type, drive pin attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
C. Mechanical Anchor Fasteners: Insert-type attachments with pullout and shear capacities appropriate for supported loads and building materials; UL listing and FM approval for fire protection systems.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install piping free of sags and bends.
B. Install fittings for changes in direction and branch connections.
C. Install sleeves for pipes passing through concrete and masonry walls, gypsum board partitions, and concrete floor and roof slabs.
D. Exterior Wall, Pipe Penetrations: Mechanical sleeve seals installed in steel or cast iron pipes for wall sleeves.
E. Fire Barrier Penetrations: Seal pipe penetrations with through-penetration firestop systems.
F. Install unions adjacent to each valve and at final connection to each piece of equipment.
G. Install dielectric unions and flanges to connect piping materials of dissimilar metals in gas piping.
H. Install dielectric coupling and nipple fittings to connect piping materials of dissimilar metals in water piping.
I. Provide full ring escutcheons at plumbing penetrations through walls or ceilings. Tightly seal escutcheons to the adjacent surface.
3.2 HANGERS AND SUPPORTS
A. Install building attachments within concrete or to structural steel. Install additional attachments at concentrated loads, including valves, flanges, guides, strainers, expansion joints, and at changes in direction of piping.
B. Install powder actuated drive pin fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
C. Install mechanical anchor fasteners in concrete after concrete is cured. Do not use in lightweight concrete or in slabs less than 4 inches thick.
D. Support fire protection system piping independent of other piping.
E. Load Distribution: Install hangers and supports so piping live and dead loading and stresses from movement will not be transmitted to connected equipment.
END OF SECTION 15055

SECTION 15080 - MECHANICAL INSULATION
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Quality Assurance: Labeled with maximum flame-spread rating of 25 and maximum smoke developed rating of 50 according to ASTM E 84.
PART 2 - PRODUCTS
2.1 PIPE INSULATION
A. Preformed Glass Fiber Pipe Insulation: ASTM C 547, Class 1, with factory applied, all purpose, vapor retarder jacket.
B. Polyolefin Pipe Insulation: Unicellular polyethylene, preformed pipe insulation. Comply with ASTM C 534, Type I, except for density.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vapor barriers on insulated pipes with surface operating temperatures below 60 deg F.
B. Insulate fittings, valves, and specialties.
C. Seal vapor barrier penetrations for hangers, supports, anchors, and other projections.
D. Coat glass fiber pipe insulation ends with vapor barrier coating.
E. Roof Penetrations: Apply insulation for interior applications to a point even with the top of the roof flashing.
F. Exterior Wall Penetrations: For penetrations of below grade exterior walls, terminate insulation flush with mechanical sleeve seal.
G. Interior Walls and Partitions Penetrations: Apply insulation continuously through walls and partitions, except fire rated walls and partitions.
H. Fire Rated Walls and Partitions Penetrations: Terminate insulation at penetrations through fire rated walls and partitions. Seal around penetration with through penetration firestop systems.
I. Floor Penetrations: Terminate insulation at the underside of the floor assembly and at the floor support at top of floor. Seal around penetration with through penetration firestop systems.
J. Glass Fiber Insulation Installation: Bond insulation to pipe with adhesive. Seal seams and joints with vapor barrier compound.
K. Interior Piping System Applications: Insulate the following piping systems:
1. Domestic cold, hot, and recirculation water pipes.
2. Exposed sanitary drains and water supply pipes for public hand sinks.
3. Refrigerant piping.
L. Do not apply insulation to the following systems, materials, and equipment:
1. Flexible connectors.
2. Fire protection piping systems.
3. Sanitary drainage and vent piping.
4. Chrome plated pipes and fittings, except for plumbing fixtures for the disabled.
5. Piping specialties, including air chambers, unions, strainers, check valves, plug valves, and flow regulators.
M. Pipe Insulation Thickness Application Schedule: Insulate piping with the following materials and thicknesses:
1. Domestic Hot and Recirculation water pipes: 1-inch preformed glass fiber pipe insulation.
2. Domestic Cold Water: 1/2-inch preformed glass fiber pipe insulation.
3. P-Trap and Fixture Supplies for public hand sinks: ADA-compliant pre-formed insulation.
END OF SECTION 15080

SECTION 15110 - VALVES
PART 1 - GENERAL (Not Applicable)
PART 2 - PRODUCTS
2.1 GENERAL DUTY VALVES
A. End Connections: Threads shall comply with ANSI B1.20.1. Flanges shall comply with ANSI B16.1 for cast iron valves and ANSI B16.24 for bronze valves. Solder-joint connections shall comply with ANSI B16.18.
B. Ball Valves: Rated for 150 psig saturated steam pressure, 400 psig WOG pressure; 2 piece construction; with bronze body, standard (or regular) port, chrome plated brass ball, replaceable "Teflon" or "TFE" seats and seals, blowout proof stem, and vinyl covered steel handle.
C. Plug Valves: Rated at 150 psig WOG; bronze body, with straightaway pattern, square head, and threaded ends.
D. Swing Check Valves: Class 125, cast bronze body and cap; with horizontal swing, Y-pattern, and bronze disc.
E. Valves for Copper Tube: Solder ends, except provide threaded ends for heating hot water and low pressure steam service.
F. Valves for Steel Pipe: Threaded ends.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Use gate and ball valves for shutoff duty and ball for throttling duty.
B. Locate valves for easy access and provide separate support where necessary.
C. Install accessible valves for each fixture and item of equipment.
D. Install valves in horizontal piping with stem at or above center of pipe.
E. Install valves in a position to allow full stem movement.
F. Install check valves for proper direction of flow in horizontal position with hinge pin level.
END OF SECTION 15110

SECTION 15140 - DOMESTIC WATER PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Performance Requirements: Unless otherwise indicated minimum pressure requirements for water piping are as follows:
1. Service Entrance Piping: 100 psig.
2. Domestic Water Piping: 80 psig.
B. Comply with NSF 14 "Plastic Piping Components and Materials."
C. Comply with NSF 61 "Drinking Water System Components -- Health Effects."
PART 2 - PRODUCTS
2.1 PIPES AND TUBES (See Material Schedule on sheet P010 for where these materials are to be used)
A. Hard Copper Tube: ASTM B 88, Types L and M, water tube, drawn temper.
B. PVC Plastic, Water Pipe: ASTM D 1785, Schedule 80, plain ends.
2.2 FITTINGS
A. Wrought Copper, Solder Joint Pressure Fittings: ASME B 16.22.
B. Cast Copper Alloy, Solder Joint Pressure Fittings: ASME B 16.18.
C. Bronze Flanges: ASME B 16.24, Classes 150 and 300.
D. Copper Unions: ASME B 16.18, cast copper alloy body, hexagonal stock, with ball and socket joint, metal to metal seating surfaces, and solder joint, threaded, or solder joint and threaded ends. Threads complying with ASME B 1.20.1.
E. PVC Plastic, Schedule 80, Socket Type Pipe Fittings: ASTM D 2467.
2.3 JOINING MATERIALS
A. Solder Filler Metal: ASTM B 32, lead free.
B. Brazing Filler Metals: AWS A5.8, alloys to suit system requirements.
C. Solvent Cements: As recommended by manufacturer.
D. Plastic Pipe Seals: ASTM F 477, elastomeric gasket.
PART 3 - EXECUTION
3.1 VALVE APPLICATIONS
A. Install gate valves close to main on each branch and riser serving two or more plumbing fixtures or equipment connections and where indicated.
B. Install gate or ball valves on inlet to each plumbing equipment item, on each supply to each plumbing fixture not having stops on supplies, and elsewhere as indicated.
C. Install drain valve at base of each riser, at low points of horizontal runs, and where required to drain water distribution piping system.
D. Install swing check valve on discharge side of each pump and elsewhere as indicated.
E. Install ball valves in each hot water circulating loop and discharge side of each pump.
3.2 PIPING INSTALLATIONS
A. Install hangers and supports at intervals indicated in the applicable plumbing code and as recommended by pipe manufacturer.
B. Support vertical piping at each floor.
3.3 INSPECTING AND CLEANING
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
B. Clean and disinfect water distribution piping following procedures of authorities having jurisdiction.
END OF SECTION 15140

SECTION 15150 - SANITARY WASTE AND VENT PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Minimum Pressure Requirement for Soil, Waste and Vent: 10 feet head.
B. Comply with NSF 14 "Plastic Piping Components and Related Materials".
PART 2 - PRODUCTS
2.1 PIPES AND TUBES
A. PVC Plastic, DWV Pipe: ASTM D 2665, Schedule 40, plain ends.
2.2 FITTINGS
A. PVC Plastic, DWV Pipe Fittings: ASTM D 2665, made to ASTM D 3311; socket type; drain, waste, and vent pipe patterns.
PART 3 - EXECUTION
3.1 PIPING INSTALLATION
A. Install cleanout and extension to grade at connection of building sanitary drain and building sanitary sewer.
B. Locate drainage piping runouts as close as possible to bottom of floor slab supporting fixtures or drains.
3.2 INSPECTION
A. Inspect and test piping systems following procedures of authorities having jurisdiction.
END OF SECTION 15150

SECTION 15198 - NATURAL GAS PIPING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Quality Assurance: Comply with NFPA 54 and the Plumbing Code.
PART 2 - PRODUCTS
2.1 PIPE, TUBE, AND SPECIALTIES
A. Steel Pipe: ASTM A 53, Type S (Seamless), Grade B, Schedule 40, plain ends.
B. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
D. Gas Stops: AGA certified, bronze-body, plug type with bronze plug, for 2-psig or less natural gas. Include AGA stamp, flat or square head or lever handle, and threaded ends complying with ASME B1.20.1.
E. Gas Valves: 150-psig WOG, cast-iron or bronze body, bronze plug, straightaway pattern, square head, tapered-plug type.
F. Gas Pressure Regulators: ANSI Z21.18, single stage, steel jacketed, corrosion resistant pressure regulators. Include atmospheric vent, elevation compensator. Regulator pressure ratings, inlet and outlet pressures, and flow volume in cubic feet per hour of natural gas at specific gravity are as indicated.
G. Line Gas Pressure Regulators: Inlet pressure rating not less than system pressure.
H. Flexible Connectors: ANSI Z21.24, copper alloy.
I. Strainers: Bronze body, Y-pattern, full size of connecting piping. Include stainless-steel screens with 3/64 inch perforations and a pressure rating of 125-psig- minimum, WOG working pressure.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Close equipment shutoff valves before turning off gas to premises or section of piping. Perform leakage test as specified to determine that all equipment is turned off in affected piping section.
B. Install shutoff valve, downstream from gas meter, outside building at gas service entrance.
C. Install gas stops for shutoff to appliances with NPS 2" or smaller low pressure gas supply.
D. Drips and Sediment Traps: Install drips at points where condensate may collect. Include outlets of gas meters. Locate where readily accessible to permit cleaning and emptying. Do not install where condensate would be subject to freezing.
E. Install gas piping at uniform slope of 0.1 percent upward toward risers.
F. Connect branch piping from top or side of horizontal piping.
G. Install strainers on supply side of each control valve, gas pressure regulator, solenoid valve, and elsewhere as indicated.
H. Install valves in accessible locations, protected from damage.
I. Install gas valve upstream from each gas pressure regulator. Where two gas-pressure regulators are installed in series, valve is not required at second regulator.
J. Connect gas piping to equipment and appliances with shutoff valves and unions. Install gas valve upstream from and within 36 inches of each appliance using gas. Install union or flanged connection downstream from valve.
K. Inspect, test, and purge piping according to NFPA 54, Part 4, "Gas Piping Inspection, Testing, and Purging", and requirements of authorities having jurisdiction.
END OF SECTION 15198

SECTION 15410 - PLUMBING FIXTURES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
Submittals: None.
A. Comply with requirements of Public Law 102-486, "Energy Policy Act", regarding water flow rate and water consumption of plumbing fixtures.
B. Comply with applicable standards below:
1. Enameled, Cast Iron Fixtures: ASME A112.19.1M.
2. National Sanitation Foundation Construction: NFS2.
3. Porcelain Enameled Fixtures: ASME A112.19.4M.
4. Slip Resistant Bathing Surfaces: ASTM F 462.
5. Stainless Steel Fixtures: ASME A112.19.3M.
6. Vitreous China Fixtures: ASME A112.19.2M.
PART 2 - PRODUCTS
2.1 Refer to the fixture schedule on drawing P600
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install fixtures with flanges and gasket seals.
B. Install flushometer valves for accessible water closets and urinals with handle mounted on wide side of compartment. Install other actuators in locations that are easy for the disabled to reach.
C. Fasten wall hanging plumbing fixtures securely to supports attached to building substrate when supports are specified, and to building wall construction where no support is indicated.
D. Fasten floor mounted fixtures to substrate. With fixtures having holes for securing fixture to wall construction, fasten to reinforcement built into walls.
E. Fasten wall mounted fittings to reinforcement built into walls.
F. Fasten counter mounted plumbing fixtures to casework.
G. Secure supplies to supports or substrate within pipe space behind fixture.
H. Set mop basins in leveling bed of cement grout.
I. Install individual supply inlets, supply stops, supply risers, and tubular brass traps with cleanouts at fixture.
J. Install water supply stop valves in accessible locations.
K. Install traps on fixture outlets. Omit traps on fixtures having integral traps. Omit traps on indirect wastes, unless otherwise indicated or required by the Authority Having Jurisdiction.
L. Install full-ring escutcheons at wall, floor, and ceiling penetrations in exposed, finished locations and within cabinets and millwork. Use deep pattern escutcheons where required to conceal protruding pipe fittings.
M. Install piping connections between plumbing fixtures and piping systems and plumbing equipment. Install insulation on supplies and drains of fixtures for the disabled.
N. Ground equipment. Tighten electrical connectors and terminals according to UL 486A and UL 486B.
END OF SECTION 15410

SECTION 15554 - FLUES AND VENTS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
PART 2 - PRODUCTS
2.1 GAS VENTS
A. Vent/air intake for high efficiency domestic water heater. Follow manufacturer's recommendations for sizing and material.
B. Accessories: Tees, elbows, increasers, draft hood connectors, metal cap with bird barrier, adjustable roof flashing, storm collar, support assembly, thimbles, firestopping spacers, and fasteners; fabricated of similar materials and designs as vent-pipe straight sections.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install vents according to stipulated minimum clearances from combustibles.
B. Seal between sections of positive pressure vents using only sealants recommended by manufacturer.
C. Support vents at intervals to support the weight of the vent and all accessories, without exceeding loading of appliances.
END OF SECTION 15554

PLUMBING SYMBOLS

ELBOW UP
ELBOW DOWN
DOMESTIC COLD WATER
DOMESTIC FILTERED COLD WATER
DOMESTIC SOFTENED 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 P600 FOR EQUIPMENT INFORMATION
VALVE
SOLENOID-OPERATED VALVE
WALL HYDRANT/ROOF HYDRANT
CHECK VALVE
CIRCUIT-SETTER BALANCE VALVE RATED FOR POTABLE WATER
FLOOR DRAIN
FLOOR SINK
CLEANOUT

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A RESTAURANT TENANT FINISH OF AN EXISTING CORE AND SHELL BUILDING. THE NEW PLUMBING WORK CONSISTS OF NEW WASTE/VENT PIPIING, NEW HOT/COLD WATER PIPING, NEW HOT WATER HEATERS, AND NEW GAS PIPING.

PLUMBING ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
CW	DOMESTIC COLD WATER
DN	DOWN
EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FLR	FLOOR
FOH	FRONT OF HOUSE
FS	FLOOR SINK
FW	DOMESTIC FILTERED COLD WATER
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GT	GREASE TRAP
GW	GREASE WASTE
GYP	GYPSUM BOARD
HW	DOMESTIC HOT WATER
NTS	NOT TO SCALE
O/H	OVERHEAD
SAN	SANITARY WASTE

PLUMBING ABBREVIATIONS

ST	STORM SEWER
SW	DOMESTIC SOFTENED COLD WATER
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WIC	WALK-IN COOLER
C02AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PLUMBING GENERAL NOTES

A GENERAL NOTES APPLY TO PLUMBING SHEETS.
B PLUMBING WORK SHALL BE DONE IN ACCORDANCE WITH THE PLUMBING CODE, LOCAL HEALTH DEPARTMENT STANDARDS, AND THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C PIPING LAYOUTS ON DRAWINGS ARE SCHEMATIC. EXACT LOCATIONS ARE TO BE COORDINATED WITH THE EXISTING CONDITIONS AND THE WORK OF OTHER TRADES.
D CONCEAL PIPING UNLESS NOTED OTHERWISE. WATER SUPPLY PIPES SHALL BE INSTALLED LEVEL.
E PROVIDE SHUT-OFF VALVES FOR ISOLATION OF FIXTURE GROUPS AS SHOWN ON DRAWINGS IN ADDITION TO STOP VALVES AT EACH FIXTURE.
F PROVIDE STOP VALVES AT FIXTURES.
G PROVIDE TRAP PRIMERS FOR FLOOR DRAINS AS SHOWN ON SHEET P100.
H WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
I PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
J INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 8/P700.
K PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
L PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
M PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
N THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
O PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
P PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.
Q INSTALL SHUTOFF AND ISOLATION VALVES SHOWN TO BE ABOVE CEILINGS IN ACCESSIBLE LOCATIONS WITHIN 12" OF LAY-IN CEILINGS.

PLUMBING MATERIAL SCHEDULE

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

BUILDING CODE DATA

	CODE	
GENERAL	CALIFORNIA BUILDING CODE	2022
HVAC/MECHANICAL	CALIFORNIA MECHANICAL CODE	2022
PLUMBING	CALIFORNIA PLUMBING CODE	2022
ELECTRICAL	CALIFORNIA ELECTRICAL CODE	2022
FIRE PROTECTION	CALIFORNIA FIRE CODE	2022
	NFPA STANDARDS	CURRENT
FUEL	CALIFORNIA PLUMBING CODE	2022
ENERGY	CALIFORNIA ENERGY CODE	2022
LOCAL AMENDMENTS	TITLE 8 BUILDING REGULATIONS - AMENDMENTS	CURRENT

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

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Project No. 230426

Contents:
PLUMBING SPECIFICATIONS

P010

CERTIFICATE OF COMPLIANCE		NRCC-PLB-E
This document is used to demonstrate compliance for nonresidential occupancies with requirements in 110.1, 110.3, 120.3, and 140.5, and with requirements in 141.0 for additions and alterations, for domestic water heating scopes using the prescriptive path. For high-rise residential and hotel/motel occupancies compliance is demonstrated with requirements in 110.1, 110.3, 160.4 and 170.2(d), and with requirements 180.1 for additions and 180.2 for alterations.		
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A. GENERAL INFORMATION

01	Project Location (city)	Richmond, CA	02	Climate Zone	3
03	Occupancy Types Within Project (select all that apply):				

• Restaurant

B. PROJECT SCOPE

This table includes domestic water heating systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive paths outlined in 140./170.2(d) and 141.0(a)/ 180.1, or 141.0(b)2N / 180.2 for additions or alterations. Solar water heating systems are documented on the NRCC-SAB compliance document. Combined hydronic water heating systems are documented on the NRCC-MCH compliance document.

01	02	03		
My project consists of (check all that apply):	System Type[1,2]	System Components		
☒ New system (DHW system being installed for the first time)	Central System (serving nonresidential spaces)	☒ Equipment	☒ Distribution	☒ Controls
☐ System Alteration (equipment, distribution or controls)		☐ Equipment	☐ Distribution	☐ Controls

[1]*FOOTNOTES: Point of use water heaters, or other non-central systems used to serve nonresidential spaces, are considered individual systems.*
[2] *Dwelling units refers to hotel/motel guest rooms and units in a multifamily residential occupancy.*
[3] *DHW systems serving 2 or more dwelling units are considered "Central Systems" for multifamily occupancies*

C. COMPLIANCE RESULTS

Table C will indicate if the project data input into the compliance document is compliant with water heating requirements. If this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. or the table indicated as not compliant for guidance.

01	02	03	04
Domestic Hot Water Equipment	Distribution Systems	Controls	**Compliance Results**
Table F	Table G	Table H	
Yes	Yes	Yes	COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

STATE OF CALIFORNIA
Domestic Water Heating System
CALIFORNIA ENERGY COMMISSION

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E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. DOMESTIC HOT WATER EQUIPMENT

This table is used to demonstrate compliance with mandatory equipment requirements in 110.1 and 110.3. Compliance with prescriptive requirements in 140.5(c) / 170.2(d) must also be demonstrated and with 141.0 / 180.1/ 180.2 for addition and alteration scopes.

Equipment Schedule: Water Heating Efficiency and Standby Loss

03		04		05		06		
System Name	DWH	Exception to 140.5(c)/ 170.2(d)3	Exceptions Do Not Apply	☐	Gas Service Water Heating System >= 1MMBtu/h[1]	Capacity-weighted Average Efficiency %		
07	08	09	10	11	12	13	14	15
Name or Item Tag	Equipment Type	Volume (gal)	Rated Input Capacity (Btu/h)	Max GPM/ First Hour Rating (FHR)	Rated Efficiency	Minimum Efficiency Required	Efficiency Unit	Designed Standby Loss	Maximum Standby Loss
DWH-1	Commercial Gas Instantaneous Water Heater	0	199,000		0.96	0.8	TE		
DWH-2	Commercial Gas Instantaneous Water Heater	0	199,000		0.96	0.8	TE		

[1]*FOOTNOTE: In systems >= 1MMBtu/h with multiple units, gas water heaters with input capacity > 100,000 Btu/h may meet 90% Et requirements via an input capacity-weighted average.*
[2]*FOOTNOTE: Compliant equipment may be found in the Modernized Appliance Efficiency Database System (MAEDBS) on the Energy Commission website: https://cacertappliances.energy.ca.gov/Pages/Search/AdvancedSearch.aspx*

Water Heating Equipment All Occupancies

	Yes	No	Not Applicable	Requirement
18	☐	☐	☒	Unfired storage tank insulation shall have Internal + External >=R-16 OR External >=R-3.5. Label required per 110.3(c)3
19	☐	☐	☒	New state buildings 60% of energy for service water heating from site solar energy or recovered energy per 110.3(c)5
20	☒	☐	☐	Isolation valves for instantaneous water heater with input rating >6.8 kBTUH or 2 kW has been specified per 110.3(c)6
21	☐	☐	☒	School buildings < 25,000 ft^2 and < 4 stories must install a heat pump water heating system per 140.5(a)1. Water heating systems serving an individual bathroom space may be an instantaneous electric water heater.

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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

This table is used to demonstrate compliance for nonresidential occupancies with distribution requirements in 120.3 and 140.5. For multifamily and hotel/motel occupancies, compliance is demonstrated with requirements 110.3(c), 160.4, 170.2(d).

Recirculation Loops in Central Systems Serving Dwelling Units or Nonresidential Spaces

	Yes	No	Not Applicable	Requirement
01	●	○	○	Air release valve or vertical pump installation per 110.3(c)4A
02	●	○	○	Check valve or similar located between recirculation pump and water heating equipment to prevent backflow per 110.3(c)4B
03	●	○	○	Hose bibb installed between pump and equipment and isolation valve between hose bibb and equipment per 110.3(c)4C
04	●	○	○	Isolation valves on both sides of the pump per 110.3(c)4D
05	●	○	○	Cold water and recirculation loop piping shall not be connected to the hot water storage tank drain port per 110.3(c)4E
06	●	○	○	Check valve installed on cold water supply between hot water system and next closest tee on cold water supply per 110.3(c)4F
07	○	○	●	DWELLING UNITS ONLY: For central systems serving multiple dwelling units, design includes a recirculation system serving separate dwelling units per 170.2(d) unless building has <=8 dwelling units.
08	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the hot water return from the recirculation loop shall connect to a recirculation loop tank and shall not directly connect to the primary heat pump water heater inlet or the primary thermal storage tanks per 170.2(d)2A.
09	○	○	●	DWELLING UNITS ONLY: For heat pump water heating systems, the fuel source for the recirculation loop tank shall be electricity if auxiliary heating is needed. The recirculation loop heater shall be capable of multi-pass water heating operation per 170.2(d)2B.

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G. DOMESTIC HOT WATER DISTRIBUTION SYSTEM

Mandatory Pipe Insulation All Occupancies

13	☐	For systems serving dwelling units, pipe insulation must meet the minimum insulation requirements in Table 160.4-A (see below) except: • Piping that penetrates framing members shall not be required to have pipe insulation for the distance of the framing penetration. Piping that penetrates metal framing shall use grommets, plugs, wrapping or other insulating material to assure that no contact is made with the metal framing. Insulation shall abut securely against all framing members • Piping installed in interior or exterior walls shall not be required to have pipe insulation if all of the requirements are met for compliance with Quality Insulation Installation (QII) as specified in the Reference Residential Appendix RA3.5. • Piping surrounded with a minimum of 1 inch of wall insulation, 2 inches of crawlspace insulation, or 4 inches of attic insulation, shall not be required to have pipe insulation.
14	☒	For systems serving nonresidential spaces, pipe insulation for the following applications is specified to comply with Table 120.3-A (see below) per 120.3: • Recirculating system piping, including supply and return piping of the water heater • The first 8 ft of hot and cold outlet piping, including between storage tank and heat trap, for a nonrecirculating storage system • Pipes that are externally heated
15	☒	Insulation shall be protected from damage, including that due to sunlight, moisture, equipment maintenance, and wind. Insulation exposed to weather shall be installed with a cover suitable for outdoor service per 120.3(b) / 160.4(f). Pipe insulation buried below grade must be installed in a water proof and non-crushable casing or sleeve.

TABLE 120.3-A / 160.4-A PIPE INSULATION THICKNESS

Fluid Temperature Range (°F)	Conductivity Range (Btu-in per hour per ft^2 per °F)	Insulation Mean Rating Temp (°F)	Nominal Pipe Diameter (in)			
			< 1	1 to < 1.5	1.5 to < 4	1.5 to < 4 Multifamily & Hotel/Motel
			Minimum Insulation Required			
105-140	0.22 - 0.28	100	1.0 in or R-7.7	1.5 in or R-12.5	1.5 in or R-11	2.0 in or R-16

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H. DOMESTIC HOT WATER CONTROLS

This table is used to demonstrate compliance with control requirements in 110.3 for all occupancies. For multifamily residential and hotel/motel occupancies, compliance is also demonstrated with requirements in 160.4(e) / 170.2(d).

	Yes	No	Not Applicable	Requirement
01	☒	☐	☐	Construction documents require manufacturer certification that service water-heating systems are equipped with automatic temperature controls capable of adjusting temperature settings per 110.3(a).
02	☒	☐	☐	Systems with capacity > 167,000 BTUH equipped with outlet temperature controls per 110.3(c)1 unless covered by California Plumbing Code 613.0.
03	☒	☐	☐	Controls for circulating pumps or electrical heat trace systems are capable of automatically turning off the system per §110.3(c)2 unless systems serves healthcare facility.
04	☐	☐	☒	For recirculation systems serving multiple dwelling units, design includes automatic pump controls per 170.2(d) or 180.1(b)3 for additions.
05	☐	☐	☒	For recirculation systems serving individual dwelling units, design includes manual on/off controls as specified in Reference Appendix RA4.4.9 per 170.2(d).
06	☐	☐	☒	Combustion air positive shut-off shall be provided per 160.4(3).on all newly installed commercial boilers as follows: • Boilers with input capacity >= 2.5 MMBtu/h, in which the boiler is designed to operate with a nonpositive vent static pressure • Boilers where one stack serves two or more boilers with a total combined input capacity per stack of 2.5 MMBtu/h.
07	☐	☐	☒	Boiler combustion air fans with motor >= 10 hp shall meet one of the following • The fan motor shall be driven by a variable speed drive OR • The fan motor shall include controls that limit the fan motor demand to <=30% of the total design wattage at 50% of the design air volume.
08	☐	☐	☒	Newly installed boilers with an input capacity [d:gte/] 5MMBtu/h and a steady state full-load combustion efficiency < 90% shall maintain excess (stack-gas) oxygen concentrations <= 5% by volume on a dry basis over firing rates of 20-100%. Combustion air volume shall be controlled with respect to firing rate or flue gas oxygen concentration. Use of a common gas and combustion air control linkage or jack shaft is prohibited.

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I. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-PLB-E - Must be submitted for all buildings

J. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

K. DECLARATION OF REQUIRED CERTIFICATES OF VERIFICATION

There are no forms required for this project.

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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
Sam Frank	
Company:	Signature Date:
Address:	CEA/ HERS Certification Identification (if applicable):
City/State/Zip:	Phone:

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name:	Responsible Designer Signature:
Sam Frank	
Company:	Date Signed:
Address:	License:
City/State/Zip:	Phone:

1

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Issue Record:

02/29/2024	PERMIT SET
07/24/2024	IFC SET

Revisions:

1	04/19/24	PERMIT COMMENTS

Drawn:	PM:	CC:	Checked:
SF	BE	WS	PD

Project No.
230426

Contents:
TITLE 24 FORMS

P011

Service Water Heating Mandatory Measures:
110.3(a) CERTIFICATION BY MANUFACTURERS ANY SERVICE WATER HEATING SYSTEM OR EQUIPMENT MAY BE INSTALLED ONLY IF CERTIFIED TO THE ENERGY COMMISSION TO MEET ALL APPLICABLE 110.3 REQUIREMENTS
110.3(a)1 TEMPERATURE CONTROLS SERVICE WATER HEATING SYSTEMS SHALL BE EQUIPPED WITH AUTOMATIC TEMPERATURE CONTROLS CAPABLE OF BEING ADJUSTED FROM LOWEST TO HIGHEST ACCEPTABLE TEMPERATURES FOR THE INTENDED USE AS LISTED IN TABLE 3, CHAPTER 50 OF THE ASHRAE HANDBOOK, HVAC APPLICATIONS VOLUME, OR TABLE 613.1 OF THE CALIFORNIA PLUMBING CODE FOR HEALTHCARE FACILITIES. RESIDENTIAL OCCUPANCIES ARE EXEMPT FROM TEMPERATURE CONTROL REQUIREMENTS
110.3(b) EFFICIENCY EQUIPMENT SHALL MEET THE APPLICABLE REQUIREMENTS OF THE APPLIANCE EFFICIENCY REGULATIONS AS REQUIRED BY 110.1.
110.3(c)1 OUTLET TEMPERATURE CONTROLS ON SYSTEMS THAT HAVE A TOTAL CAPACITY GREATER THAN 167,000 BTU/HR, OUTLETS THAT REQUIRE HIGHER THAN SERVICE WATER TEMPERATURES AS LISTED IN THE ASHRAE HANDBOOK, APPLICATIONS VOLUME, SHALL HAVE SEPARATE REMOTE HEATERS, HEAT EXCHANGERS, OR BOOSTERS TO SUPPLY THE OUTLET WITH THE HIGHER TEMPERATURE.
110.3(c)2 CONTROLS FOR HOT WATER DISTRIBUTION SYSTEMS SERVICE HOT WATER SYSTEMS WITH CIRCULATING PUMPS OR WITH ELECTRICAL HEAT TRACE SYSTEMS SHALL BE CAPABLE OF AUTOMATICALLY TURNING OFF THE SYSTEM.
110.3(c)4 WATER HEATER RECIRCULATION LOOPS WATER HEATING RECIRCULATION LOOPS SERVING MULTIPLE DWELLING UNITS, HIGH-RISE RESIDENTIAL, HOTEL/MOTEL AND NONRESIDENTIAL OCCUPANCIES SHALL HAVE: A. AIR RELEASE VALVE OR VERTICAL PUMP INSTALLATION B. RECIRCULATION LOOP BACKFLOW PREVENTION C. EQUIPMENT FOR PUMP PRIMING D. PUMP ISOLATION VALVES E. COLD WATER SUPPLY AND RECIRCULATION LOOP CONNECTION TO HOT WATER STORAGE TANK F. COLD WATER SUPPLY BACKFLOW PREVENTION
110.3(c)6 ISOLATION VALVES INSTANTANEOUS WATER HEATERS WITH AN INPUT RATING >6.8 KBTU/HR (2KW) SHALL HAVE ISOLATION VALVES ON BOTH COLD WATER SUPPLY AND HOT WATER PIPE LEAVING THE WATER HEATER, AND HOSE BIBS OR OTHER FITTINGS ON EACH VALVE FOR FLUSHING THE WATER HEATER WHEN THE VALVES ARE CLOSED.
110.8(a) INSULATION CERTIFICATION INSTALLED INSULATION SHALL BE CERTIFIED BY THE DEPARTMENT OF CONSUMER AFFAIRS PER TITLE 24, PART 12, CHAPTERS 12-13, ARTICLE 3 "STANDARDS FOR INSULATING MATERIAL."
110.8(b) UREA FORMALDEHYDE INSULATION UREA FORMALDEHYDE INSULATION SHALL NOT BE INSTALLED UNLESS IN EXTERIOR SIDE WALLS WITH A FOUR-MIL-THICK PLASTIC POLYETHYLENE VAPOR RETARDER OR EQUIVALENT PLASTIC SHEATHING VAPOR RETARDER IS INSTALLED BETWEEN THE UREA FORMALDEHYDE FOAM INSULATION AND THE INTERIOR SPACE.

Service Water Heating Mandatory Measures:
110.8(c) INSULATING MATERIAL ALL INSULATING MATERIALS SHALL BE INSTALLED IN COMPLIANCE WITH THE FLAME SPREAD RATING AND SMOKE DENSITY REQUIREMENTS OF THE CALIFORNIA BUILDING CODE.

Consultant:

Bowman

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Revisions:

Drawn:	PM:	CC:	Checked:
SF	BE	WS	PD

Project No.

230426

Contents:

TITLE 24 FORMS

P012

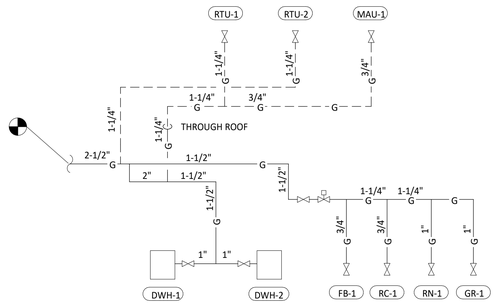
PLUMBING SUPPLY PLAN NOTES

1 NOT USED.
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 NOT USED.
8 PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.
9 SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.
10 PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.
11 REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.
12 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
13 PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.
14 PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 14/P700.
15 PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.
16 CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.

PLUMBING GAS CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE	EQUIVALENT LENGTH	INPUT
DWH-1	WATER HEATER (GAS TANKLESS)	3/4"	65'	199,000 Btu/h
DWH-2	WATER HEATER (GAS TANKLESS)	3/4"	65'	199,000 Btu/h
FB-1	GAS FRYER	3/4"	85'	90,000 Btu/h
GR-1	GAS GRIDDLE	3/4"	95'	110,000 Btu/h
MAU-1	DIRECT-FIRED MAKEUP AIR UNIT	1/2"	70'	49,793 Btu/h
RC-1	RICE COOKER	3/4"	90'	33,000 Btu/h
RN-1	6 BURNER RANGE	3/4"	95'	192,000 Btu/h
RTU-1	KITCHEN ROOFTOP UNIT	3/4"	0'	224,000 Btu/h
RTU-2	DINING ROOM ROOFTOP UNIT	3/4"	0'	224,000 Btu/h
UR-1	URINAL		MAX: 130	
GRAND TOTAL				1,320,793 Btu/h

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



3 P100 **GAS DISTRIBUTION DIAGRAM**
NOT TO SCALE

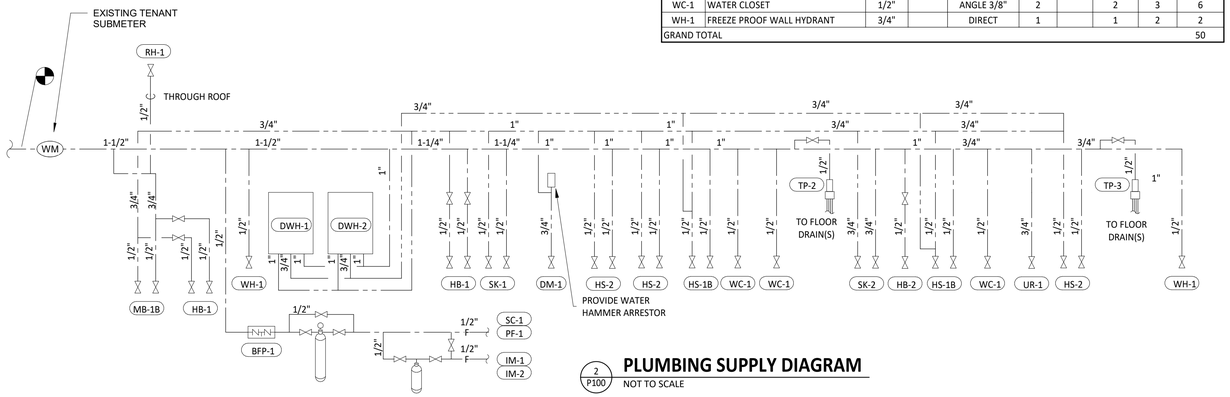
PLUMBING SUPPLY PLAN NOTES

17 PROVIDE ASSE 1016/1070 POINT-OF-USE THERMOSTATIC MIXING VALVE, WATTS LFUSG-B, ON WATER SUPPLY TO KITCHEN HAND SINKS. PROVIDE ANGLE STOP BELOW SINK, FASTEN MIXING VALVE TO WALL, AND MAKE FINAL CONNECTION FROM ANGLE STOPS TO MIXING VALVE AND FROM MIXING VALVE TO FAUCET USING BRAIDED STAINLESS STEEL HOSE. ADJUST MIXING VALVE FOR A DISCHARGE TEMPERATURE OF APPROXIMATELY 110° F.
18 PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.
19 PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.
20 PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.
21 PROVIDE 1/2" FILTERED WATER ROUGH-IN TO THE ICE MAKER AT 24" AFF. PROVIDE 6' LONG STAINLESS STEEL FLEXIBLE BRAIDED WASHING MACHINE WATER CONNECTOR WITH MINIMUM 0.43" ID (BRASSCRAFT SL12-72WA F OR EQUAL) FOR FINAL CONNECTION TO ICE MAKER. NO PIPING SHALL BE EXPOSED ON THE INTERIOR OF THE BUILDING.
22 INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS.
23 PROVIDE 3/4" DOMESTIC HOT AND COLD WATER ROUGH-INS FOR THE PREP SINK (SK-2) FAUCET AT 24" AFF TO ALLOW FOR THE VICTORY WASH CHEMICAL DOCK TO BE INSTALLED DIRECTLY BELOW THE PREP SINK BASIN. MAKE FINAL CONNECTION TO PREP SINK FAUCET USING 3/4" BRAIDED STAINLESS STEEL WATER HEATER CONNECTOR HOSE.
24 PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSABLE SHUTOFF VALVE BELOW THE DISH MACHINE AND INSTALL THE STRAINER FURNISHED WITH THE DISH MACHINE IN AN ACCESSIBLE LOCATION AT THE CONNECTION TO THE UNIT.
25 PROVIDE ROOF HYDRANT RH-1 WITH BOTTOM OF NOZZLE INSTALLED 24" ABOVE THE BOTTOM OF ROOF DECK. PROVIDE ACCESSIBLE ISOLATION VALVE IN WATER SUPPLY TO ROOF HYDRANT. SUPPORT ROOF HYDRANT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
26 PROVIDE FILTERED DOMESTIC WATER ROUGH-IN FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.
27 PROVIDE WATER SERVICE ENTRY PER DETAIL 16/P700.
28 INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHIPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.
29 PENETRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.
30 PROVIDE ACCESSIBLE TRAP PRIMER ABOVE LAY-IN CEILING AS SHOWN. INSTALL PER MANUFACTURER'S INSTALLATION INSTRUCTIONS WITH A SERVICE VALVE AT THE TRAP PRIMER INLET. PROVIDE 1/2" DISTRIBUTION PIPE(S) TO FLOOR DRAIN TRAP PRIMER CONNECTION(S) AS SHOWN. HORIZONTAL DISTRIBUTION PIPING SHALL HAVE CONTINUOUS SLOPE TO THE FLOOR DRAIN(S)
31 CONNECT TO EXISTING 1-1/2" WATER STUB. GC TO CONFIRM SIZING PRIOR TO CONNECTING TO EXISTING LINE.
32 CONNECT TO EXISTING GAS STUB, CONFIRM LINE IS PROVIDED WITH AT LEAST 1321 MBH AT 7" W.C. PRIOR TO CONNECTION.

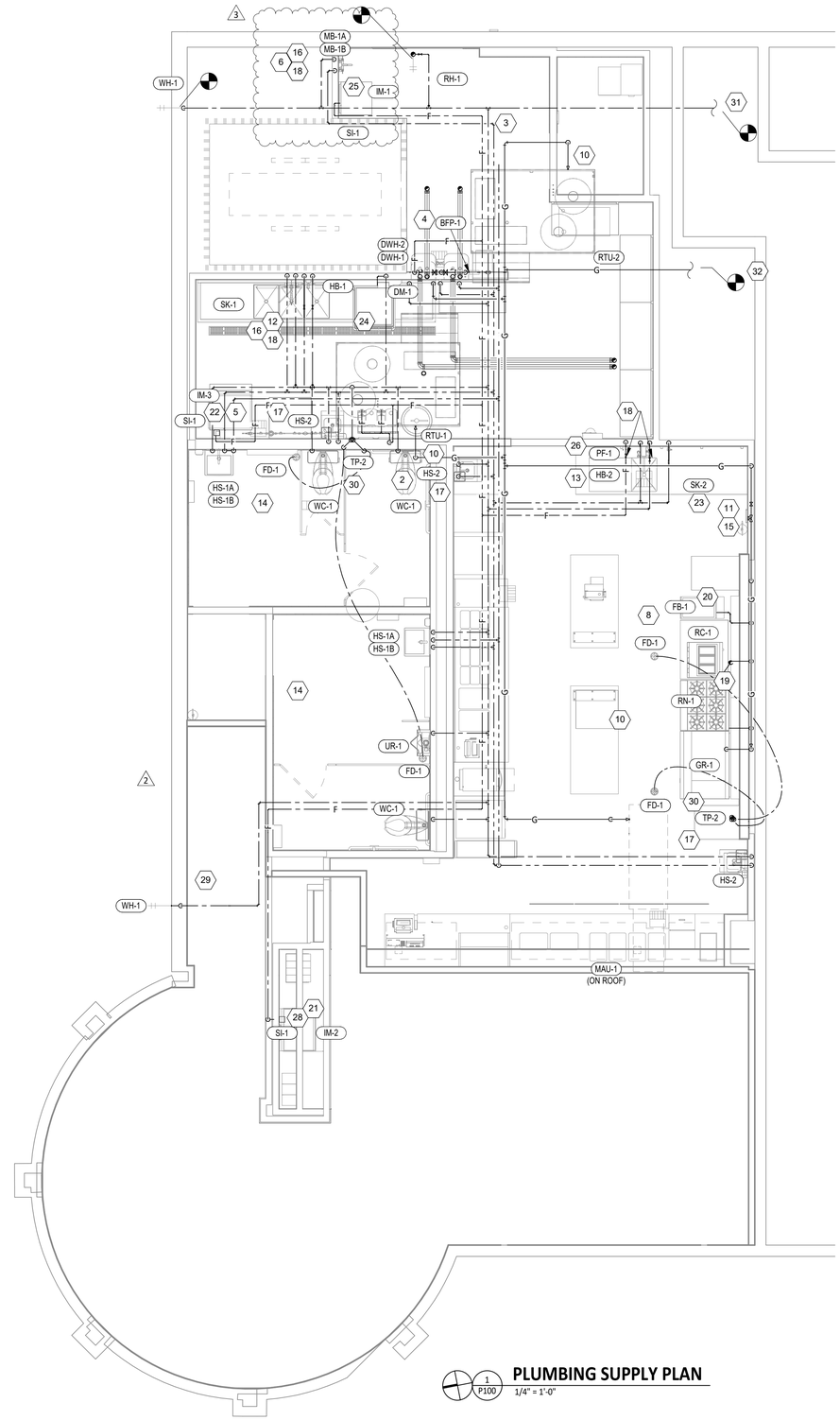
PLUMBING FIXTURE SUPPLY CONNECTIONS

ROUGH-IN TYPE KEY	
ANGLE 3/8"	BRASS CRAFT KTR19 OR EQUAL (BRASS/CHROME 1/4 TURN ANGLED BALL STOP WITH 3/8" COMPRESSION CONNECTION)
ANGLE 1/2"	BRASS CRAFT R39X C OR EQUAL (BRASS/CHROME MULTI-TURN ANGLED STOP WITH 1/2" COMPRESSION CONNECTION)
ANGLE 3/4"	EVERFLOW 74342-NL W/ 3/4" SWEAT X MIP ADAPTER OR EQUAL (BRASS ANGLE STOP W/ 3/4" FIP INLET AND OUTLET)
DIRECT	PROVIDE COPPER PIPE IN CONNECTION SIZE SHOWN TO FIXTURE
HOSE 1/2"	ARROWHEAD BRASS WM50F OR EQUAL (BRASS/CHROME WASHING MACHINE VALVE W/ 3/4" MHT OUTLET)
MIP	PROVIDE PIPE WITH MIP THREAD STUBBED OUT OF WALL IN CONNECTION SIZE SHOWN AND LENGTH COMPATIBLE WITH FIXTURE AND WALL MATERIAL/FINISHES.

TAG	DESCRIPTION	CONNECTION SIZE CW	CONNECTION SIZE HW	ROUGH-IN TYPE	WSFU CW	WSFU HW	WSFU TOTAL	COUNT	TOTAL WSFU
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	0	0	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	0"	3/4"	ANGLE 3/4"	0	3	3	1	3
ET-1	EXPANSION TANK	3/4"		DIRECT	0		0	1	0
HB-1	CHEMICAL DISPENSER HOSE BIB	1/2"	1/2"	MIP	2.25	2.25	3	2	6
HB-2	VEGETABLE WASH HOSE BIB	1/2"		MIP	1.5		1.5	1	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	2	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	3	6
IM-1	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
IM-3	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1
MB-1B	MOP SINK FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	3
PF-1	SPEED FILL FAUCET	3/8"		MIP	1.5		1.5	1	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	1		1	1	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	3	3	4	1	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	4
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	1/2"		DIRECT	0		0	2	0
UR-1	URINAL	3/4"		ANGLE 3/4"	5		5	1	5
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	2		2	3	6
WH-1	FREEZE PROOF WALL HYDRANT	3/4"		DIRECT	1		1	2	2
GRAND TOTAL									50



2 P100 **PLUMBING SUPPLY DIAGRAM**
NOT TO SCALE



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

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Project No.
230426

Contents:
PLUMBING PLAN
WATER & GAS

P100

PLUMBING FIXTURE WASTE CONNECTIONS

TAG	DESCRIPTION	CONNECTION SIZE - WASTE	DFU	COUNT	TOTAL DFU
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	5/8"	7	1	7
FCO-1	FLOOR CLEANOUT (3")	3"	0	1	0
FCO-2	FLOOR CLEANOUT (4")	4"	0	3	0
FD-1	FLOOR DRAIN	2"	2	5	10
FNL-1	FUNNEL DRAIN	2"	2	1	2
FS-1	FLOOR SINK	3"	5	8	40
HS-1A	RESTROOM HAND SINK	2"	1	3	3
HS-2	KITCHEN HAND SINK	2"	1	3	3
MB-1A	MOP BASIN	3"	2	1	2
SK-1	THREE COMPARTMENT SINK	2"	0	1	0
SK-2	PREP SINK	2"	0	1	0
TD-1	TRENCH DRAIN	2"	2	1	2
UR-1	URINAL	2"	2	1	2
WC-1	WATER CLOSET	3"	4	3	12
GRAND TOTAL					83

PLUMBING WASTE AND VENT PLAN NOTES

1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK BELOW AS SHOWN. SLOPE CONDENSATE DRAIN A MINIMUM OF 1" PER FOOT. HOLD EXPOSED CONDENSATE DRAIN IN WALK-IN COOLER AS HIGH AS POSSIBLE. CONCEAL DRAIN PIPING WITHIN FRAMED WALLS AS SHOWN. DISCHARGE THROUGH AN AIR GAP. MAKE FINAL CONNECTION TO EVAPORATOR INSIDE WALK-IN COOLER USING A UNION. CONDENSATE DRAIN SHOULD PENETRATE WALL AT POINT OF DISCHARGE AT 8" AFF.

2 PROVIDE DRAIN CONNECTIONS TO THE THREE COMPARTMENT SINK PER DETAIL 2/P700.

3 COORDINATE ROUTING OF SODA BUNDLES WITH COCA-COLA TECHNICIAN FROM BAG-IN-BOX AREA TO EACH SODA FOUNTAIN. OTHER THAN WITHIN THE WALLS DOWN TO THE DRYER BOX THE SODA BUNDLE SHALL BE ROUTED OVERHEAD WITHOUT CONDUIT. COORDINATE SUPPORT AND ROUTING OF THE SODA LINE BUNDLES WITH COCA-COLA TECHNICIAN DURING ROUGH IN AND PROVIDE NECESSARY SUPPORTS. SEE ARCHITECTURAL DRAWINGS FOR SODA BUNDLE TERMINATION LOCATION AND PROVIDE TERMINATION PER DETAIL 12/P700.

4 NOT USED.

5 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.

6 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.

7 PROVIDE GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION AND FOR CONTINUATION OF 4" GREASE WASTE PIPE TO GI-1.

8 SEE CIVIL UTILITY PLAN FOR CONTINUATION OF 4" SANITARY SEWER.

9 PROVIDE 3/4" VALVED DRAIN FROM HOT FOOD TABLE TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP.

10 PROVIDE INSULATED COPPER DRAIN LINES FROM THE TEA TRAY DRAIN AND THE SODA MACHINE DRAIN TO THE FLOOR SINK. DRAIN THROUGH AN AIR GAP. HOLD TEA TRAY DRAIN AS HIGH AS POSSIBLE AND SECURE TO STRUCTURE BELOW THE UTENSIL COUNTER.

11 TRIM TRENCH DRAIN ENDS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION SO THAT GRATE FITS WITHOUT GAPS. INSTALL TRENCH DRAIN WITH SLIGHT POSITIVE SLOPE TOWARD THE DRAIN CONNECTION TO AVOID STANDING WATER IN TRENCH DRAIN.

12 PROVIDE 2" VENT TO GREASE INTERCEPTOR GI-1. SEE CIVIL UTILITY PLAN FOR GI-1 LOCATION.

13 DO NOT PROVIDE WALL CLEANOUTS ON TILE OR PUBLICLY-VISIBLE WALLS. IF A WALL CLEANOUT IS REQUIRED ON THESE SURFACE COORDINATE THE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER.

14 PROVIDE INDIRECT WASTE AND CONDENSATE DRAINS FROM FIXTURES OTHER THAN KITCHEN SINKS CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

15 PROVIDE DRAIN FROM WATER FILTER BFP TO FLOOR SINK CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.

16 PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.

17 INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FUNNEL DRAIN. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FUNNEL.

18 PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.

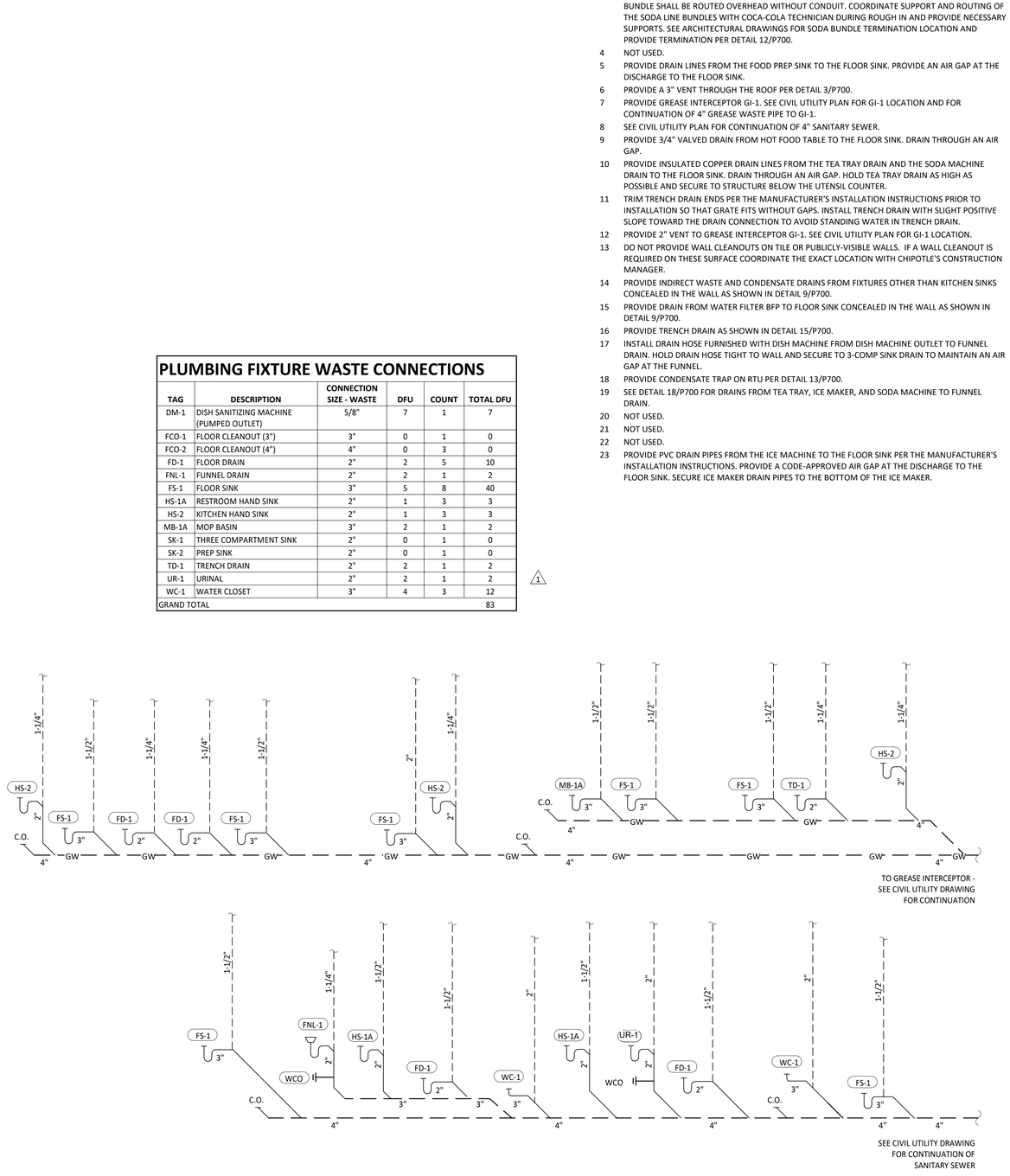
19 SEE DETAIL 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.

20 NOT USED.

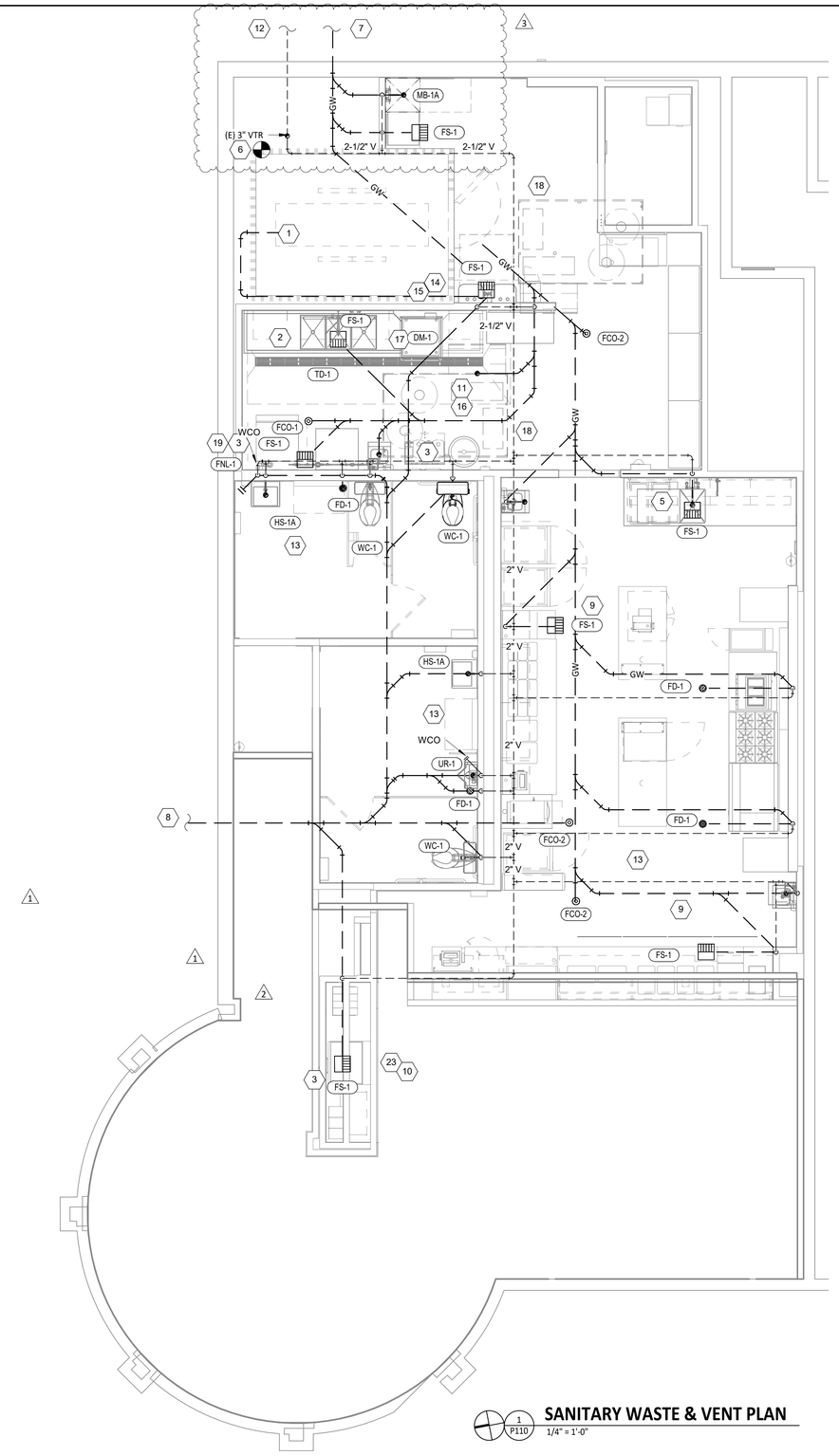
21 NOT USED.

22 NOT USED.

23 PROVIDE PVC DRAIN PIPES FROM THE ICE MACHINE TO THE FLOOR SINK PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. PROVIDE A CODE-APPROVED AIR GAP AT THE DISCHARGE TO THE FLOOR SINK. SECURE ICE MAKER DRAIN PIPES TO THE BOTTOM OF THE ICE MAKER.



2 P110 **SANITARY WASTE & VENT DIAGRAM**
NOT TO SCALE



1 P110 **SANITARY WASTE & VENT PLAN**
1/4" = 1'-0"

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Project No.
230426

Contents:
PLUMBING PLAN
WASTE & VENT

P110

PLUMBING FIXTURE SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	COUNT	CONNECTION SIZE			WATER SUPPLY FIXTURE UNITS			DRAINAGE
				MANUFACTURER	MODEL			CW	HW	WASTE	CW	HW	TOTAL	FIXTURE UNITS
BFP-1	RPZ BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			0	0	0	
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	SEE ARCH	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1	0"	3/4"	5/8"	0	3	3	7
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-5	2 GALLON CAPACITY	1	3/4"			0		0	
FB-1	GAS FRYER	KES	GC	SEE ARCH	--		1							
FCO-1	FLOOR CLEANOUT (3")	GC	GC	SIOUX CHIEF	852-3PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	1			3"				0
FCO-2	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	3	1		4"				0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN WITH PVC BODY, ROUND POLISHED METAL RING AND STRAINER, AND TRAP PRIMER PORT	5	1/2"		2"				2
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3823T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"				2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	8	1		3"				5
GR-1	GAS GRIDDLE	KES	GC	SEE ARCH	--		1							
HB-1	CHEMICAL DISPENSER HOSE BIB	KES	GC	SEE ARCH	--	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE. FAUCET HAS FEMALE NPT INLETS.	2	1/2"	1/2"		2.25	2.25	3	
HB-2	VEGETABLE WASH HOSE BIB	KES	GC	SEE ARCH	--	SILL FAUCET WITH NPT FEMALE INLET	1	1/2"			1.5		1.5	
HS-1A	RESTROOM HAND SINK	GC	GC	AMERICAN STANDARD	9024.001EC	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL. APPROVED ALTERNATE: KOHLER K-2084	3	1		2"				1
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	SEE ARCH	--	PLUG-IN AUTOMATIC FAUCET WITH 0.5 GPM AERATOR AND THERMOSTATIC MIXING VALVE. ADJUST FAUCET CONTROLS FOR 10 SECOND SHUTOFF DELAY AND 30 SECOND TIME-OUT DELAY.	2	1/2"	1/2"		1.5	1.5	2	
HS-2	KITCHEN HAND SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPLASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	3	1/2"	1/2"	2"	1.5	1.5	2	1
IM-1	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (INTEGRAL AIR COOLED)	1	1/2"			1		1	
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE (REMOTE AIR COOLED)	1	1/2"			1		1	
IM-3	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MACHINE	1	1/2"			1		1	
MB-1A	MOP BASIN	GC	GC	FIAT	MSB2424	PROVIDE 24"x24"x10" MOLDED-STONE MOP BASIN. INSTALL MOP BASIN IN A BED OF GROUT SO THERE ARE NO VOIDS BETWEEN THE MOP BASIN AND THE SLAB.	1			3"				2
MB-1B	MOP SINK FAUCET	KES	GC	SEE ARCH	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, WALL BRACE, AND NPT FEMALE INLETS	1	1/2"	1/2"		2.25	2.25	3	
PF-1	SPEED FILL FAUCET	KES	GC	SEE ARCH	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND NPT FEMALE INLET	1	3/8"			1.5		1.5	
RC-1	RICE COOKER	KES	GC	SEE ARCH	--		1							
RH-1	FREEZE PROOF ROOF HYDRANT	GC	GC	HOEPTNER	2131R	AUTOMATIC DRAINING, FREEZELESS ROOF HYDRANT WITH ANTI-SIPHON VACUUM BREAKER HOEPTNER PRODUCTS (408) 847-7615	1	3/4"			1		1	
RN-1	6 BURNER RANGE	KES	GC	SEE ARCH	--		1							
SK-1	THREE COMPARTMENT SINK	KES	GC	SEE ARCH	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	3	3	4	0
SK-2	PREP SINK	KES	GC	SEE ARCH	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0
TD-1	TRENCH DRAIN	GC	GC	ZURN	Z886 8601 8602	6" X 160" HDPE TRENCH DRAIN (SLOPED FROM 3.50" TO 4.70") WITH (2) CLOSED END CAPS, (1) 4" NO-HUB BOTTOM OUTLET, AND CLASS-A HEEL-PROOF POLYETHYLENE GRATES. SEE DETAIL ON SHEET P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1	1		2"				2
TP-2	TRAP PRIMER (TWO FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P2-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	2	1/2"			0		0	
UR-1	URINAL	GC	GC	KOHLER	K-4991-ET	ADA-ACCESSIBLE, WALL-MOUNTED, VITREOUS CHINA, WASHOUT URINAL WITH SLOAN ECOS 8186-0.25 0.25 GPF BATTERY-POWERED AUTOMATIC FLUSH VALVE. INSTALL WITH RIM AT 17" AFF.	1	3/4"		2"	5		5	2
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).	3	1/2"		3"	2		2	4
WH-1	FREEZE PROOF WALL HYDRANT	GC	GC	WOODFORD	MODEL 65	AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI-SIPHON VACUUM BREAKER. PROVIDE WITH STEM LONG ENOUGH TO REACH INSIDE THE THERMAL ENVELOPE OF THE BUILDING.	2	3/4"			1		1	

1

1

WATER HEATER CALCULATIONS

TAG	DESCRIPTION	HW WSFU	# OF FIXTURES	TOTAL WSFU
DM-1	DISH SANITIZING MACHINE	3	1	3
HB-1	CHEMICAL DISPENSER HOSE BIB	2.5	1	2.5
HS-1B	RESTROOM HAND SINK FAUCET	1	2	2
HS-2	KITCHEN HAND SINK	1	3	3
MB-1B	MOP SINK FAUCET	1.5	1	1.5
SK-1	THREE COMPARTMENT SINK	1.5	1	1.5
SK-2	PREP SINK	1.5	1	1.5
	GRAND TOTAL HOT WATER FIXTURE UNITS			15
	GPM			11
	GPM PROVIDED BY WATER HEATERS @ 67 DEGREE RISE			11.2

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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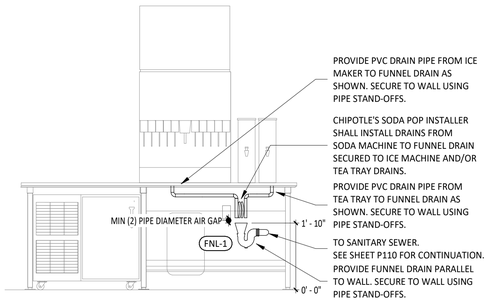
Project No.

230426

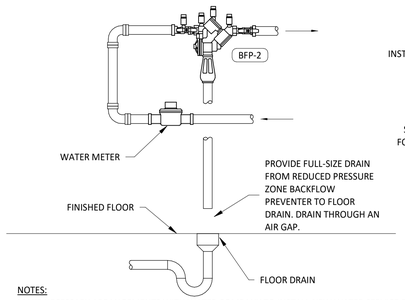
Contents:

PLUMBING SCHEDULES

P600

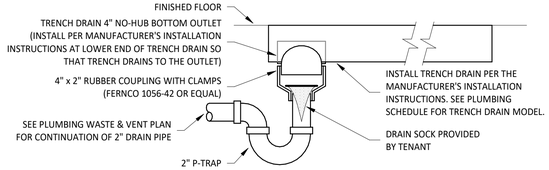


18 / P700 PUW FUNNEL DRAIN DETAIL
NOT TO SCALE



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

16 / P700 WATER SERVICE ENTRY DETAIL
NOT TO SCALE



15 / P700 TRENCH DRAIN DETAIL
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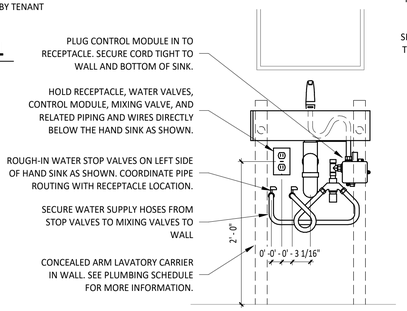

14 / P700 RESTROOM HAND SINK DETAIL
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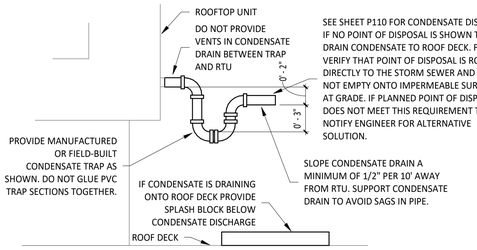

13 / P700 RTU CONDENSATE TRAP DETAIL
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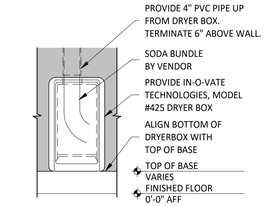

12 / P700 SODA TERMINATION DETAIL
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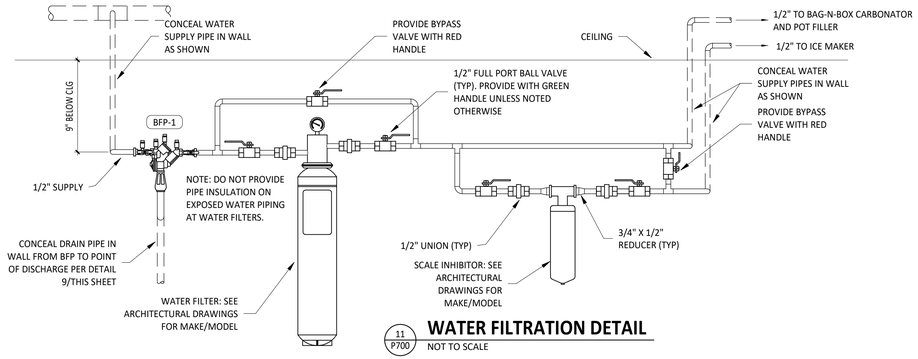

11 / P700 WATER FILTRATION DETAIL
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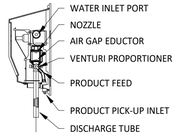

10 / P700 CHEMICAL DISPENSER DETAIL
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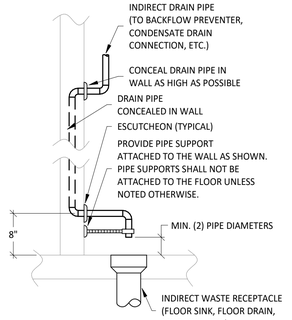
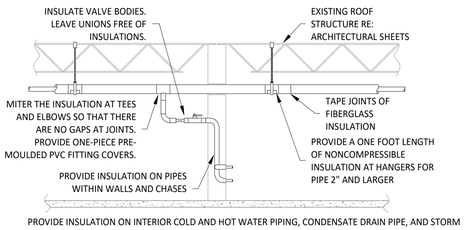
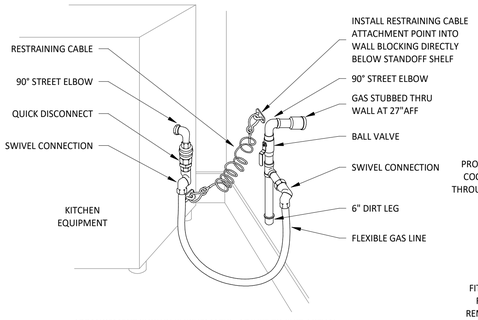


9 / P700 INDIRECT WASTE PIPING DETAIL
NOT TO SCALE



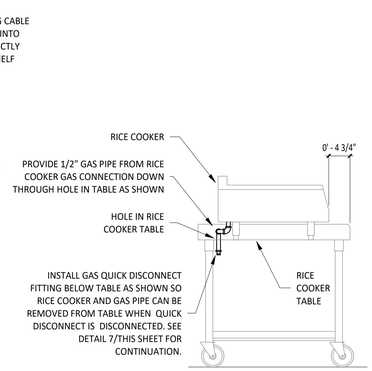
PROVIDE INSULATION ON INTERIOR COLD AND HOT WATER PIPING, CONDENSATE DRAIN PIPE, AND STORM PIPE. REFER TO SPECIFICATIONS FOR FURTHER INFORMATION REGARDING INSULATION. INSTALL ITEMS PER SPECIFICATIONS AND MANUFACTURER'S INSTRUCTIONS. MAINTAIN VAPOR BARRIER ON COLD WATER AND CONDENSATE PIPING BY MEANS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

8 / P700 PIPE INSULATION DETAIL
NOT TO SCALE

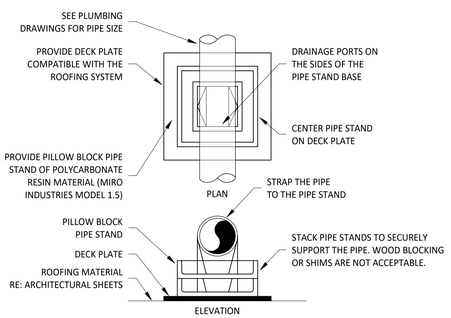


ARRANGEMENT SHOWN IS SCHEMATIC. ADJUST TO SUIT ACTUAL CONDITIONS. MAKE FINAL CONNECTION TO EQUIPMENT AS RECOMMENDED BY MANUFACTURER. PROVIDE WELDED FITTINGS/JOINTS IN ANY CONCEALED, UNSLEEVED LOCATION.

7 / P700 KITCHEN GAS EQUIPMENT DETAIL
NOT TO SCALE

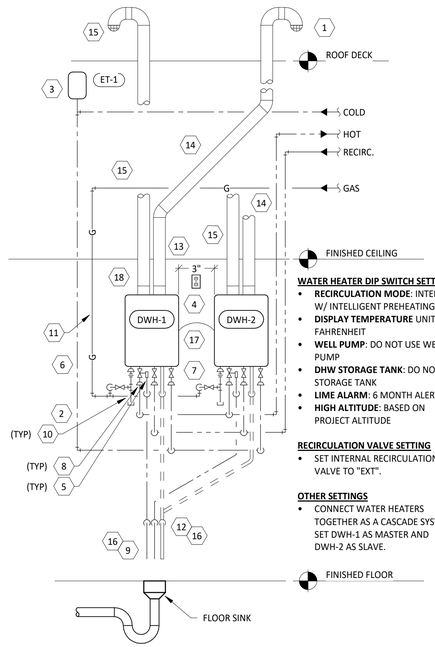


6 / P700 RICE COOKER GAS CONNECTION DETAIL
NOT TO SCALE



PROVIDE PIPE STANDS AS SHOWN FOR STEEL PIPE FROM 1/2" TO 1-1/2" DIAMETER. SUPPORT SPACING FOR PIPE SIZE: 1/2"=6'; 3/4"-1"=8'; 1 1/4" AND LARGER=10'; PROVIDE DECK PLATES ON ROOFING AND SET PIPE STAND FREE ON DECK PLATES. STACK PIPE STAND WHERE REQUIRED TO ELEVATE PIPING. INSTALL GAS PIPE TO ALLOW FOR EXPANSION AND CONTRACTION.

5 / P700 ROOFTOP PIPING SUPPORT
NOT TO SCALE



WATER HEATER DIP SWITCH SETTINGS
- **RECIRCULATION MODE**: INTERNAL W/ INTELLIGENT PREHEATING
- **DISPLAY TEMPERATURE** UNIT: FAHRENHEIT
- **WELL PUMP**: DO NOT USE WELL PUMP
- **DHW STORAGE TANK**: DO NOT USE STORAGE TANK
- **LIME ALARM**: 6 MONTH ALERT
- **HIGH ALTITUDE**: BASED ON PROJECT ALTITUDE

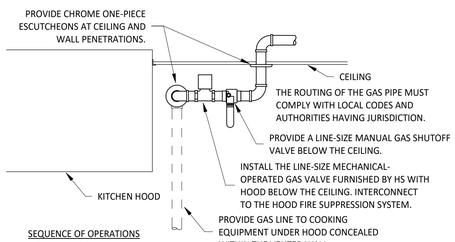
RECIRCULATION VALVE SETTING
- SET INTERNAL RECIRCULATION VALVE TO "EXT".

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

WATER HEATER DETAIL NOTES
1. PROVIDE TWO 90° ELBOWS AND A SCREEN FOR THE FLUE TERMINATION THROUGH THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
2. ROUGH-IN COLD, HOT, AND RECIRC PIPES AT 64" AND GAS PIPE AT 61" BELOW THE FINISHED CEILING.
3. PROVIDE EXPANSION TANK ET-1 AS SHOWN. SUPPORT TANK FROM WALL OR STRUCTURE ABOVE.
4. PROVIDE WATER HEATER RECEPTACLE WITHIN 12" OF THE FINISHED CEILING. FASTEN CORD TIGHT TO THE WALL.
5. PROVIDE PRESSURE RELIEF VALVE. PIPE PRESSURE RELIEF VALVE TO POINT OF DISCHARGE.
6. CONCEAL WATER PIPING WITHIN THE WALL AS SHOWN. INSULATE CONCEALED WATER PIPING. DO NOT PROVIDE INSULATION ON EXPOSED WATER PIPING AT WATER HEATER.
7. INTALL "PLUMB EASY VALVE SET" EXPOSED AT THE COLD AND HOT WATER CONNECTIONS TO THE WATER HEATER AS SHOWN.
8. IF THE PIPE SIZES AS SHOWN ON THE PLUMBING PLANS IS LARGER THAN THE WATER HEATER CONNECTIONS SIZES, PROVIDE REDUCERS WITHIN 6" OF THE WATER HEATER.
9. PIPE PRESSURE RELIEF VALVE DISCHARGE AND FLUE CONDENSATE DRAIN TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
10. PROVIDE AN EXPOSED DRIP LEG AND LINE-SIZE GAS VALVE ON THE GAS SERVICE TO THE WATER HEATER.
11. CONCEAL GAS PIPING IN THE WALL AS SHOWN.
12. PROVIDE 1/2" PVC PIPE FROM THE FLUE CONDENSATE CONNECTION TO THE POINT OF DISCHARGE. DRAIN THROUGH AN AIR GAP.
13. INSTALL THE TANKLESS WATER HEATER WITH THE TOP OF THE WATER HEATER BETWEEN 9" & 12" OF THE FINISHED CEILING.
14. PROVIDE A 2"Ø PVC PIPE FROM THE TANKLESS WATER HEATER TO THE POINT OF DISCHARGE. SLOPE HORIZONTAL SECTION OF THE FLUE 1/4" PER FOOT TOWARDS THE WATER HEATER.
15. PROVIDE A SCREENED AIR INTAKE WITH TWO 90° ELBOWS ABOVE THE ROOF PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
16. CONCEAL DRAIN LINES IN WALL PER DETAIL 9/THIS SHEET.
17. PROVIDE COMMUNICATION CABLE CONCEALED IN WALL BETWEEN WATER HEATERS.
18. IF WATER HEATERS ARE INSTALLED WITH A COMMON VENT SYSTEM THEN PROVIDE THE NAVIEN COMMON VENT COLLAR KIT WITH BACK-DRAFT DAMPER PER THE MANUFACTURER'S INSTALLATION MANUAL.

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

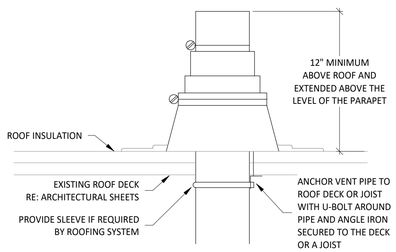
1 / P700 WATER HEATER DETAIL
NOT TO SCALE



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

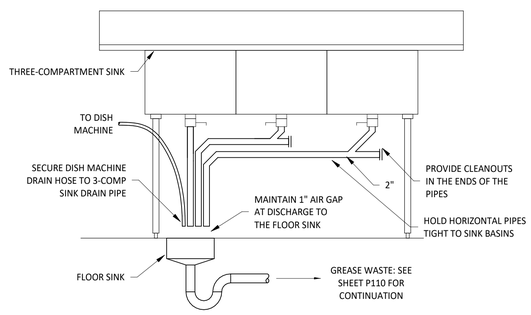
EMERGENCY MODE:
- UPON ACTUATION OF THE HOOD FIRE SUPPRESSION SYSTEM THE GAS SHUT-OFF VALVE SHALL CLOSE.

4 / P700 KITCHEN GAS SHUTOFF DETAIL
NOT TO SCALE



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, AND ONE FOOT FROM ANY VERTICAL SURFACE. PROVIDE 1" FIBERGLASS INSULATION WITH ALL-SERVICE JACKET ON VENT PIPE INSIDE BUILDING WITHIN SIX FEET OF VENT THRU ROOF LOCATION. FLASHING AND COUNTER FLASHING ARE TO BE COMPATIBLE WITH THE ROOFING SYSTEM.

3 / P700 VENT THROUGH ROOF
NOT TO SCALE



2 / P700 WARE-WASHING SINK DETAIL
NOT TO SCALE

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Project No.
230426

Contents:
PLUMBING DETAILS

P700

SECTION 16011 TEMPORARY & PERMANENT ELECTRICAL SERVICE
PART 1 GENERAL
1.1 DEFINITIONS
A. GFCI: Ground fault current interrupter.
B. RMS: Root Mean Square
C. SPDT: Single Pole, Double Throw
1.2 USE CHARGES
A. General: Cost or use charges for temporary facilities are not chargeable to Tenant, Architect, or Engineer and shall be included in the Contract Sum. Allow other entities to use temporary services and facilities without cost, including, but not limited to, the following:
1. Tenant's construction forces.
2. Occupants of Project.
3. Architect.
4. Engineer.
5. Testing agencies.
6. Personnel of authorities having jurisdiction.
B. Permanent Service: Coordinate with building Tenant and utility company to establish permanent service upon completion of the project. Contractor shall pay for all permits, aid-to-construction charges, and related fees associated with the new service.
1.3 NOTIFICATION
A. Coordinate with Tenant to provide 72 hour written notification to other tenants of any power interruptions. Notification shall state the estimated time and duration of the electrical outage.
1.4 QUALITY ASSURANCE
A. Standards: Comply with ANSI A10.6, NECA's "Temporary Electrical Facilities," and NFPA 241.
1. Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
2. Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
3. Comply with OSHA standards and regulations.
PART 2 PRODUCTS
2.1 MATERIALS
A. Electrical Outlets: Properly configured, NEMA-polarized outlets to prevent insertion of 110- to 120-V plugs into higher-voltage outlets; equipped with ground-fault circuit interrupters, reset button, and pilot light.
B. Power Distribution System Circuits: Where permitted and overhead and exposed for surveillance, wiring circuits, not exceeding 125-V ac, 20-A rating, and lighting circuits may be nonmetallic sheathed cable.
C. Main panelboard with disconnect.
D. Temporary lighting.
E. 120 volt receptacles with overcurrent protection.
F. Enclosures. NEMA AB 1 and NEMA KS 1 to meet environmental conditions of installed location.
1. Outdoor Locations: NEMA 250, Type 3R.
PART 3 EXECUTION
3.1 INSTALLATION
A. Electric Power Service: Provide weatherproof, grounded electric power service and distribution system of sufficient size, capacity, and power characteristics during construction period. Include meters, transformers, and overload-protected disconnecting means.
1. Install power distribution wiring overhead and rise vertically where least exposed to damage.
B. Electric Distribution: Provide receptacle outlets adequate for connection of power tools and equipment.
1. Provide waterproof connectors to connect separate lengths of electrical power cords if single lengths will not reach areas where construction activities are in progress. Do not exceed safe length-voltage ratio.
2. Provide metal conduit, tubing, or metallic cable for wiring exposed to possible damage. Provide rigid steel conduits for wiring exposed on grades, floors, decks, or other traffic areas.
3. Provide metal conduit enclosures or boxes for wiring devices.
4. Provide 4-gang outlets, spaced so 1 DO-foot (30-m) extension cord can reach each area for power hand tools and task lighting. Provide a separate 125-V ac, 20-A circuit for each outlet.
C. Lighting: Provide temporary lighting with local switching that provides adequate illumination for construction operations and traffic conditions.
1. Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
2. Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
3. Install exterior-yard site lighting that will provide adequate illumination for construction operations, parking and traffic conditions, and signage visibility when the Work is being performed.
END OF SECTION 16011

SECTION 16060 - GROUNDING AND BONDING
PART 1 - GENERAL
1.1 SUMMARY
A. This Section includes grounding of electrical systems and equipment. Grounding requirements specified in this Section may be supplemented by special requirements of systems described in other Sections.
1.2 QUALITY ASSURANCE
A. Testing Agency Qualifications: Testing agency as defined by OSHA in 29 CFR 1910.7 or a member company of the International Electrical Testing Association and that is acceptable to authorities having jurisdiction.
1. Testing Agency's Field Supervisor: Person currently certified by the International Electrical Testing Association to supervise on-site testing specified in Part 3.
B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction, and marked for intended use.
1. Comply with UL 467.
PART 2 - PRODUCTS
2.1 GROUNDING CONDUCTORS
A. For insulated conductors, comply with Division 16 Section "Wiring Methods."
B. Material: Copper.
C. Equipment Grounding Conductors: Insulated with green-colored insulation.
D. Grounding Electrode Conductors: Stranded cable.
E. Bare Copper Conductors: Comply with the following:
1. Solid Conductors: ASTM B 3.
2. Assembly of Stranded Conductors: ASTM B 8.
2.2 CONNECTOR PRODUCTS
A. Comply with IEEE 837 and UL 467; listed for use for specific types, sizes, and combinations of conductors and connected items.
PART 3 - EXECUTION
3.1 APPLICATION
A. Use only copper conductors.
B. In raceways, use insulated equipment grounding conductors.
C. Equipment Grounding Conductor Terminations: Use bolted pressure clamps.
D. Grounding Bus: Install in electrical and telephone equipment rooms, in rooms housing service equipment, and elsewhere as indicated.
1. Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
2. At doors, route the bus up to the top of the door frame, across the top of the doorway, and down to the specified height above the floor.
3.2 EQUIPMENT GROUNDING CONDUCTORS
A. Comply with NFPA 70, Article 250, for types, sizes, and quantities of equipment grounding conductors, unless specific types, larger sizes, or more conductors than required by NFPA 70 are indicated.
3.3 INSTALLATION
A. Grounding Conductors: Route along shortest and straightest paths possible, unless otherwise indicated. Avoid obstructing access or placing conductors where they may be subjected to strain, impact, or damage.
3.4 CONNECTIONS
A. General: Make connections so galvanic action or electrolysis possibility is minimized. Select connectors, connection hardware, conductors, and connection methods so metals in direct contact will be galvanically compatible.
B. Equipment Grounding Conductor Terminations: For No. 8 AWG and larger, use pressure-type grounding lugs. No. 10 AWG and smaller grounding conductors may be terminated with winged pressure-type connectors.
C. Tighten screws and bolts for grounding and bonding connectors and terminals according to manufacturer's published torque-tightening values. If manufacturer's torque values are not indicated, use those specified in UL 486A.
D. Compression-Type Connections: Use hydraulic compression tools to provide correct circumferential pressure for compression connectors. Use tools and dies recommended by connector manufacturer. Provide embossing die code or other standard method to make a visible indication that a connector has been adequately compressed on grounding conductor.
END OF SECTION 16060

SECTION 16100 - WIRING METHODS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Summary: Building wire and cable and associated splices, connectors, and terminations for wiring systems rated 600 V and less, and twisted-pair cable; and raceways and boxes.
PART 2 - PRODUCTS
2.1 WIRES AND CABLES
A. Connectors and Splices: Wiring connectors of size, ampacity rating, material, and type and class for application and for service indicated.
2.2 RACEWAYS
A. Wireways: Screwed cover type, with manufacturers standard finish.
B. Outlet and Device Boxes: Sheet metal boxes, except use cast-metal boxes at exterior, interior exposed, and interior damp locations.
C. Pull and Junction Boxes: Sheet metal boxes, except use nonmetallic boxes with gasketed covers at exterior and interior damp locations.
2.3 ENCLOSURES
A. Hinged-Cover Enclosures: NEMA 250, steel enclosure with continuous hinge cover and flush latch. Finish inside and out with manufacturer's standard enamel.
B. Cabinets: NEMA 250, Type 1, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install wires and cables according to the NECA's "Standard of Installation.
B. Wiring at Outlets: Install with at least 12 inches of slack conductor at each outlet.
C. Conceal wiring, unless otherwise indicated, within finished walls, ceilings, and floors.
D. Boxes and Enclosures: In damp or wet locations use NEMA 250, Type 4, stainless steel.
E. Use raceway fittings compatible with raceway and suitable for use and location. For intermediate metal conduit, use threaded rigid steel conduit fittings, unless otherwise indicated.
F. Raceways Embedded in Slabs: Install in middle third of the slab thickness where practical, and leave at least 1 -inch concrete cover.
G. Install exposed raceways parallel to or at right angles to nearby surfaces or structural members, and follow the surface contours as much as practical.
H. Join raceways with fittings designed and approved for the purpose and make joints tight. Use bonding bushings or wedges at connections subject to vibration. Use bonding jumpers where joints cannot be made tight. Use insulating bushings to protect conductors.
I. Install pull wires in empty raceways. Use No. 14 AWG zinc-coated steel or monofilament plastic line having not less than 200-lb tensile strength. Leave not less than 18 inches of slack at each end of the pull wire.
J. Install raceway sealing fittings where required by the NEC and at wiring entrances to refrigerated spaces. Locate at suitable, approved, accessible locations and fill them with UL-listed sealing compound. For concealed raceways, install each fitting in a flush steel box with a blank cover plate having a finish similar to that of adjacent plates or surfaces.
K. Stub-up Connections for Equipment: Extend conductors to equipment with rigid metal conduit; flexible metal conduit may be used 3 inches above the floor.
L. Install a separate green ground conductor in surface metal raceway from the junction box supplying the raceway to receptacle and fixture ground terminals.
3.2 IDENTIFICATION MATERIALS AND DEVICES
A. Install at locations for most convenient viewing without interference with operation and maintenance of equipment.
B. Coordinate names, abbreviations, colors, and other designations used for electrical identification with corresponding designations indicated in the Contract Documents or required by codes and standards. Use consistent designations throughout Project.
C. Identify raceways and cables with color banding as follows:
1. Bands: Pretensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
2. Band Locations: At changes in direction, at penetrations of walls and floors, at 50-foot maximum intervals in straight runs, and at 25-foot maximum intervals in congested areas.
3. Colors: As follows:
a. Telecommunication System: Green and yellow.
D. Color-code System secondary service, feeder, and branch-circuit conductors throughout the secondary electrical system as follows:

		120/208V	277/480V
1.	Phase A:	Black	Brown
2.	Phase B:	Red	Orange
3.	Phase C:	Blue	Yellow
4.	Neutral:	White	Gray
5.	Ground:	Green	Green

END OF SECTION 16100

SECTION 16140 - WIRING DEVICES
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NEMA WD 1.
C. Comply with NFPA 70.
PART 2 - PRODUCTS
2.1 DEVICES
A. General: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
B. Color: Per Material Schedule on sheet E010.
C. Receptacles: Heavy- Duty grade, NEMA WD6, Configuration 5-20R unless otherwise indicated.
D. Ground-Fault Circuit Interrupter Receptacles: integral duplex receptacle; for installation in box without an adapter. Feed-through type, with a 2-3/4-inch- deep outlet
E. Isolated-Ground Receptacles: Equipment grounding contacts connected only to the green grounding screw terminal of the device with inherent electrical isolation from mounting strap.
F. Snap Switches: Heavy-duty, quiet type.
G. Wall Plate: Per Material Schedule on sheet E010.
H. Floor Service Fittings: Modular, above-floor, dual-service units suitable for wiring method used.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install devices and assemblies plumb and secure.
B. Mount devices flush with long dimension vertical unless otherwise indicated.
C. Protect devices and assemblies during painting.
D. Install wall plates when painting is complete and paint is cured.
END OF SECTION 16140

BUILDING CODE DATA

	CODE	
GENERAL	CALIFORNIA BUILDING CODE	2022
HVAC/MECHANICAL	CALIFORNIA MECHANICAL CODE	2022
PLUMBING	CALIFORNIA PLUMBING CODE	2022
ELECTRICAL	CALIFORNIA ELECTRICAL CODE	2022
FIRE PROTECTION	CALIFORNIA FIRE CODE	2022
	NFPA STANDARDS	CURRENT
FUEL	CALIFORNIA PLUMBING CODE	2022
ENERGY	CALIFORNIA ENERGY CODE	2022
LOCAL AMENDMENTS	ARTICLE VI - BUILDING REGULATIONS - AMENDMENTS	CURRENT

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

SECTION 16442 - PANELBOARDS
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Comply with NFPA 70.
C. Comply with NEMA PB 1.
PART 2 - PRODUCTS
2.1 PANELBOARDS AND LOAD CENTERS
A. Manufacturers: Subject to compliance with requirement, provide products by one of the following:
1. Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
a. Square D Co.
b. Eaton Corp.; Cutler-Hammer Products.
c. General Electric Co.; Electrical Distribution & Control Div.
d. Siemens Energy & Automation.
B. Recessed, NEMA PB 1, Type 1.
1. Load Center Capacity: as shown on drawings.
2. Front: Secured to box with concealed trim clamps.
3. Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
4. Bus: Hard drawn copper of 98 percent conductivity.
C. Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multipole circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
D. Contactors: NEMA ICS 2, Class A combination contactors.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Install panelboards and accessory items according to NEMA PB 1.1. Provide typed, permantently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
F. Perform visual and mechanical inspections and electrical tests stated in NETA ATS.
END OF SECTION 16442

SECTION 16500 - LIGHTING
PART 1 - GENERAL
1.1 SECTION REQUIREMENTS
A. Submittals: None.
B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted In ceiling space and on ceiling.
PART 2 - PRODUCTS
2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL
A. Metal Parts: Free from burrs, sharp corners, and edges. Steel, unless otherwise indicated. Form and support to prevent warping and sagging.
B. Doors, Frames, and Other Internal Access: Smooth operating, free from light leakage under operating conditions, and arranged to permit re-lamping without use of tools. Arrange doors, frames, lenses, diffusers, and other pieces to prevent accidental falling during re-lamping and when secured in operating position.
C. Lenses, Diffusers, Covers, and Globes: 100 percent virgin acrylic plastic or annealed crystal glass, unless otherwise indicated.
PART 3 - EXECUTION
3.1 INSTALLATION
A. Set units level, plumb, and square with ceiling and walls, and secure.
B. Support for Recessed and Semirecessed Grid-Type Fluorescent Fixtures: Install ceiling support system rods or wires at a minimum of 4 rods or wires for each fixture, located not more than 6 inches from fixture corners.
C. Support for Suspended Fixtures: Support according to manufacturers' recommendations.
D. Lamping: Where specific lamp designations are not indicated, lamp units according to manufacturer's written instructions.
END OF SECTION 16500

ELECTRICAL SYMBOLS

- CONDUIT CONCEALED ABOVE THE CEILING, IN A WALL, OR IN A RACEWAY
- CONDUIT CONCEALED BELOW THE SLAB
- A-6 — HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
- # — PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
- X/Y/Z — DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
- JUNCTION BOX
- ELECTRIC PANELBOARD
- $ — GENERAL PURPOSE 1-POLE SWITCH
- $M — MANUAL STARTER WITH PILOT LIGHT
- NEMA 5-20R 1-PLEX RECEPTACLE
- NEMA 5-20R DUPLEX RECEPTACLE
- NEMA 5-20R DUPLEX GFCI RECEPTACLE
- NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
- IG/GFI — NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#2095IGTRGRY (GRAY)
- OTHER RECEPTACLE - SEE PLAN FOR RATING AND TYPE
- JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- DOUBLE GANG JUNCTION BOX FOR RJ-45 DATA OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- JUNCTION BOX FOR RJ-11 TELEPHONE OUTLETS. PROVIDE 1" CONDUIT WITH PULL STRING FROM J-BOX TO ABOVE OFFICE CEILING. TERMINATE CONDUIT WITH CONDUIT BUSHING.
- KP — SECURITY SYSTEM KEYPAD: SEE ELECTRICAL POWER PLAN FOR MORE INFORMATION.

ELECTRICAL GENERAL NOTES

A GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
B ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
C WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
D INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
E CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
F INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
G INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
H PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
I THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
J DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
K INSTALL LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES ON WALL IMMEDIATELY ABOVE RECEPTACLES.

ELECTRICAL MATERIAL SCHEDULE

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

ELECTRICAL ABBREVIATIONS

(E)	EXISTING
ABV	ABOVE
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
BFF	BELOW FINISHED FLOOR
BFG	BELOW FINISHED GRADE
BOH	BACK OF HOUSE
CLG	CEILING
CTE	CONNECT TO EXISTING
DN	DOWN
EXT'G	EXISTING
FLR	FLOOR
FOH	FRONT OF HOUSE
GFCI	GROUND FAULT CURRENT INTERRUPTER
GYP	GYPSUM BOARD
IG	ISOLATED GROUND
NF	NON-FUSED
NL	NIGHT LIGHT
NTS	NOT TO SCALE
O/H	OVERHEAD
TYP	TYPICAL
U/G	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
W/	WITH
WIC	WALK-IN COOLER
WP	WEATHERPROOF
CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
LL	LANDLORD
MSS	TENANT'S MUSIC SYSTEMS SUPPLIER
SPS	TENANT'S SODA POP SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SNAITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF A RESTAURANT TENANT FINISH OF AN EXISTING BUILDING AND TENANT SPACE. THE NEW ELECTRICAL WORK INCLUDES, ELECTRICAL PANELBOARD(S), ROOF TOP HVAC EQUIPMENTS, POWER, GENERAL LIGHTING, GENERAL POWER FOR DINING AREA AND SPECIALTY POWER FOR THE KITCHEN AND PREPARATION AREAS. THERE IS ALSO A NEW HOOD POWER AND ANSUL SYSTEM.

BASIC LIFE-SAFETY INFRINGEMENT STATEMENT

IT IS THE DESIGN PROFESSIONAL'S JUDGEMENT, WHOSE SIGNATURE APPEARS ON THE DRAWING, THAT THE DESIGN DESCRIBED IN THIS SET OF DRAWINGS AND SPECIFICATIONS DOES NOT ADVERSELY INFRINGE ON THE BASIC LIFE-SAFETY SYSTEM OF THE BUILDING.

ENGINEER OF RECORD: _____ DATE: 06/04/2024

Consultant:
Bowman
323 3RD AVENUE, #100
LONGMONT, CO 80501
TEL 303-678-1108
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Issue Record:
02/29/2024 PERMIT SET
07/24/2024 IFC SET

A Revisions:

Drawn: MN | PM: BE | CC: WS | Checked: AE

Project No. 230426

Contents: ELECTRICAL SPECIFICATIONS

E010

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
This document is used to demonstrate compliance with requirements in 110.9, 110.12(c), 130.0, 130.1, 140.6 and 141.0(b)2 for indoor lighting scopes using the prescriptive path for nonresidential and hotel/motel occupancies. It is also used to document compliance with requirements in 160.5, 170.2(e) and 180.2(b)4 for indoor lighting scopes using the prescriptive path for multifamily occupancies. Multifamily includes dormitory and senior living facilities.		
Project Name: CMG Richmond, CA	**Report Page:**	**(Page 1 of 8)**
Project Address:	**Date Prepared:**	2024-07-24T10:30:41-04:00

A. GENERAL INFORMATION

01	Project Location (city)	Richmond	04	Total Conditioned Floor Area (ft²)	2,587
02	Climate Zone	3	05	Total Unconditioned Floor Area (ft²)	0
03	Occupancy Types Within Project (select all that apply):		06	# of Stories (Habitable Above Grade)	1
● Restaurant					

B. PROJECT SCOPE

This table includes any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in 140.6 / 170.2(e) or 141.0(b)2 / 180.2(b)4 for alterations.

Scope of Work	Conditioned Spaces		Unconditioned Spaces	
01	02	03	04	05
My Project Consists of (check all that apply):	Calculation Method	Area (ft²)	Calculation Method	Area (ft²)
☒ New Lighting System	Complete Building Method	2587	N/A	0
☐ New Lighting System - Parking Garage	N/A	0	N/A	0
Total Area of Work (ft²)	2587			

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C. COMPLIANCE RESULTS

If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.

Lighting in conditioned and unconditioned spaces must not be combined for compliance per 140.6(b)1 / 170.2(e)	Allowed Lighting Power per 140.6(b) / 170.2(e) (Watts)						Adjusted Lighting Power per 140.6(a) / 170.2(e) (Watts)				Compliance Results
	01	02	03	04		05	06	07 Adjustments		08	09
	Complete Building 140.6(c)1	Area Category 140.6(c)2 / 170.2(e)4	Area Category Additional 140.6(c)2G / 170.2(e)4Av (+)	Tailored 140.6(c)3 / 170.2(e)4B (+)		**Total Allowed** (Watts)	Total Designed (Watts)	PAF Lighting Control Credits 140.6(a)2 / 170.2(e)1B (-)		**Total Adjusted** (Watts) *Includes Adjustments	**05 must be >= 08 140.6 / 170.2(e)**
	(See Table I)	(See Table I)	(See Table J)	(See Table K)			(See Table F)	(See Table P)			
Conditioned	1,681.55				=	1,681.55	≥ 1,399		=	1399	COMPLIES
Unconditioned					=		≥		=		
Controls Compliance (See Table H for Details)											COMPLIES
Rated Power Reduction Compliance (See Table Q for Details)											

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

Track Lighting has been included in this project, details are provided in Table G.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

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F. INDOOR LIGHTING FIXTURE SCHEDULE

This table includes all planned permanent and portable lighting other than dwelling unit/ hotel/ motel room lighting. Multifamily dwelling unit and hotel/motel room lighting is documented in Table T. If using Table T to document lighting in multifamily common use areas providing shared provisions for living, eating, cooking or sanitation, those luminaires are not included here.

Designed Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	10 Field Inspector	
Name or Item Tag	Complete Luminaire Description	Modular (Track) Fixture	Small Aperture & Color Change[1]	Watts per luminaire[2]	How is Wattage determined	Total Number of Luminaires	Excluded per 140.6(a)3 / 170.2(e)2C	Design Watts	Pass	Fail
A1	2x2 LED LENSED TROFFER	No	NA	30	Mfr. Spec	8	No	240	☐	☐
B1, B2	RECESSED 6IN CAN LIGHT	No	NA	17	Mfr. Spec	32	No	544	☐	☐
B3	RECESSED 6IN CAN LIGHT	No	NA	12	Mfr. Spec	3	No	36	☐	☐
C0	LOW PROFILE LED - 1 FT	No	NA	5	Mfr. Spec	2	No	10	☐	☐
C2	LOW PROFILE LED - 3 FT	No	NA	12	Mfr. Spec	13	No	156	☐	☐
C3	LOW PROFILE LED - 4 FT	No	NA	15	Mfr. Spec	5	No	75	☐	☐
H1	VAPOR PROOF HOOD LIGHT	No	NA	15	Mfr. Spec	8	Exempt	---	☐	☐
J4	DECORATIVE PENDANT	No	NA	9	Mfr. Spec	2	No	18	☐	☐
P5	PENDANT	No	NA	5	Mfr. Spec	18	No	90	☐	☐
P6	DECORATIVE DINING ROOM PENDANT	No	NA	30	Mfr. Spec	1	No	30	☐	☐
TCL-0.5	CURRENT LIMITER	Yes	NA	60	See Other Section	2	No	120	☐	☐
W1	WIC LED LIGHT	No	NA	29	Mfr. Spec	4	Exempt	---	☐	☐
S3	ACCENT ARTWORK LIGHT	No	NA	20	Mfr. Spec	4	No	80	☐	☐
							Total Designed Watts: CONDITIONED SPACES	1,399		

[1]*FOOTNOTE: Design Watts for small aperture and color changing luminaires which qualify per 140.6(a)4B / 170.2(e)2D is adjusted to be 75% /80% of their rated wattage. Table F automatically makes this adjustment, the permit applicant should enter full rated wattage in column 05.*

[2]*Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per 130.0(c) / 160.5(b). Wattage used must be the maximum rated for the luminaire, not the lamp.*

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G. MODULAR LIGHTING SYSTEMS

This table calculates wattage for modular lighting systems/ track lighting fixtures indicated on Table F and transfers wattage to Table F.

01	02	03							04
Name or Item Tag	Complete Track Description	Calculation Method per 130.0(c)6							Track Wattage
TCL-0.5	CURRENT LIMITER	☐	i Installed Luminaires vs Default 30 W/ft	☒	ii Current Limiter	☐	iii Overcurrent Protection Panel	☐ iv Power supplied by driver, power supply or transformer[1]	
		VA of current limiter							60
		60							

[1]*FOOTNOTE: For power-over-Ethernet lighting systems, power provided to installed non-lighting devices may be subtracted from the total power rating of the power-over-Ethernet system.*

H. INDOOR LIGHTING CONTROLS (Not including PAFs)

This table includes lighting controls for conditioned and unconditioned spaces.

Building Level Controls

01	02	03 Field Inspector	
Mandatory Demand Response 110.12(c)	Shut-off controls 130.1(c) / 160.5(b)4C	Pass	Fail
NA < 4,000W subject to multilevel	See Area/Space Level Controls	☐	☐

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H. INDOOR LIGHTING CONTROLS (Not including PAFs)

Area Level Controls

04	05	06	07	08	09	10	11	12 Field Inspector	
Area Description	Complete Building or Area Category Primary Function Area	Manual Area Controls 130.1(a) / 160.5(b)4A	Multi-Level Controls 130.1(b) / 160.5(b)4B	Shut-Off Controls 130.1(c) // 160.5(b)4C	Primary/Sky lit Daylighting 130.1(d) / 160.5(b)4D	Secondary Daylighting 130.1(d) / 160.5(b)4D	Interlocked Systems 140.6(a)1/ 170.2(e)2A	Pass	Fail
KITCHEN A/B	Restaurant	Auth. Personnel	Multilevel Switch	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
DINING ROOM A/B	Restaurant	Auth. Personnel	Dimmer	Auto. Time Switch	NA: Not daylit zone	NA: Not daylit zone	No	☐	☐
DINING ROOM DL	Restaurant	Auth. Personnel	Multilevel Switch	Auto. Time Switch	Included	Included	Yes	☐	☐
					13				
					Plan Sheet Showing Daylit Zones:				
					E100				

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS

Each area complying using the Complete Building or Area Category Methods per 140.6(b) are included in this table. Column 06 indicates if additional lighting power allowances per 140.6(c) or adjustments per 140.6(a) are being used .

Conditioned Spaces

01	02	03	04	05	06	
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowance / Adjustment	
					Area Category	PAF
KITCHEN A/B	Restaurant	0.65	1,275	828.75	No	No
DINING ROOM A/B	Restaurant	0.65	720	468	No	No
DINING ROOM DL	Restaurant	0.65	592	384.8	No	No
		TOTALS:	2,587	1,681.55	See Tables J, or P for detail	

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J. ADDITIONAL ALLOWANCE: AREA CATEGORY METHOD QUALIFYING LIGHTING SYSTEM

This section does not apply to this project.

K. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE

This section does not apply to this project.

L. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY

This section does not apply to this project.

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING

This section does not apply to this project.

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED DECORATIVE /SPECIAL EFFECTS

This section does not apply to this project.

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE

This section does not apply to this project.

P. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (POWER ADJUSTMENT FACTOR (PAF))

This section does not apply to this project.

Q. RATED POWER REDUCTION COMPLIANCE FOR ONE-FOR-ONE ALTERATIONS

This section does not apply to this project.

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R. 80% LIGHTING POWER FOR ALL ALTERATIONS - CONTROLS EXCEPTIONS

This section does not apply to this project.

S. DAYLIGHT DESIGN POWER ADJUSTMENT FACTOR (PAF)

This section does not apply to this project.

T. DWELLING UNIT LIGHTING

This section does not apply to this project.

U. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selections have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-LTI-E - Must be submitted for all buildings

V. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

Selections have been made based on information provided in this document. If any selections have been changed by the permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and any with "-A" in the form name must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/attcp/providers.html

Form/Title	Systems/Spaces To Be Field Verified
NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	KITCHEN A/B; DINING ROOM A/B; DINING ROOM DL
NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	DINING ROOM DL
NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	DINING ROOM DL

STATE OF CALIFORNIA
Indoor Lighting
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE		NRCC-LTI-E
Project Name: CMG Richmond, CA	**Report Page:**	**(Page 8 of 8)**
Project Address:	**Date Prepared:**	2024-07-24T10:30:41-04:00

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name:	Documentation Author Signature:
MIKE NG	
Company: Bowman Consulting Group Ltd.	Signature Date: 07/24/2024
Address: 323 3rd Avenue #100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Longmont, CO 80501	Phone: 303-678-1108

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: AYMAN ELBARASI	Responsible Designer Signature:
Company: Bowman Consulting Group Ltd.	Date Signed:
Address: 12950 Worldgate Dr. Suite 100	License: 19722
City/State/Zip: Herndon, Virginia 20170	Phone: 703-713-0300

Indoor Lighting Mandatory Measures:

110.9 LIGHTING CONTROLS AND COMPONENTS
ALL LIGHTING CONTROL DEVICES AND SYSTEMS, AND ALL LIGHT SOURCES SHALL MEET THE APPLICABLE REQUIREMENTS OF 110.9.

NOTE: THE EXCEPTED SPACES DO NOT COUNT TOWARDS THE 10,000 FT2 THRESHOLD.

130.0 GENERAL LUMINAIRE REQUIREMENTS
ALL LUMINAIRES SHALL BE FACTORY-LABELLED PER 130.0(c).
ENERGY MANAGEMENT CONTROL SYSTEMS (EMCS) SHALL MEET REQUIREMENTS OF 130.0(e).

130.1(a) MANUAL AREA CONTROLS
EACH ROOM OR AREA WITH FLOOR-TO-CEILING WALLS IN THIS BUILDING SHALL HAVE LIGHTING CONTROLS THAT ALLOW LIGHTING TO BE MANUALLY TURNED ON AND OFF MANUAL CONTROLS SHALL:

1. BE READILY ACCESSIBLE
2. BE LOCATED IN THE SAME ENCLOSED AREA WITH THE LIGHTING IT CONTROLS.
3. PROVIDE SEPARATE CONTROL OF GENERAL, FLOOR, WALL, WINDOW CASE DISPLAY, ORNAMENTAL AND SPECIAL EFFECTS LIGHTING SO EACH TYPE CAN BE TURNED ON AND OFF SEPARATELY WITHOUT AFFECTING OTHER LIGHTING OR EQUIPMENT.

130.1(b) MULTILEVEL LIGHTING CONTROLS
GENERAL LIGHTING IN ALL ROOMS AND AREAS 100 FT2 OR GREATER AND WITH MORE THAN 0.5 WATTS PER FT2 OF LIGHTING LOAD SHALL HAVE MULTILEVEL CONTROLS THAT ALLOW LIGHT LEVELS TO BE ADJUSTED UP AND DOWN. CONTROLS SHALL PROVIDE NUMBER OF CONTROL STEPS AND UNIFORM ILLUMINANCE LIGHT LEVELS PER TABLE 130.1-A.

130.1(c): SHUTOFF CONTROLS
ALL INSTALLED INDOOR LIGHTING SHALL BE EQUIPPED WITH CONTROLS TO AUTOMATICALLY REDUCE LIGHTING POWER WHEN SPACE IS TYPICALLY UNOCCUPIED.

130.1(c)1: CONTROL REQUIREMENTS
ALL INSTALLED INDOOR LIGHTING SHALL HAVE ALL OF THE FOLLOWING:
A. CONTROL(S) CAPABLE OF AUTOMATICALLY SHUTTING OFF ALL LIGHTING IN THE SPACE WHEN TYPICALLY UNOCCUPIED (OCCUPANT SENSING CONTROL, AUTOMATIC TIME-SWITCH CONTROL, OR OTHER)
B. SEPARATE CONTROLS FOR LIGHTING ON EACH FLOOR (OTHER THAN STAIRWELLS)

C. SEPARATE CONTROLS FOR A SPACE ENCLOSED BY CEILING HEIGHT PARTITIONS NOT EXCEEDING 5,000 FT2

130.1(c)3,4 OVERRIDE FOR BUILDING LIGHTING SHUT-OFF
AREAS SERVED BY SHUT-OFF CONTROLS (OTHER THAN OCCUPANT SENSORS): SHALL:
130.1(c)3. INCLUDE MANUAL OVERRIDE CONTROL THAT COMPLIES WITH 130.1(a) AND ALLOWS LIGHTING TO REMAIN ON FOR UP TO 2 HOURS; AND
130.1(c)4. PROVIDE AUTOMATIC HOLIDAY "SHUTOFF".

130.1(c)6 PARTIAL OR FULL-OFF OCCUPANT SENSORS
PROVIDE PARTIAL OR FULL-OFF OCCUPANT SENSORS, IN ADDITION TO SHUTOFF CONTROLS PER 130.1(c)1 AND 130.1(c)2, IN THE FOLLOWING SPACES:

- AISLE WAYS AND OPEN AREAS IN WAREHOUSES
- LIBRARY BOOK STACK AISLES
- CORRIDORS AND STAIRWELLS
- OFFICES GREATER THAN 250 SQ. FT.

Consultant:

Bowman

323 3RD AVENUE, #100
LONGMONT, CO 80501

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Issue Record:

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3	07/24/24	IFC SET

Drawn:	PM:	CC:	Checked:
Author	BE	WS	Checker

Project No.
230426

Contents:
TITLE 24 FORMS

E011

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
This document is used to demonstrate compliance with mandatory requirements in 130.5, for electrical systems in newly constructed nonresidential and hotel/motel occupancies and 160.6 and 160.9 for electrical systems in newly constructed multifamily occupancies. Additions and alterations to electrical service systems in nonresidential and hotel/motel occupancies will also use this document to demonstrate compliance per 141.0(a) or 141.0(b)2P for alterations. For multifamily addition or alterations compliance will be documented per 180.1(a) or 180.2 (b)4Bvii	
Project Name: CMG Richmond, CA	**Report Page:** (Page 1 of 4)
Project Address:	**Date Prepared:** 2024-02-23T08:38:03-05:00

A. GENERAL INFORMATION

01	Project Location (city)	Richmond	02	Climate Zone	3
			03	Occupancy Types Within Project:	Restaurant

B. PROJECT SCOPE

This table includes electrical systems that are within the scope of the permit application.

01	02	03	04	05	06	07
Electrical Service Designation/ Description	Scope of Work[1]	Rating[2] (kVA)	Utility Provided Metering System Exception to 130.5(a)/ 160.6(a)[3]	System subject to CA Elec Code Article 517 Exception to 130.5(a)and (b)	Demand Response Controls	Provides power to dwelling units/common living areas only in multifamily occupancy
The service and utility meter housing are located in a room within the building shared between this project and another tenant. Sheet E110 note #53 identifies the location.	Add/Alt to feeders and branch circuits only	---	☐	☐	Where required, demand response controls must be specified which are capable of receiving and automatically responding to at least one standards based messaging protocol which enables demand response after receiving a demand response signal. Sections 120.2/ 160.3, 130.1/ 160.5, and 130.3/ 160.5, and mechanical, indoor lighting, and sign lighting Certificate of Compliance documents will indicate when demand response controls are required.	☐

[1] FOOTNOTES: Adding only new feeders and branch circuits triggers Voltage Drop 130.5(c)/160.6(c), no other requirements from 130.5/160.6 are required.
[2] If common use areas in a multifamily are submetered, rating is for submeter size serving common use areas.
[3] Applicable if the utility company is providing a metering system that indicates instantaneous kW demand and kWh for a utility-defined period.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: CMG Richmond, CA	**Report Page:** (Page 2 of 4)
	Date Prepared: 2024-02-23T08:38:03-05:00

C. COMPLIANCE RESULTS

Results in this table are automatically calculated from data input and calculations in Tables F through J. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

01		02		03		04	05	06
Service Electrical Metering 130.5(a)/ 160.6(a) (See Table F)	AND	Separation for Monitoring 130.5(b)/ 160.6(b) (See Table G)	AND	Voltage Drop 130.5(c)/ 160.6(c) (See Table H)	AND	Controlled Receptacles 130.5(d)/ 160.6(d) (See Table I)	Electric Ready 160.9 (See Table J)	**Compliance Results**
	AND		AND	Yes	AND			COMPLIES

D. EXCEPTIONAL CONDITIONS

This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS

This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

H. VOLTAGE DROP

This table includes entirely new or complete replacement electrical power distribution systems, or alterations that add, modify or replace both feeders and branch circuits to demonstrate compliance with 130.5(c)/ 160.6(c). For alterations, only the altered circuits must demonstrate compliance per 141.0(b)2Pii/ 180.2(b)4Bviic.

01	02				03	04	05	
Electrical Service Designation/Description	Combined Voltage Drop on Installed Feeder/Branch Circuit Conductors Compliance Method				Location of Voltage Drop Calculations[1]	Sheet Number for Voltage Drop Calculations in Construction Documents	Field Inspector	
							Pass	Fail
The service and utility meter housing are located in a room within the building shared between this project and another tenant. Sheet E110 note #53 identifies the location.	☒	Voltage drop less than 5%	☐	Permitted by CA Elec Code (Exception to 130.5(c))*	In construction documents	E600	☐	☐

** NOTES: If "Permitted by CA Elec Code *" is selected under Compliance Method above, please indicate where the exception applies in the space provided below.*

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: CMG Richmond, CA	**Report Page:** (Page 3 of 4)
	Date Prepared: 2024-02-23T08:38:03-05:00

H. VOLTAGE DROP

[1] FOOTNOTES: Voltage drop calculations may be attached to the permit application outside the construction documents if allowed by the Authority Having Jurisdiction. Select "attached" if applicable. If calculations will be the responsibility of the installing contractor, select "Contractor Responsible".

K. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION

Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online

Form/Title
NRCI-ELC-E - Must be submitted for all buildings

L. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE

There are no forms required for this project.

STATE OF CALIFORNIA
Electrical Power Distribution
CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE	NRCC-ELC-E
Project Name: CMG Richmond, CA	**Report Page:** (Page 4 of 4)
Project Address:	**Date Prepared:** 2024-02-23T08:38:03-05:00

1

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT

I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: MIKE NG	Documentation Author Signature:
Company: Bowman Consulting Group Ltd.	Signature Date: 02/26/2024
Address: 323 3rd Avenue #100	CEA/ HERS Certification Identification (if applicable):
City/State/Zip: Longmont, CO 80501	Phone: 303-678-1108

RESPONSIBLE PERSON'S DECLARATION STATEMENT

I certify the following under penalty of perjury, under the laws of the State of California:

1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer)
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: AYMAN ELBARASI	Responsible Designer Signature:
Company: Bowman Consulting Group Ltd.	Date Signed: 02/26/2024
Address: 12950 Worldgate Dr. Suite 100	License: 19722
City/State/Zip: Herndon, Virginia 20170	Phone: 703-713-0300

Electrical Power Distribution Mandatory Measures:

110.12(a) DEMAND RESPONSIVE (DR) CONTROLS
ALL DEMAND RESPONSIVE CONTROLS SHALL:

1. BE EITHER A. CERTIFIED OPENADR 2.0a OR OPENADR 2.0b VIRTUAL END NODE (VEN); OR B. CERTIFIED BY THE MANUFACTURER AS BEING CAPABLE OF RESPONDING TO A DR SIGNAL FROM A CERTIFIED OPENADR 2.0b VEN AUTOMATICALLY IMPLEMENTING THE CONTROL FUNCTIONS REQUESTED BY THE VEN FOR THE EQUIPMENT IT CONTROLS.
2. BE CAPABLE OF COMMUNICATING USING ONE OR MORE OF THE FOLLOWING: WI-FI, ZIGBEE, BACNET, ETHERNET, OR HARD-WIRING.
3. CONTINUE TO PERFORM ALL OTHER CONTROL FUNCTIONS PROVIDED BY THE CONTROL WHEN COMMUNICATIONS ARE DISABLED OR UNAVAILABLE.
4. DR CONTROL THERMOSTATS SHALL COMPLY WITH REFERENCE JOINT APPENDIX 5 (JA5), TECHNICAL SPECIFICATIONS FOR OCCUPANT CONTROLLED SMART THERMOSTATS.

110.12(d) DEMAND RESPONSIVE ELECTRONIC MESSAGE CENTER CONTROL
CONTROLS FOR ELECTRONIC MESSAGE CENTERS GREATER THAN 15KW SHALL BE CAPABLE OF REDUCING THE LIGHTING POWER BY A MINIMUM OF 30% WHEN RECEIVING A DR SIGNAL.

130.5(c) VOLTAGE DROP
THE MAXIMUM COMBINED VOLTAGE DROP ON BOTH INSTALLED FEEDER AND BRANCH CIRCUIT CONDUCTORS TO THE FARTHEST CONNECTED LOAD OR OUTLET SHALL NOT EXCEED 5%.

Indoor Lighting Mandatory Measures:

130.1(d) AUTOMATIC DAYLIGHTING CONTROLS
ALL GENERAL LIGHTING IN THE FOLLOWING ZONES SHALL HAVE CONTROLS THAT AUTOMATICALLY ADJUST THE INSTALLED LIGHTING POWER UP AND DOWN TO KEEP TOTAL LIGHT LEVEL STABLE AS INCOMING DAYLIGHT CHANGES:

- PRIMARY SIDELIT DAYLIT ZONES
- SECONDARY SIDELIT DAYLIT ZONES
- COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES IN PARKING GARAGES

ALL DAYLIT ZONES MUST BE SHOWN ON PLANS.

NOTE: PARKING AREAS ON THE ROOF OF A PARKING STRUCTURE ARE NOT SKYLIT DAYLIT AREAS.

IN ADDITION, AUTOMATIC DAYLIGHTING CONTROLS SHALL PROVIDE SEPARATE CONTROL FOR LUMINAIRES IN EACH TYPE OF DAYLIT ZONE. LUMINAIRES THAT FALL IN BOTH SKYLIT AND SIDELIT DAYLIT ZONE SHALL BE CONTROLLED AS PART OF THE SKYLIT ZONE.

130.1(d)3 THE AUTOMATIC DAYLIGHTING CONTROLS SHALL ACHIEVE ALL OF THE FOLLOWING:
A. ADJUST LIGHTING VIA CONTINUOUS DIMMING OR THE NUMBER OF CONTROL STEPS PROVIDED BY THE MULTILEVEL CONTROLS (FOR SPACES REQUIRED TO INSTALL MULTILEVEL CONTROLS UNDER SECTION 130.1(b)).

B. FOR EACH SPACE, ENSURE COMBINED ILLUMINANCE FROM CONTROLLED LIGHTING AND DAYLIGHT IS NOT LESS THAN ILLUMINANCE FROM CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE.

C. ENSURE THAT THE GENERAL LIGHTING POWER IN A DAYLIT ZONE SHALL BE REDUCED BY AT LEAST 90% WHEN DAYLIGHT ILLUMINANCE IN THAT ZONE IS GREATER THAN 150% OF DESIGN ILLUMINANCE RECEIVED FROM THE GENERAL LIGHTING SYSTEM AT FULL POWER (NOT APPLICABLE TO PARKING GARAGES).

D. (FOR PARKING GARAGES ONLY) ENSURE THAT WHEN ILLUMINANCE LEVELS MEASURED AT THE FARTHEST EDGE OF THE SECONDARY SIDELIT ZONE AWAY FROM GLAZING OR OPENING ARE GREATER THAN 150% OF THE ILLUMINANCE PROVIDED BY THE CONTROLLED LIGHTING WHEN NO DAYLIGHT IS AVAILABLE, THE CONTROLLED LIGHTING POWER IN THE COMBINED PRIMARY AND SECONDARY SIDELIT DAYLIT ZONES SHALL BE REDUCED BY 100%.

130.1(d)4 WHEN PHOTOSENSORS ARE LOCATED WITHIN THE DAYLIT ZONE, AT LEAST ONE PHOTOSENSOR SHALL BE LOCATED SO THAT IT IS NOT READILY ACCESSIBLE TO UNAUTHORIZED PERSONNEL.

130.1(d)5 THE LOCATION WHERE CALIBRATION ADJUSTMENTS ARE MADE TO AUTOMATIC DAYLIGHTING CONTROLS SHALL BE READILY ACCESSIBLE TO AUTHORIZED PERSONNEL BUT MAY BE INSIDE A LOCKED CASE OR UNDER A COVER THAT REQUIRES A TOOL FOR ACCESS.

Indoor Lighting Mandatory Measures:

130.1(f) CONTROL INTERACTIONS
EACH LIGHTING CONTROL INSTALLED TO MEET 130.1 REQUIREMENTS SHALL INCORPORATE THE FUNCTIONS OF OTHER LIGHTING CONTROLS REQUIRED BY THIS SECTION.

1. FOR GENERAL LIGHTING, MANUAL AREA CONTROL SHALL PERMIT THE LEVEL OF LIGHT PROVIDED WHILE LIGHTING IS ON TO BE SET OR ADJUSTED BY CONTROLS SPECIFIED IN 130.1(b), (c), (d) and (e).

2. MANUAL AREA CONTROL SHALL PERMIT SHUTOFF CONTROL TO TURN THE LIGHTING DOWN OR OFF.

3. MULTILEVEL CONTROL SHALL PERMIT THE AUTOMATIC DAYLIGHTING CONTROL TO ADJUST ELECTRIC LIGHTING IN RESPONSE TO DAYLIGHT.

4. MULTILEVEL CONTROL SHALL PERMIT THE DEMAND RESPONSIVE (DR) CONTROL TO ADJUST LIGHTING DURING A DR EVENT THEN RETURN IT TO THE LEVEL SET BY THE CONTROL AFTER THE EVENT.

5 SHUTOFF CONTROL SHALL PERMIT THE MANUAL AREA CONTROL TO TURN THE LIGHTING ON.

6. AUTOMATIC DAYLIGHTING CONTROL SHALL PERMIT MULTILEVEL LIGHTING CONTROL TO ADJUST THE LIGHTING LEVEL.

7. FOR LIGHTING CONTROLLED BY MULTILEVEL LIGHTING CONTROLS AND OCCUPANT SENSING CONTROLS THAT PROVIDE AUTOMATIC-ON FUNCTION, CONTROLS SHALL PROVIDE A PARTIAL-ON FUNCTION THAT IS CAPABLE OF AUTOMATICALLY ACTIVATING BETWEEN 50-70% OF CONTROLLED LIGHTING POWER.

8. RESERVED

9. FOR SPACE CONDITIONING SYSTEM ZONES SERVING ONLY SPACES THAT ARE REQUIRED TO HAVE OCCUPANT SENSING CONTROLS SHALL BE CONTROLLED BY OCCUPANCY SENSING CONTROLS.

Consultant:

Bowman

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Author	BE	WS	Checker

Project No.
230426

Contents:
TITLE 24 FORMS

E012

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE					SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	36/38/40	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL PANEL SCHEDULE NOTES

A. DUPLICATE PANEL SCHEDULE AND PERMENANTLY INSTALL WITHIN THE LIGHTING CONTROL PANEL.

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	nLIGHT LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8FCR MVOLT HLK FM DTC CPTLE1	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
$C	WALL-MOUNTED OVERRIDE SWITCH	1	TLS	GC	ACUITY	nPODMA 4P	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
$OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	3	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

LIGHTING FIXTURE SCHEDULE

TAG	COUNT	DESCRIPTION	MOUNTING	VOLTAGE	WATTS	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN MANUFACTURER	BASIS FOR DESIGN MODEL	BASIS FOR DESIGN LAMP	REMARKS
A1	8	2x2 LED LENSED TROFFER	LAY-IN	120 V	30 W	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	INTEGRAL 3000K LED	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	9	RECESSED 6IN CAN LIGHT	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL W/ NTM-57W/M1 TRIM	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27 K-25D LED (25°-2700K) W/ GU 24 BASE	
B2	23	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	120 V	17 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	3	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	120 V	12 W	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	120 V	5 W	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	13	LOW PROFILE LED - 3 FT	SURFACE	120 V	12 W	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	5	LOW PROFILE LED - 4 FT	SURFACE	120 V	15 W	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	6	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	LED-90	INTEGRAL LED	90 MINUTE BATTERY BACKUP
E2	2	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	4 V	1 W	TLS	GC	EXITRONIX	MLED1-B-WP	INTEGRAL LED	LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	7	WHITE EXIT SIGN WITH EMERGENCY LIGHT -STANDARD RED LETTERS	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	CLED-U-WH	INTEGRAL LED	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	17	EMERGENCY LIGHT	VARIOUS	120 V	2 W	TLS	GC	EXITRONIX	EV2	INTEGRAL LED	90 MINUTE BATTERY BACKUP
H1	8	VAPOR PROOF HOOD LIGHT	SURFACE	120 V	15 W	HS/TLS	HS	FURNISHED W/ HOOD	FURNISHED W/ HOOD	(1) TCP L16A19N1527K	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	PENDANT	120 V	9 W	TLS	GC	BARNLIGHT	BLE-C-CPT10-ASH-100-SBK-100-CAW	GREEN CREATIVE 9A19DIM/927/GU24/R	WITH BLACK LAMPSHADE, BLACK CORD, AND OAK LAMPHOLDER
P5	18	PENDANT	PENDANT	120 V	5 W	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	PENDANT	120 V	30 W	TLS	GC	BARNLIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
S3	4	ACCENT ARTWORK LIGHT	WALL	120 V	20 W	TLS	GC	HI-LITE MFG	H-CW2700-B	1 MEDIUM BASE	
T1	8	TRACK HEAD	TRACK	120 V	10 W	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-4	1	TRACK (4 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 4FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
T-6	2	TRACK (6 FT)	SURFACE	120 V	0 W	TLS	GC	JUNO	T 6FT BL	N/A	SINGLE CIRCUIT, BLACK FINISH. FURNISH WITH CONNECTORS TO ACHIEVE ARRANGEMENT SHOWN ON PLANS. TRIM AS REQUIRED FOR LENGTHS SHOWN.
TCL-0.5	2	TRACK CURRENT LIMITER (60W)	SURFACE	120 V	0 W	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	BLACK CURRENT LIMITING END FEED WITH CIRCUIT BREAKER
W1	4	WIC LED LIGHT	SURFACE	120 V	29 W	WCS	GC	FURNISHED W/ WIC	FURNISHED W/ WIC	INTEGRAL LED	WET-RATED COOLER FIXTURE

LIGHTING FIXTURE SCHEDULE NOTES

A. SEE THE ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LIGHT LOCATIONS.

B. SEE THE ARCHITECTURAL LIGHTING DETAILS FOR FIXTURE CONSTRUCTION DETAILS.

ELECTRICAL LIGHTING PLAN NOTES

1 INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710

2 FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.

3 WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE

4 VERIFY MOUNTING HEIGHT OF EXIT SIGN PRIOR TO ROUGH IN. EXIT SIGN MUST BE VISIBLE FROM AREA SERVED AFTER BUILDING SYSTEMS HAVE BEEN INSTALLED. SEE ARCHITECTURAL ELEVATIONS FOR FURTHER INFORMATION.

5 MOUNTING HEIGHT IS 8'-6" AFF CENTERED ON ARTWORK. REFER TO ELEVATION DETAIL 8/A701 FOR MORE DETAILS.

6 INSTALL LIGHT FIXTURES FURNISHED WITH THE WALK-IN COOLER. PROVIDE UNSWITCHED CONDUCTOR FROM LIGHTING CIRCUIT TO WALK-IN COOLER LIGHTING J-BOX AND FROM J-BOX TO LIGHT FIXTURES AS SHOWN. CONDUIT BETWEEN LIGHT FIXTURES SHALL BE ROUTED ON THE INTERIOR OF THE WALK-IN COOLER. SEAL INTERIOR AND EXTERIOR OF CONDUITS WHERE THEY PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.

7 NOT USED.

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

9 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 NOT USED.

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

13 CONNECT DINING ROOM (RELAY CIRCUITS R4. R5, R6) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.

14 INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.

15 NOT USED.

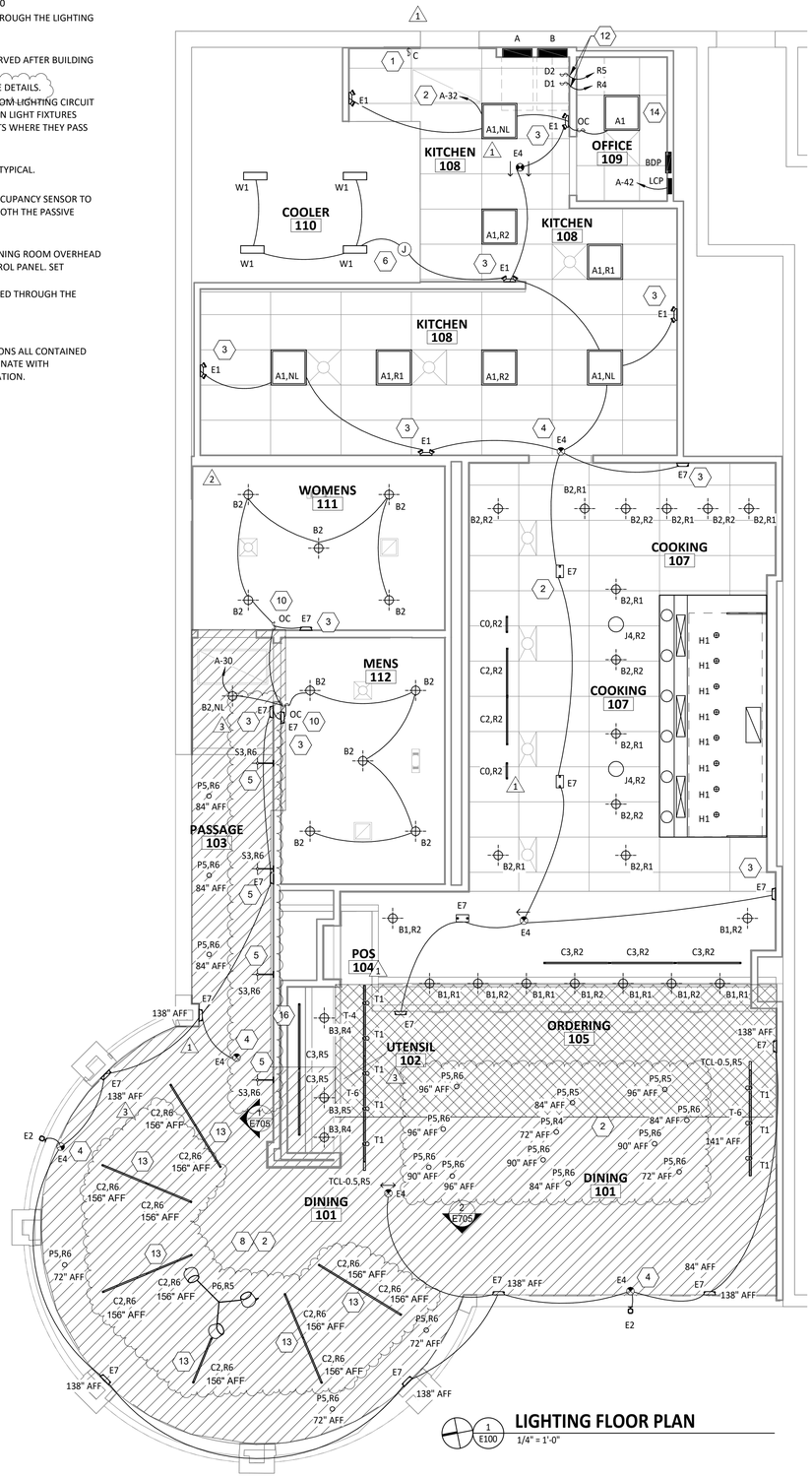
16 PENATRATIONS THROUGH SHEAR WALL SHALL BE LIMITED TO 10" DIAMETER (OR A GROUP OF PENETRATIONS ALL CONTAINED WITHIN 10" DIAMETER). IF LARGER PENETRATIONS OR GROUPS OF PENETRATIONS ARE REQUIRED COORDINATE WITH STRUCTURAL ENGINEER FOR APPROPRIATE BRACING. SEE STRUCTURAL DRAWINGS FOR SHEAR WALL LOCATION.

17 NOT USED.

KEY NOTES:

PRIMARY LIGHTING DAYLIGHT ZONE = 1X HEIGHT OF WINDOW PLUS 0.5X EACH ADJACENT SIDE OF WINDOW)

SECONDARY LIGHTING DAYLIGHT ZONE = 2X HEIGHT OF WINDOWS



1 E100 **LIGHTING FLOOR PLAN**
1/4" = 1'-0"

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Project No.
230426

Contents:

ELECTRICAL LIGHTING PLAN

E100

ELECTRICAL POWER PLAN NOTES

1 SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT RECEPTACLE MOUNTING HEIGHT IN THE FIELD. LOCATION SHALL BE IN THE DRYWALL IMMEDIATELY ABOVE THE MAIN STORE-FRONT WINDOW AND AS SHOWN IN THE DINING ROOM ELECTRICAL ELEVATIONS ON SHEET E700.

2 ICE MACHINE ELECTRICAL TIE-IN. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE L5-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH L5-20R END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.

3 CONNECT RECEPTACLES SERVING EQUIPMENT BELOW THE KITCHEN HOOD TO THE CIRCUITS SHOWN THROUGH THE CONTACTOR INTEGRAL TO THE HOOD CONTROL PANEL. INTEGRAL CONTACTOR SHALL BE INTERLOCKED TO HOOD FIRE PROTECTION SYSTEM SO THAT RECEPTACLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.

4 JUNCTION BOX FOR EXTERIOR SIGN LIGHTING. COORDINATE EXACT LOCATION WITH CHIPOTLE'S CONSTRUCTION MANAGER AND THE SIGN INSTALLER PRIOR TO ROUGH-IN. CONNECT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL AS SHOWN IN DETAIL 6/E710.

5 PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE KITCHEN EXHAUST SUPPRESSION SYSTEM PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE KITCHEN EXHAUST SUPPRESSION SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.

6 HOOD CONTROL PANEL AND KITCHEN EXHAUST SUPPRESSION SYSTEM CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

7 PROVIDE A DUPLEX GFCI RECEPTACLE WITH WEATHERPROOF WHILE IN USE OUTLET COVER FOR IRRIGATION CONTROLLER.

8 PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.

9 COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.

10 PROVIDE ROUGH-IN FOR LAUNCHPORT AS NOTED. LAUNCHPORT WILL BE FURNISHED AND INSTALLED BY CHIPOTLE WITH THE WALLSTATION AT 62" AFF. PROVIDE A 4" X 2-1/8" DEEP OCTAGON J-BOX WITH 1-1/2" EXTENSION RING AT 62" AFF FOR THE WALLSTATION INSTALLATION WITH A 1" CONDUIT WITH PULL STRING FROM THE J-BOX TO ABOVE THE OFFICE CEILING.

11 PROVIDE (2) EMPTY 2" CONDUITS WITH PULL STRINGS FROM THE BASE BUILDING'S TELEPHONE AND DATA SERVICE ENTRANCE LOCATIONS TO THE SPACE ABOVE THE OFFICE CEILING. TERMINATE WITH CONDUIT BUSHING.

12 PROVIDE A SUITABLE LENGTH OF LIQUID-TIGHT CONDUIT TO THE EXHAUST FAN EF-1 TO ALLOW THE EXHAUST FAN TO HINGE COMPLETELY OPEN WHEN THE VIROGUARD SYSTEM IS INSTALLED.

13 AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTACLES AT THE FAX LINE, POS, AND OFFICE.

14 PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.

15 PROVIDE A NEMA 3R FUSED DISCONNECT SWITCH SIZED PER MECHANICAL AND PLUMBING SCHEDULE IN SHEET E600.

16 PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL BOOSTER.

17 INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E710.

18 ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

19 ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED WEATHERPROOF GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.

20 ICE MAKER RECEPTACLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.

21 PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTACLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.

22 LABEL BATTERY-PROTECTED RECEPTACLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".

23 LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTACLES IN USE. DISCONNECT AT PANEL BDP."

24 PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.

25 CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).

26 INSTALL 16/2 SPEAKER WIRE FURNISHED BY MSS. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AS SHOWN TO THE VOLUME CONTROL IN THE KITCHEN WITH 3 FEET OF SLACK AT EACH END. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.

27 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLES IN TWO J-BOXES INTEGRAL TO PREP TABLE FOR HOT HOLDING CABINET AND GENERAL RECEPTACLE.

28 PROVIDE GFCI RECEPTACLE AND J-BOX AND INSTALL CO2 ALARM FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

29 PROVIDE J-BOX AND INSTALL CO2 ALARM REMOTE DISPLAY UNIT FURNISHED BY CO2AS AS SHOWN IN DETAIL 4/E710.

ELECTRICAL POWER PLAN NOTES

30 INSTALL WALK-IN-COOLER EXTERNAL READOUT THERMOMETER REMOTE PROBE ON WALL OPPOSITE FROM DOOR AS SHOWN. ROUTE TEMPERATURE PROBE WIRE ABOVE WALK-IN COOLER CEILING PANELS, SEAL PENETRATIONS THROUGH THE CEILING PANELS, AND SECURE VERTICAL PROBE WIRE TIGHT TO WALLS. NO EXCESS PROBE WIRE SHALL BE WITHIN THE WALK-IN COOLER.

31 PROVIDE RECEPTACLE FOR RESTROOM HAND SINK FAUCET AS SHOWN IN DETAIL 14/P700.

32 PROVIDE 4" SQUARE J-BOX ON EXTERIOR WALL FOR MOUNTING OF EXTERIOR CAMERA. SEE ARCHITECTURAL ELEVATION FOR EXACT HEIGHT AND LOCATION. PROVIDE 3/4" CONDUIT WITH PULLSTRING FROM J-BOX TO ABOVE LAY-IN CEILING AREA IN KITCHEN. J-BOX SHALL NOT BE SURFACE MOUNTED. BASE OF CAMERA SHALL BE MOUNTED FLUSH TO EXTERIOR WALL FINISH.

33 PROVIDE 1" CONDUITS FROM LOW-VOLTAGE J-BOXES AT POS COUNTER CONCEALED WITHIN THE SERVE LINE WIRING CHASE TO THE WALL, THEN CONCEALED WITHIN THE WALL AND ABOVE THE CEILING TO ABOVE THE OFFICE CEILING.

34 NOT USED.

35 INSTALL VEHICLE DETECTOR SYSTEM FURNISHED BY TLS SURFACE-MOUNTED ON WALL IN ACCESSIBLE LOCATION ABOVE CEILING AND CONNECT TO STROBE/CHIME AND DETECTOR LOOP PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. MAKE FINAL ADJUSTMENTS TO LOOP SENSITIVITY PER THE MANUFACTURER'S INSTRUCTIONS. ONCE ALL COMPONENTS ARE INSTALLED AND OPERATIONAL THE CHIME/STROBE LIGHT SHOULD STAY ILLUMINATED AND THERE SHOULD BE A SINGLE CHIME WHEN A VEHICLE DRIVES OVER OR STOPS ON LOOP.

36 SEAL INTERIOR AND EXTERIOR OF CONDUITS THAT PASS THROUGH THE WALK-IN COOLER ENVELOPE PER THE NEC.

37 PROVIDE ISLAND PREP TABLE FOOD WARMER RECEPTACLE WITH GROUND PIN TOWARDS THE BOTTOM OF THE RECEPTACLE.

38 INSTALL TRANSFORMER FURNISHED BY TUV WITH THE REME HALO AIR PURIFIER IN THE JUNCTION BOX ON THE EXTERIOR OF THE RTU PER DETAIL 6/M700. CONNECT LINE SIDE OF THE TRANSFORMER TO THE RTU SERVICE RECEPTACLE CIRCUIT SO THAT REME HALO RUNS CONTINUOUSLY. CONNECT THE LOW VOLTAGE SIDE OF THE TRANSFORMER TO THE REME HALO USING THE INCLUDED BARREL PLUG.

39 PROVIDE (2) 10"X10"X4" JUNCTION BOXES (J-BOX #1/J-BOX #2) ON THE WALL ABOVE PANELBOARDS 6" BELOW THE LAY-IN CEILING AND MOUNTED ADJACENT TO EACH. PROVIDE CONDUITS AND WIRING SHOWN IN DETAIL 8/E710. TEMS SHALL PROVIDE GRIDPOINT 3 PHASE METER AND TRANSFORMER WITHIN J-BOX #1 AND GRIDPOINT IOM/HUB WITHIN J-BOX #2. SEE GRIDPOINT INSTALLATION SHEET FOR DETAILS.

40 PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION. PROVIDE CONDUITS AND WIRING AS SHOWN IN DETAIL 8/E710.

41 INSTALL WIRED DOOR BUZZER AT 96" AFF. SEE ARCHITECTURAL DOOR EQUIPMENT FOR EQUIPMENT INFORMATION. CONNECT TO CIRCUIT SHOWN THROUGH THE TRANSFORMER FURNISHED WITH THE DOOR BUZZER. PROVIDE WIRING TO A BUTTON ADJACENT TO THE SERVICE DOOR AND CONNECT PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

42 CONNECT BATHROOM SANITIZER TO CIRCUIT SHOWN SO THAT IT IS ENERGIZED AT ALL TIMES.

43 PROVIDE POWER AND LOW VOLTAGE CONNECTIONS TO DISH SANITIZING MACHINE PER DETAIL 7/E710. CONNECT THE DETERGENT DISPENSER TO THE DISH MACHINE USING THE INCLUDED WIRING HARNESS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

44 PROVIDE RECEPTACLE FOR 2-DOOR AND 1-DOOR REFRIGERATORS WITH GROUND PINS TOWARDS THE BOTTOM OF THE RECEPTACLE.

45 PROVIDE CORD AND NEMA 5-20P PLUG FROM UTENSIL COUNTER ICE MAKER, THROUGH UTENSIL COUNTER, TO ICE MAKER RECEPTACLE.

46 LABEL UTENSIL COUNTER RECEPTACLES "TRACTOR BEVERAGE", "ICE MAKER/IMSB", AND "SODA FOUNTAIN".

47 LABEL RECEPTACLE "UV INSECT TRAP".

48 PROVIDE POWER CONNECTIONS TO ISLAND PREP TABLE PER DETAIL 2/E710. PROVIDE GFCI DUPLEX RECEPTACLE IN THE J-BOX INTEGRAL TO PREP TABLE FOR UNDERCOUNTER REFRIGERATOR. PROVIDE FINAL CONNECTION TO CARVING STATION HEATER.

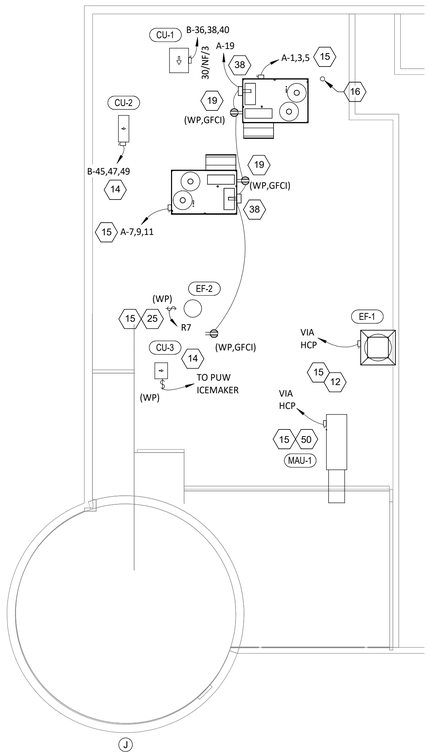
49 IF NEUTRAL CONDUCTOR IS NOT NEEDED FOR SERVE LINE HOT FOOD SERVER TERMINATE NEUTRAL IN JUNCTION BOX.

50 PROVIDE A TWO-CONDUCTOR LOW VOLTAGE WIRE IN 3/4" C. AND (4) #12, #12 N., #12 G. IN 1" C. FROM MAU-1 TO THE HOOD CONTROL PANEL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

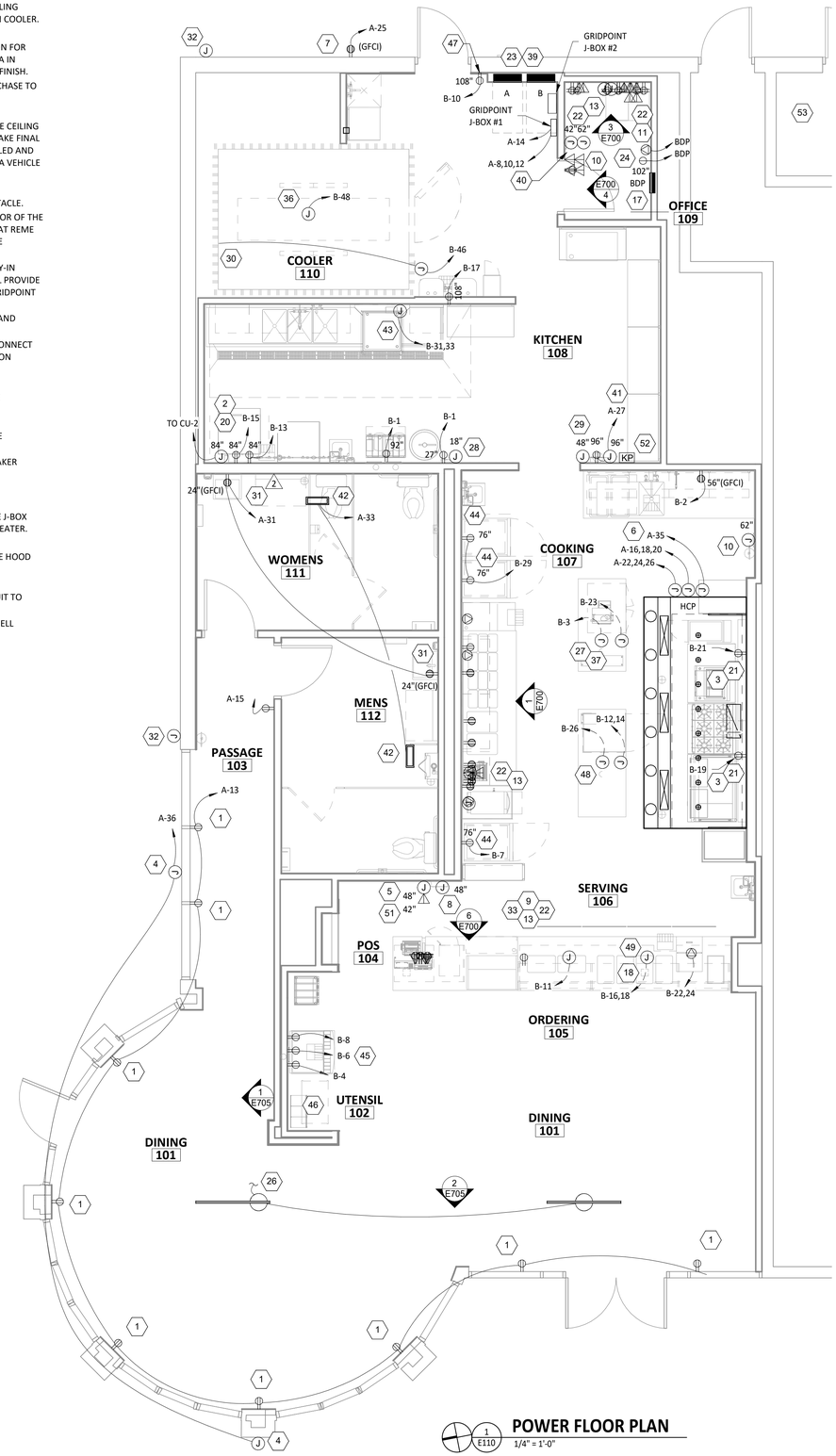
51 PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.

52 PROVIDE A RECESSED J-BOX AT 48" AFF FOR THE INSTALLATION OF THE SECURITY SYSTEM KEYPAD WITH A 3/4" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA. TERMINATE CONDUIT WITH A CONDUIT BUSHING.

53 EXISTING MECHANICAL ROOM WHERE EXISTING ELECTRICAL SERVICE EQUIPMENT IS LOCATED. REFER TO CORE AND SHELL CONSTRUCTION DOCUMENTS FOR MORE DETAILS.

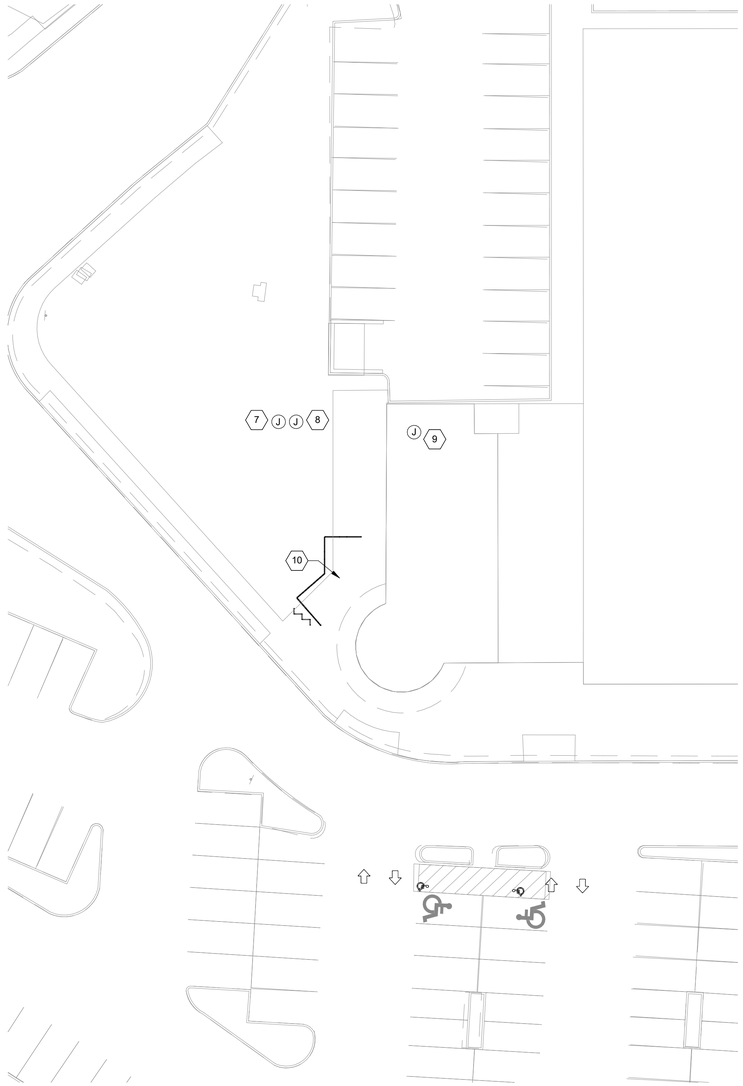


2 E110 **POWER ROOF PLAN**
1/8" = 1'-0"



ELECTRICAL POWER PLAN NOTES

1 NOT USED.
2 NOT USED.
3 NOT USED.
4 NOT USED.
5 NOT USED.
6 NOT USED.
7 EXISTING 1" SPARE LOW VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
8 EXISTING 1" SPARE LINE VOLTAGE CONDUIT. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
9 EXISTING INTERIOR J-BOXES AT 11'-0" AFF FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE DETAIL 2/THIS SHEET FOR MORE INFORMATION.
10 EXISTING SITE LIGHTING.

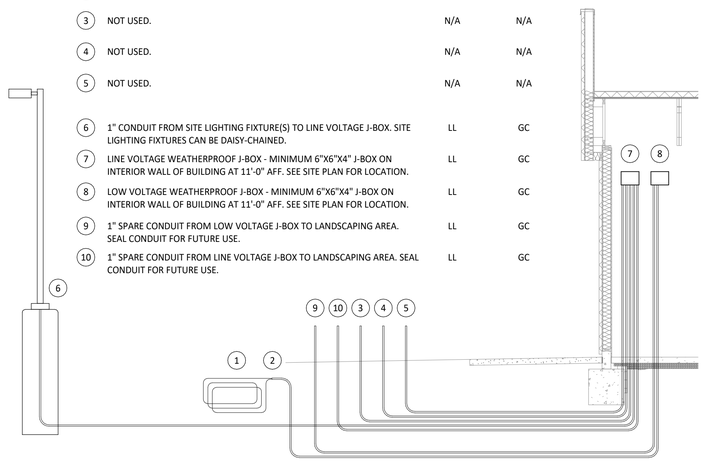


1 E115 **POWER SITE PLAN**
1" = 20'-0"

TAG	DESCRIPTION	RESPONSIBILITY: DEVICE OR CONDUIT	RESPONSIBILITY: CONNECTION OR CONDUCTORS
1	NOT USED.	N/A	N/A
2	NOT USED.	N/A	N/A
3	NOT USED.	N/A	N/A
4	NOT USED.	N/A	N/A
5	NOT USED.	N/A	N/A
6	1" CONDUIT FROM SITE LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.	LL	GC
7	LINE VOLTAGE WEATHERPROOF J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	LL	GC
8	LOW VOLTAGE WEATHERPROOF J-BOX - MINIMUM 6"X6"X4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. SEE SITE PLAN FOR LOCATION.	LL	GC
9	1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	LL	GC
10	1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE.	LL	GC

GENERAL NOTES

A. WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
B. CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
C. PROVIDE PULL STRING IN EMPTY CONDUITS.
D. SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.



2 E115 **SITE CONDUIT DETAIL**
NOT TO SCALE

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Contents:
ELECTRICAL SITE POWER PLAN

E115

MECHANICAL AND PLUMBING EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	AREA/ EQUIPMENT SERVED	QTY	AMPS	VOLTS	PHASE	WATTS OR VA	MOP (A)	PANEL	CIRCUIT	DISC./FUSE TYPE	FEEDER	NOTES
RTU-1	ROOF TOP UNIT	KITCHEN	1	42.0	208	3	-	50	A	1,3,5	INTEGRAL	#8, #10 GND	
RTU-2	ROOF TOP UNIT	DINING ROOM	1	42.0	208	3	-	50	A	7,9,11	INTEGRAL	#8, #10 GND	
EF-1	EXHAUST FAN	KITCHEN	1	8.3	208	3	-	20	A	16,18,20	FRN-R-20	#12, #12 GND	
EF-2	EXHAUST FAN	RESTROOM	1	2.9	120	1	-	20	A	28	TO SWITCH	#12, #12 GND	
CU-1	CONDENSING UNIT	WALK-IN COOLER	1	9.0	208	3	-	15	B	36,38,40	FRN-R-15	#12, #12 GND	
CU-2	CONDENSING UNIT	ICE MAKER	1	9.0	120	1	-	15	FED FROM E-32A		FRN-R-15	#12, #12 GND	2
CU-3	CONDENSING UNIT	ICE MAKER	1	9.0	120	1	-	15	FED FROM E-32D		FRN-R-15	#12, #12 GND	2
MAU-1	MAKE-UP AIR UNIT	HD-1	1	3.1	208	3	-	15	A	22,24,26	FRN-R-15	#12, #12 GND	
HD-1	KITCHEN HOOD CONTROL PANEL	KITCHEN	1	12.0	120	1	-	20	A	35	J-BOX	#12, #12 GND	
HS-1B	HAND SINK FAUCET	RESTROOM	2	-	120	1	20	20	A	31	NEMA 5-20R	#12, #12 GND	
DWH-1	WATER HEATER	BUILDING	1	4.0	120	1	-	20	B	17	TO SWITCH	#12, #12 GND	
DWH-2	WATER HEATER	BUILDING	1	4.0	120	1	-	20	B	17	TO SWITCH	#12, #12 GND	
KITCHEN (POWER ONLY) EQUIPMENT SCHEDULE													
E-1A.1	FRONT SERVE LINE (RIGHT) - POS SYSTEM	KITCHEN	1	1.5	120	1	-	15	BDP	1	NEMA 5-20R	#12, #12 GND	
E-1A.2	FRONT SERVE LINE (RIGHT) - HOT FOOD WELLS	KITCHEN	1	20.0	208	1	-	30	B	16,18	NEMA 6-30R	#10, #10 GND	1
E-1A.3	FRONT SERVE LINE (RIGHT) - COLD TOP	KITCHEN	1	3.7	120	1	-	20	B	11	NEMA 5-20R	#12, #12 GND	1
E-2A	TORTILLA WARMER	KITCHEN	2	-	208	1	1800	20	B	25,27	NEMA 6-20R	#12, #12 GND	1
E-7B.1	UPRIGHT BEVERAGE COOLER	KITCHEN	1	5.0	120	1	-	20	B	29	NEMA 5-20R	#12, #12 GND	
E-7B.2	UPRIGHT BEVERAGE COOLER	KITCHEN	2	5.0	120	1	-	20	B	29	NEMA 5-20R	#12, #12 GND	
E-11	CARVING STATION	KITCHEN	1	9.6	208	1	-	20	B	12,14	NEMA 5-20R	#12, #12 GND	1
E-12	UNDERCOUNTER REFRIGERATOR	KITCHEN	1	2.6	120	1	-	20	B	26	NEMA 5-20R	#12, #12 GND	
E-13	GRILL - NATURAL GAS	KITCHEN	1	-	120	1	200	20	B	19	NEMA 5-20R	#12, #12 GND	1
E-16	FRYER - GAS	KITCHEN	1	-	120	1	200	20	B	21	NEMA 5-20R	#12, #12 GND	1
E-18B	RICE COOKER - GAS	KITCHEN	1	0.5	120	1	-	20	B	21	NEMA 5-20R	#12, #12 GND	
E-26	HOT HOLDING CABINET	KITCHEN	1	-	120	1	1000	15	B	23	NEMA 5-20R	#12, #12 GND	
1 E-32.5	ICE MAKER - SANITIZER	KITCHEN	3	-	120	1	50	20	B	13	NEMA 5-20R	#12, #12 GND	1
E-32A	ICE MAKER FOR B.O.H. ICE BIN (SHORTER)	KITCHEN	1	10.8	208	3	-	20	B	45,47,49	FRN-R-20	#12, #12 GND	1
E-32D	ICE MAKER (SODA MACHINE) REMOTE COOLED	KITCHEN	1	12.5	120	1	-	20	B	42	NEMA 5-20R	#12, #12 GND	
E-33B	WALK-IN COOLER - EVAP.	KITCHEN	1	1.7	120	1	-	20	B	48	TO SWITCH	#12, #12 GND	1
E-39B.1	DML 2.0 - POS SYSTEM	KITCHEN	1	1.5	120	1	-	15	BDP	2	NEMA 5-15R	#12, #12 GND	1
E-39B.2	DML 2.0 - HOT FOOD WELLS	KITCHEN	1	20.0	208	1	-	30	B	28,30	NEMA 14-30R	#10, #10 GND	1
E-39B.3	DML 2.0 - FOOD WARMER	KITCHEN	1	11.7	120	1	-	20	B	32	NEMA 5-20R	#12, #12 GND	1
E-39B.4	DML 2.0 - COLD TOP	KITCHEN	1	3.7	120	1	-	20	B	34	NEMA 5-20R	#12, #12 GND	1
E-43	BEVERAGE COOLER BACKBAR 36IN	KITCHEN	1	3.0	120	1	-	20	B	39	NEMA 5-20R	#12, #12 GND	1
E-50	FOOD PROCESSOR	KITCHEN	1	15.0	120	1	-	20	B	3	NEMA 5-20R	#12, #12 GND	1
E-61B	DISH MACHINE (W/ PUMP)	KITCHEN	1	25.6	208	1	-	35	B	31,33	JJN-35	#8, #10 GND	
E-67	REFRIGERATED COUNTER CASE, SELF-SERVE	KITCHEN	1	8.8	120	1	-	20	B	9	NEMA 5-20R	#12, #12 GND	1
E-69B	M4.0 - SIMPLICITY BUBBLER MINI-QUAD	KITCHEN	1	8.5	120	1	-	20	B	8	NEMA 5-20R	#12, #12 GND	
E-71	QUESADILLA PRESS	KITCHEN	2	30.0	208	1	-	30	B	35,37	NEMA 6-30R	#10, #10 GND	
MISC (POWER ONLY) EQUIPMENT SCHEDULE													
4C	SMART SAFE	BUILDING	1	-	120	1	200	20	A	27	NEMA 5-20R	#12, #12 GND	1
5B	SODA DISPENSER - W/ AIR-COOLED ICE MAKER	BUILDING	1	9.3	120	1	-	20	B	4	NEMA 5-20R	#12, #12 GND	1
5C	SODA DISPENSER - W/ REMOTE AIR-COOLED I.M.	BUILDING	1	9.2	120	1	-	20	B	44	NEMA 5-20R	#12, #12 GND	1
6	CARBONATOR FOR SODA SYSTEM	KITCHEN	1	10.8	120	1	-	20	B	1	NEMA 5-20R	#12, #12 GND	1
24	LAUNCHPORT WALL STATION	BUILDING	1	-	120	1	180	15	BDP	3	NEMA 5-20R	#12, #12 GND	1
32	CO2 ALARM	BUILDING	1	-	120	1	1	20	B	1	NEMA 5-20R	#12, #12 GND	

GENERAL NOTES

A. REFER TO VENDOR SHOP DRAWINGS FOR MORE DETAILS, CONFIRM FINAL POWER REQUIREMENTS AND LAYOUT PRIOR TO ANY NEW WORK.
B. REFER TO SHEET A702 FOR EQUIPMENT MANUFACTURER, MODEL, LOCATION AND APPROXIMATE MOUNTING HEIGHTS.
C. ALL SINGLE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 50 AMPERES OR LESS AND THREE-PHASE RECEPTACLES RATED 150 VOLTS TO GROUND OR LESS, 100 AMPERES OR LESS INSTALLED IN THE KITCHEN AREA SHALL BE GFCI PROTECTED.
D. ALL EXTERIOR ELECTRICAL EQUIPMENT AND DEVICES SHALL BE RATED NEMA 3R.

NOTES

1. CONFIRM FINAL POWER REQUIREMENTS WITH VENDOR PRIOR TO ANY NEW WORK.
2. COORDINATE WITH VENDOR FOR WIRING DIAGRAM/DRAWINGS AND FINAL DETAILS PRIOR TO ANY RELATED WORK.
3. PROVIDED WITH INTEGRAL DISCONNECTING MEANS.

Voltage Drop Table

FROM	TO	# of Runs	Material (Al/Cu)	Size	Distance (Feets)	Load (Amps)	Voltage	Phase	Voltage Drop	Voltage Drop Percentage	Total Voltage Drop
Utility XFMR	(E)1200A MDP	4	AL	500 KCMIL	85	800	208	3	1.24843	0.60%	0.60%
(E)1200A MDP	NEW PANEL A	1	AL	250 KCMIL	45	265	208	3	1.7494	0.84%	1.44%
NEW PANEL A	20A CKT (WORST)	1	CU	#12	110	4	120	1	1.78332	1.49%	2.93%
NEW PANEL A	NEW PANEL BDP	1	CU	#12	50	18	120	1	3.474	2.90%	4.34%
NEW PANEL A	NEW PANEL B	2	AL	250 KCMIL	15	106	208	3	0.11663	0.06%	1.50%
NEW PANEL BDP	20A CKT (WORST)	1	CU	#12	40	4	120	1	0.64848	0.54%	4.88%
NEW PANEL B	20A CKT (WORST)	1	CU	#12	75	12	120	1	3.474	2.90%	4.39%

NEW ELECTRICAL PANEL B

Location : REAR ENTRY
Supply From : PANEL A
Mounting : SURFACE
Voltage Line-Line : 208
Voltage Line-Ground : 120
A.I.C Rating (A) : 22,000
Main Type : MLO
NEMA: 1
Phase: 3
Wires: 4
Main Rating (A): 400
MCB Rating (A): -

NOTES:
1. REQUIRES GFCI PROTECTION.
2. CONFIRM FINAL POWER REQUIREMENTS.
3. PROVIDE A LOCKABLE BREAKER.
4. SHUNT TRIP PROTECTION BY ANSUL SYSTEM.
5.
6.

Notes	LOAD DESCRIPTION	SIZE (A)	POLES	CKT No	VOLT-AMPS PER PHASE A	VOLT-AMPS PER PHASE B	VOLT-AMPS PER PHASE C	CKT No	SIZE (A)	POLES	LOAD DESCRIPTION	Notes
1	6-CARBON./32-CO2 AL.	20	1	1	1296 1356			2	20	1	RCPT - PREP. TABLE	1
1	50-FOOD PROCESSOR	20	1	3		1800 1116		4	20	1	5B-SODA DISPENSER	1
	SPARE	20	1	5			0 1440	6	20	1	32C-ICE MAKER (UTEN.)	1
1	7B.2-BEV. COOLER	20	1	7	600 1020			8	20	1	69B-BUBBLER	1
1	67-REF. COUNTER CASE	20	1	9		1056 180		10	20	1	UV LIGHT TRAP	1
1	1A.3-COLD TOP	20	1	11			444 1000	12	20	2	11-CARVING STATION	1
1 1	32.5-ICE SANITIZER	20	1	13	150 1000			14	--	--	--	1
	SPARE	20	1	15		0 2080		16	30	2	1A.2-HOT FOOD WELLS	1
2	GAS WATER HEATER	20	1	17			960 2080	18	--	--	--	1
1,2,4	13-GRILL-NATURAL GAS	20	1	19	200 0			20	20	1	SPARE	
1,2,4	16-FRYER/18B-RICE	20	1	21		260 900		22	20	2	2A-TORTILLA WARMER	1
1	26-HOLDING CABINET	20	1	23			1000 900	24	--	--	--	1
1	2A-TORTILLA PRESS	20	2	25	900 312			26	20	1	12-I/C REFRIGERATOR	1
1	--	--	--	27		900 2080		28	30	2	39B.2-HOT FOOD WELLS	1
1	7B.2/7B.1-BEV. COOLER	20	1	29			1200 2080	30	--	--	--	1
3	61B-DISH MACHINE	35	2	31	2662 1404			32	20	1	39B.3-FOODWARMER	1
3	--	--	--	33		2662 444		34	20	1	39B.4-COLD TOP	1
1	71-QUESADILLA MAKER	30	2	35			3120 1128	36	15	3	CU-1 (WALK-IN COND.)	
1	--	--	--	37	3120 1128			38	--	--	--	
1	43-BEV. COOLER 36IN.	20	1	39		360 1128		40	--	--	--	
	SPARE	30	2	41			0 1500	42	20	1	32D-ICE MAKER.(DRIVE)	1
	--	--	--	43	0 1104			44	20	1	5C-SODA DISPENSER	1
1 1	SPARE	20	1	45		0 180		46	20	1	WIC - DOOR SECTION	
2	32A-ICE MAKER	20	3	47			1296 200	48	20	1	33B-WIC-EVAPORATOR	
2	--	--	--	49	1296 0			50	20	1	SPARE	
2	--	--	--	51		1296 0		52	20	1	SPARE	
	SPARE	20	1	53			0 0	54	20	1	SPARE	
	Connected load per phase				17,549	16,442	18,348					

LOAD TYPE	FACTOR	CONNECTED (kVA) A	B	C	DEMAND (kVA) A	B	C	ADD'L DEMAND A	B	C	TOTAL DEMAND (kVA)
LIGHTING LOAD	1.25	0.0	0.0	0.0	0.0	0.0	0.0				0.0
REC. LOAD (10 KVA OR LESS)	1.00	0.2	0.2	0.0	0.2	0.2	0.0				0.3
REC. LOAD OVER 10 KVA	0.50	0.0	0.0	0.0	0.0	0.0	0.0				0.0
LARGEST MOTOR	1.25	0.0	0.0	0.0	0.0	0.0	0.0				0.0
OTHER MOTORS	1.00	0.0	0.0	0.2	0.0	0.0	0.2				0.2
MISCELLANEOUS	1.00	3.4	1.3	0.0	3.4	1.3	0.0				4.7
KITCHEN EQUIPMENT	0.65	14.0	15.0	18.1	9.1	9.7	11.8				30.6
	TOTAL KVA	17.5	16.4	18.3	12.7	11.2	12.0				35.9
	TOTAL KVA PER PHASE (KVA)				12.7	11.2	12.0	MINIMUM PANEL AMPACITY			106 Amps
	TOTAL AMPS PER PHASE (A)				105	93	100				

FEEDER SCHEDULE

COPPER (CU) ALUMINUM (AL)	FEEDER ID	NOMINAL AMPACITY (AMPS AT 75C)	SETS	CONDUCTORS QUANTITY	CONDUCTORS SIZE (AWG)	GROUND WIRE SIZE (AWG) COPPER ONLY	MIN CONDUIT SIZE (IN) EMT	MIN CONDUIT SIZE (IN) SCHED 40 PVC	NOTES
AL	1200/S	1240	4	4	500 KCMIL	-	3 - 1/2	4	1
AL	400/4	410	2	4	250 KCMIL	#3	2 - 1/2	2 - 1/2	1
CU	12/2	20	1	2	#12	#12	1/2	1/2	
CU	GND	BLDG STEEL & WATER PIPE - #3/0, UFER #4, GROUND ROD #6							

GENERAL NOTES

1. CONDUCTORS SHALL BE PROVIDED WITH 90C THHN, THWN, XHHW INSULATION INDICATED BY CODE. MAXIMUM AMPACITIY SHALL BE BASED ON NEC 75C RATINGS.

NOTES

1. CONTRACTOR SHALL CALCULATE CONDUIT SIZE IF USING ALTERNATE CONDUCTORS.

NEW PANEL BDP

Location : OFFICE
Supply From : PANEL A
Mounting : RECESSED
Voltage Line-Line : N/A
Voltage Line-Ground : 120
A.I.C Rating (A) : 10,000
Main Type : MLO
NEMA : 1
Phase : 1
Wires : 2
Main (A): 20
MCB (A): -

Notes	LOAD DESCRIPTION	SIZE (A)	POLES	CKT No	VA PER PHASE A
	1A.1-POS	15	1	1	180
	39B.1-DML - POS	15	1	2	180
	24-DML - ORDERING SYS.	15	1	3	720
	OFFICE - SECURITY SYS.	15	1	4	180
	OFFICE - COMPUTER	15	1	5	360
	OFFICE - DVR/ISP	15	1	6	540
	Connected load per phase				2,160

LOAD TYPE	FACTOR	CONNECTED (kVA) A
LIGHTING LOAD	1.25	0.0
RECEPTACLE LOAD (10 KVA OR LESS)	1.00	2.2
RECEPTACLE LOAD OVER 10 KVA	0.50	0.0
LARGEST MOTOR	1.25	0.0
OTHER MOTORS	1.00	0.0
MISCELLANEOUS	1.00	0.0
KITCHEN EQUIPMENT	1.00	0.0
	TOTAL KVA	2.2
TOTAL KVA PER PHASE (KVA)	2.2	MINIMUM AMPACITY 18 Amps
TOTAL AMPS PER PHASE (A)	18	

ELECTRICAL PANEL A

Location : REAR ENTRY
Supply From : 400A CT/DISC.
Mounting : SURFACE
Voltage Line-Line : 208
Voltage Line-Ground : 120
A.I.C Rating (A) : 22,000
Main Type : MCB
NEMA: 1
Phase: 3
Wires: 4
Main Rating (A): 400
MCB Rating (A): 400

NOTES:
1. CONTAINS NO LOAD.
2. REQUIRES GFCI PROTECTION.
3. CONFIRM POWER REQUIREMENTS.
4. RELOCATED CIRCUIT FROM HOUSE PANEL.
5. COORDINATE W/ PC FOR LOCATION OF HEAT TRACE.
6.

Notes	LOAD DESCRIPTION	SIZE (A)	POLES	CKT No	VOLT-AMPS PER PHASE A	VOLT-AMPS PER PHASE B	VOLT-AMPS PER PHASE C	CKT No	SIZE (A)	POLES	LOAD DESCRIPTION	Notes
	RTU-1	50	3	1	5040 0			2	60	3	TVSS	1
	--	--	--	3		5040 0		4	--	--	--	1
	--	--	--	5			5040 0	6	--	--	--	1
	RTU-2	50	3	7	5040 0			8	20	3	GRIDPOINT 3P METER	1
	--	--	--	9		5040 0		10	--	--	--	1
	--	--	--	11			5040 0	12	--	--	--	1
	RCPT - STOREFRONT	20	1	13	1200 180			14	20	1	GRIDPOINT XMFR	
	RCPT - DINING	20	1	15		180 996		16	20	3	EF-1	
0	PANEL 'BDP'	20	1	17			2160 996	18	--	--	--	
	RCPTS - ROOFTOP	20	1	19	720 996			20	20	1	SPARE	
	RCPTS - POS GENERAL	20	1	21		720 372		22	15	3	MAU-1	
	SECURITY/AUDIO	20	1	23			360 372	24	--	--	--	
	IRRIGATION CTRL	20	1	25	400 372			26	--	--	--	
2	RCPT - OFFICE/SAFE	20	1	27		1080 348		28	20	1	EF-2	
	RCPT - DML	20	1	29			1260 700	30	20	1	LTG - DINING + EM	
2	RCPT - RESTROOMS	20	1	31	360 1200			32	20	1	LTG - KITCHEN + EM	
	BATHROOM SANITIZER	20	1	33		100 0		34	20	1	SPARE	
	HD-1 (CTRL AND LTS)	20	1	35			1440 500	36	20	1	SIGN LIGHTING	
	SPARE	20	1	37	0 1200			38	20	1	LIGHTING - EXTERIOR	
	SPARE	20	1	39		0 500		40	20	1	SITE SIGNAGE	
	SPARE	20	1	41			0 1263	42	20	1	LIGHTING CTRL PANEL	
	SPARE	20	1	43	0 0			44	20	1	SPARE	
	SPARE	20	1	45		0 0		46	25	2	SPARE	
	SPARE	20	1	47			0 0	48	--	--	--	
	SPARE	20	1	49	0 0			50	20		SPACE	
	SPARE	20	1	51		0 0		52	20		SPACE	
	SPARE	20	1	53			0 0	54	20		SPACE	
	FEED-THRU PANEL B	--	--		12656 0							
	--	--	--			11204 0						
	--	--	--				11997 0					
	Connected load per phase				29,364	25,580	31,128					

LOAD TYPE	FACTOR	CONNECTED (kVA) A	B	C	DEMAND (kVA) A	B	C	PANEL B + BDP A	B	C	TOTAL DEMAND (kVA)
LIGHTING LOAD	1.25	3.6	0.5	2.5	4.5	0.6	3.1	0.0	0.0	0.0	8.2
REC. LOAD (10 KVA OR LESS)	1.00	1.7	2.1	3.1	1.7	2.1	3.1	0.2	0.2	2.2	9.3
REC. LOAD OVER 10 KVA	0.50	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
LARGEST MOTOR	1.25	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
OTHER MOTORS	1.00	11.8	11.4	11.4	11.8	11.4	0.0	0.0	0.0	0.2	34.9
MISCELLANEOUS	1.00	0.0	0.0	0.0	0.0	0.0	0.0	3.4	1.3	0.0	4.7
KITCHEN EQUIPMENT	0.65	0.0	0.0	0.0	0.0	0.0	0.0	9.1	9.7	11.8	30.6
	TOTAL KVA	16.7	14.4	17.0	17.6	14.5	17.6	12.7	11.2	14.2	87.7
	TOTAL KVA PER PHASE (KVA)				30.3	25.7	31.7	MINIMUM PANEL AMPACITY			265 Amps
	TOTAL AMPS PER PHASE (A)				252	214	265				

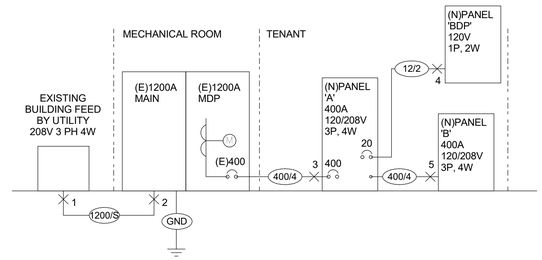
FAULT CURRENT CALCULATIONS

MAXIMUM AVAILABLE FAULT CURRENT (Iaic)
Isc = (Iaic x M) ; M = 1 / (1 + F)
F (3Ø) = (1.73 x L x Iaic) / (C x N x Vp)
F (1Ø) = (2 x L x Iaic) / (C x N x Vp)

FAULT POINT	FAULT LOCATION	DISTANCE IN FEET (L)	PHASE	AL / CU	SIZE	# OF RUNS (N)	CONDUIT: MAG=1 NON-MAG=2	PRIMARY VOLT. (Vp)	SECONDARY VOLT. (Vs)	WIRE FACTOR (C)	XFMR SIZE (kVA)	XFMR IMPEDANCE (%Z)	UPSTREAM FAULT (Iaic)	FAULT VALUE (Isc)
1	(E)150KVA UTILITY XFMR											1.3		**32000**
2	(E)1200A MDP	100	3	AL	500	4	2	208		85564			32000	**24401**
3	NEW PANEL A	40	3	AL	250	2	1	208		24244			24401	**18275**
4	NEW PANEL BDP	50	3	CU	12	1	1	208		617			18275	**1371**
5	NEW PANEL B	5	3	AL	250	2	1	208		24244			18275	**17718**

GENERAL NOTES:

1. UNLESS NOTED, ALL DEVICES AND TERMINATIONS 100 AMPS AND LESS TO BE RATED FOR 60°C WIRE, OVER 100 AMPS, 75°C WIRE.
2. ALL WIRE #8 AND SMALLER TO BE THWN/THHN CU.; #6 AND LARGER TO BE XHHW AL.
3. CONFIRM UTILITY TRANSFORMER SIZE, IMPEDENCE, AND AVAILABLE FAULT WHEN INFORMATION BECOMES AVAILABLE FOR EOR TO UPDATE CALCULATIONS AS NEEDED.
4. CONFIRM SERVICE EQUIPMENT MEETS LOCAL UTILITY REQUIREMENTS.



1 E600 **RISER DISTRIBUTION DIAGRAM**
NOT TO SCALE

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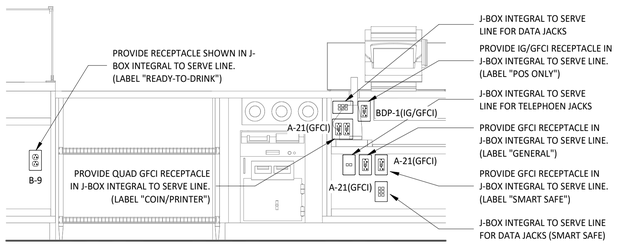
Contents:
ELECTRICAL SCHEDULES

E600



6 E700 POS COUNTER ELECTRICAL ELEVATION

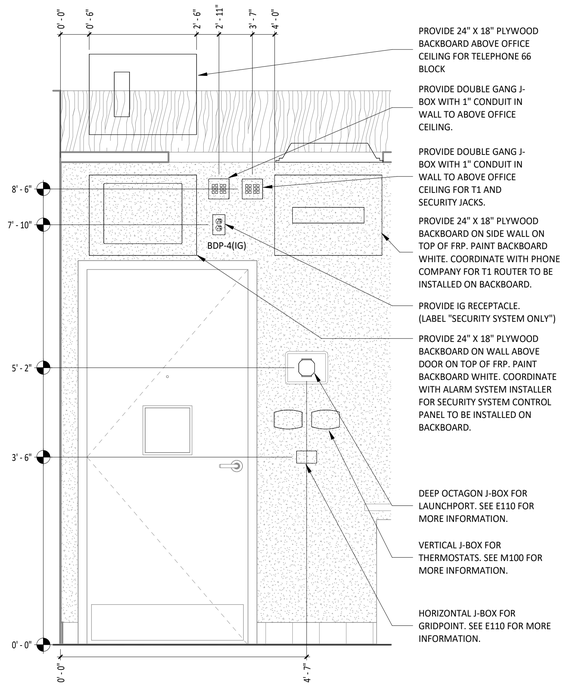
3/4" = 1'-0"

5 E700 NOT USED

NOT TO SCALE

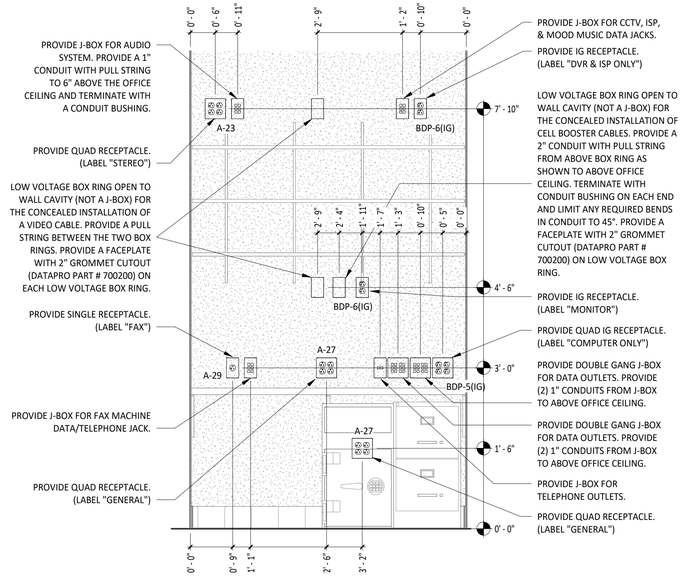
2 E700 NOT USED

3/4" = 1'-0"



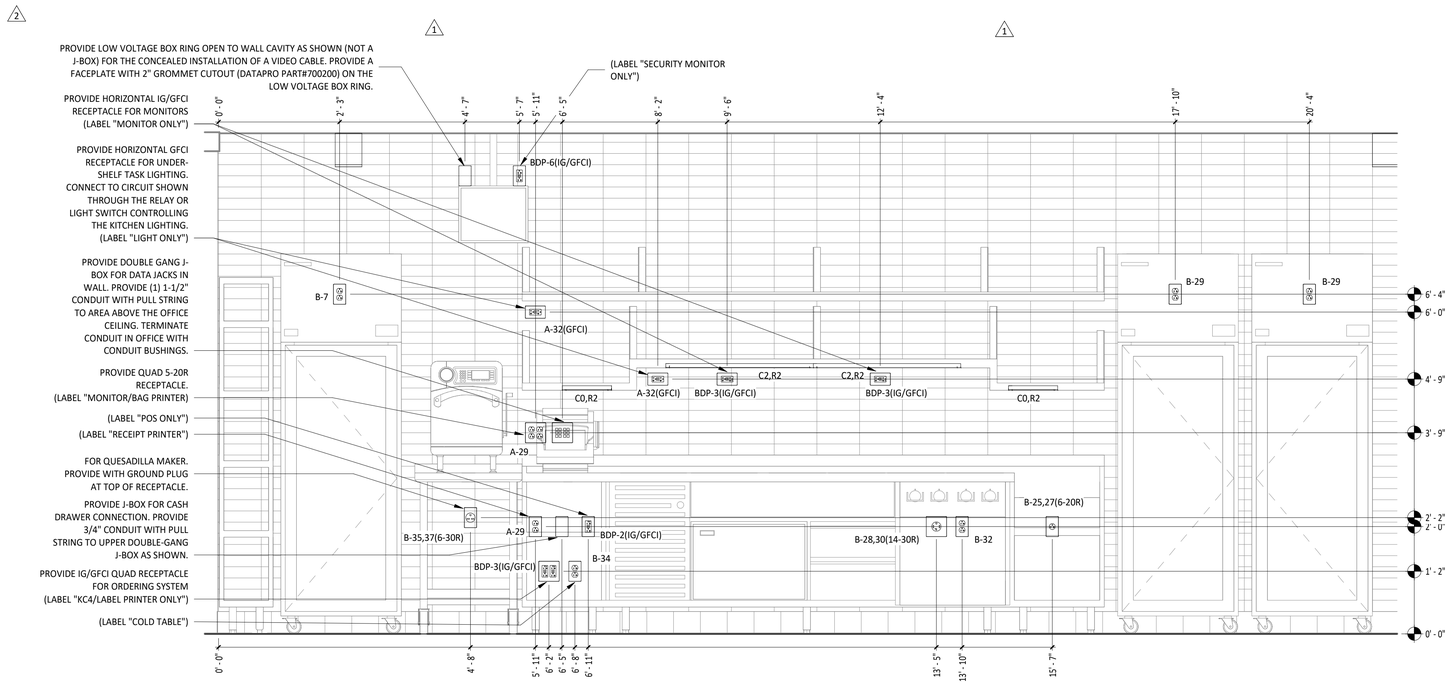
4 E700 OFFICE DOOR ELECTRICAL ELEVATION

3/4" = 1'-0"



3 E700 OFFICE DESK ELECTRICAL ELEVATION

3/4" = 1'-0"



1 E700 DML ELECTRICAL ELEVATION

3/4" = 1'-0"

Consultant:

Bowman

323 3RD AVENUE, #100
LONGMONT, CO 80501

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RICHMOND, CA 94806

Issue Record:

02/29/2024	PERMIT SET
07/24/2024	IFC SET

Revisions:

1	04/19/24	PERMIT COMMENTS
2	05/31/24	PERMIT COMMENTS #2

Drawn:	PM:	CC:	Checked:
MN	BE	WS	AE

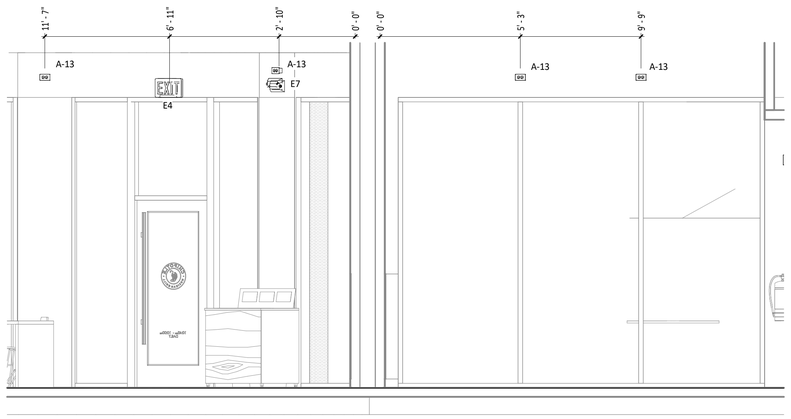
Project No.

230426

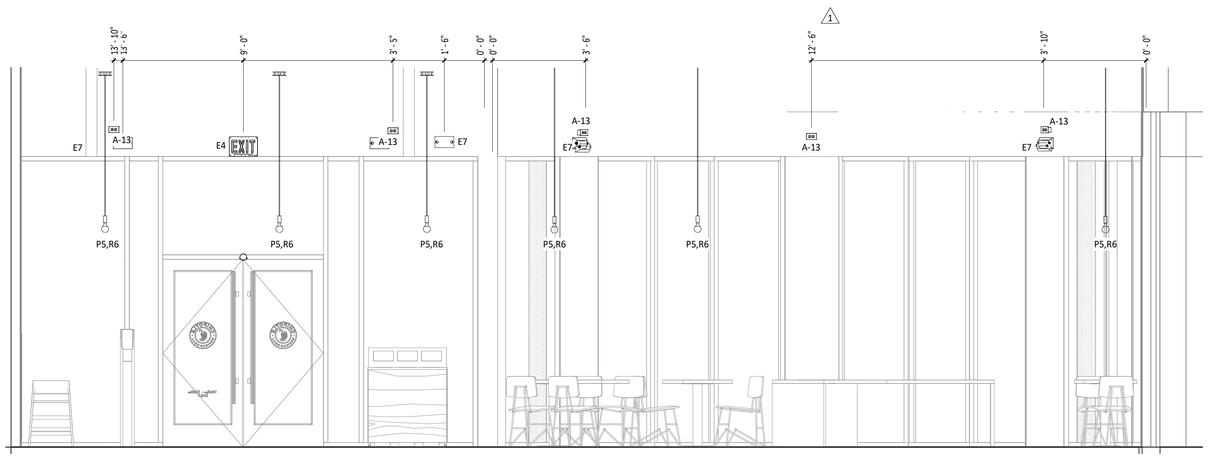
Contents:

ELECTRICAL INTERIOR ELEVATIONS

E700



1 E705 **E-DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"



2 E705 **DINING ROOM ELECTRICAL ELEVATION**
3/8" = 1'-0"

Consultant:

Bowman

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Drawn:	PM:	CC:	Checked:
MN	BE	WS	AE

Project No.
230426

Contents:

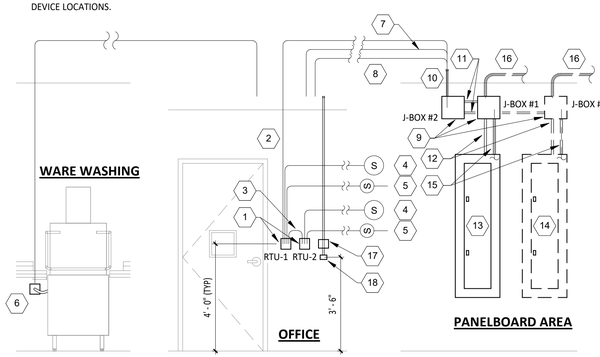
ELECTRICAL INTERIOR ELEVATIONS

E705

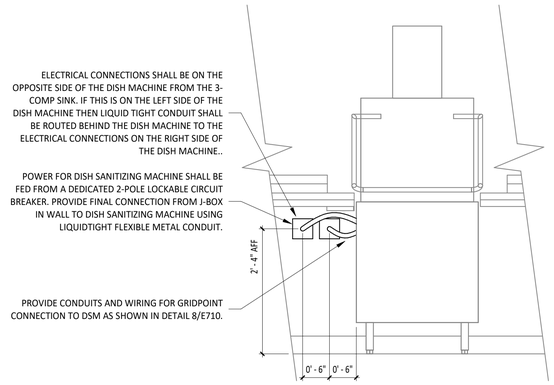
GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CAT5E CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT1".
3. PROVIDE CAT5E CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CAT5E CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CAT5 CABLE FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "RS-485 COMMS" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
8. PROVIDE CABLE (18-24AWG SHIELDED TWISTED PAIR) FROM J-BOX #2 TO OFFICE ABOVE LAY-IN CEILING AND LABEL "EMS POWER" ON BOTH ENDS OF THE CABLE. LEAVE 10' OF SLACK CABLE ABOVE OFFICE CEILING AND 16" OF SLACK CABLE INSIDE OF J-BOX #2.
9. PROVIDE SURFACE MOUNT 10" X 10" X 4" NEMA 1 ENCLOSURES ABOVE PANELBOARDS AND 6" BELOW CEILING.
10. PROVIDE 3/4" CONDUIT WITH INSULATING BUSHING ON END CONCEALED IN WALL FROM J-BOX #2 TO 6" ABOVE LAY-IN CEILING.
11. PROVIDE 3/4" CONDUIT(S) FROM J-BOX #1 TO J-BOX #2.
12. PROVIDE EMPTY 1" CONDUIT(S) FROM PANELBOARD(S) TO J-BOX #1 FOR FUTURE CT WIRING BY TEMS.
13. FIRST PANELBOARD FED FROM ELECTRICAL SERVICE. PROVIDE WITH (1) 20A/3-POLE CIRCUIT BREAKER (FOR GRIDPOINT 3 PHASE METER). IF PANELBOARD HAS 120V CIRCUITS AVAILABLE THEN ALSO PROVIDE (1) 20/1-POLE CIRCUIT BREAKER (FOR GRIDPOINT TRANSFORMER).
14. IF SPACE HAS MULTIPLE ELECTRICAL SERVICES THEN PROVIDE A "J-BOX #1" AND ASSOCIATED BREAKERS, CONDUITS, AND CONDUCTORS ON THE FIRST PANELBOARD FED FROM EACH ELECTRICAL SERVICE.
15. FOR EACH ELECTRICAL SERVICE PROVIDE (1) SET OF [(4) #12, #12 G.] FROM 3-POLE GRIDPOINT CIRCUIT BREAKER AND, IF THE PANELBOARD HAS 120V CIRCUITS AVAILABLE, (1) SET OF [(2) #12, #12 G.] FROM 1-POLE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX #1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
16. IF THE PANELBOARD DOES NOT HAVE 120V CIRCUITS AVAILABLE PROVIDE A 1-POLE 120V 20A CIRCUIT BREAKER IN A PANEL WITH A 120V CIRCUIT AVAILABLE. PROVIDE (1) SET OF [(2) #12, #12 G.] FROM THE GRIDPOINT CIRCUIT BREAKER IN 3/4" CONDUIT CONCEALED IN WALL TO J-BOX #1. TERMINATE IN J-BOX # 1 WITH 16" SLACK FOR FINAL CONNECTION BY TEMS.
17. GRIDPOINT CONTROLLER PROVIDED BY TEMS
18. PROVIDE HORIZONTAL SINGLE-GANG J-BOX BELOW FUTURE GRIDPOINT CONTROLLER LOCATION AS SHOWN. PROVIDE 3/4" CONDUIT WITH PULL STRING AND INSULATING BUSHING FROM J-BOX TO 6" ABOVE OFFICE LAY-IN CEILING.

NOTE:
ARRANGEMENT SHOWN IS DIAGRAMMATIC - SEE PLANS FOR ACTUAL DEVICE LOCATIONS.



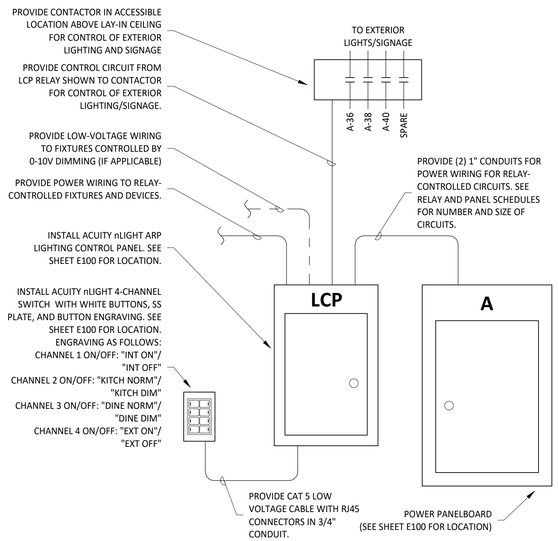
8 / E710 GRIDPOINT WIRING DIAGRAM
NOT TO SCALE



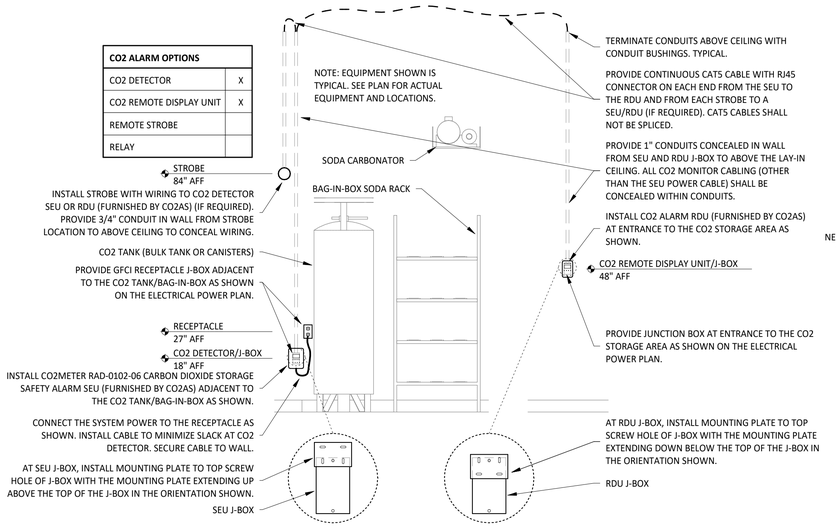
7 / E710 DISH SANITIZING MACHINE ELECTRICAL DETAIL
NOT TO SCALE

SEQUENCE OF OPERATIONS

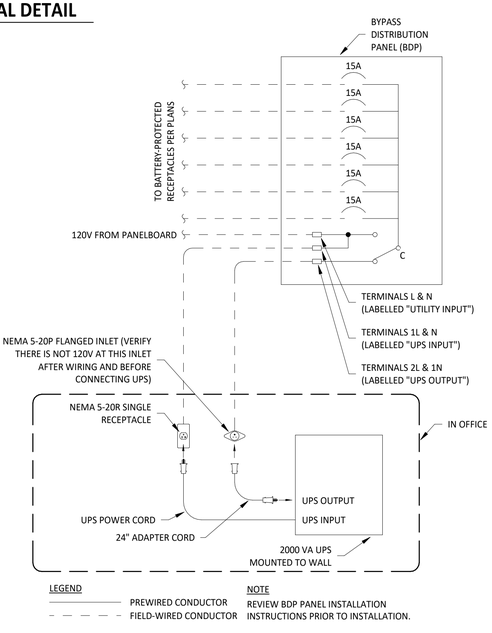
A. EMERGENCY LIGHT FIXTURES, EXIT SIGNS, LOCALLY-SWITCHED FIXTURES, AND FIXTURES DESIGNATED AS NIGHT LIGHTS ARE NOT CONTROLLED THROUGH THE RELAY PANEL.
B. ALL TIMES NOTED SHALL BE LOCAL TIME AND SHALL AUTOMATICALLY ADJUST FOR DAYLIGHT SAVINGS TIME, IF APPLICABLE.
C. ALL KITCHEN LIGHTING CIRCUITS AND RESTROOM EXHAUST FAN CIRCUIT (R1, R2, R7) SHALL BE ENERGIZED AT FULL POWER FROM 7:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
D. ALL DINING ROOM LIGHTING CIRCUITS (R4, R5, R6) SHALL BE ENERGIZED FROM 10:00AM UNTIL MIDNIGHT AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
E. EXTERIOR LIGHTING/SIGNAGE RELAY (R8) SHALL BE ENERGIZED FROM ONE HOUR BEFORE SUNSET UNTIL ONE HOUR AFTER CLOSING AND SHALL BE DE-ENERGIZED AT OTHER TIMES.
F. OVERRIDES: WHEN ONE OF THE OVERRIDE BUTTONS IS PRESSED THE SYSTEM WILL GO INTO OVERRIDE MODE FOR THE DURATION NOTED BELOW OR UNTIL THE NEXT SCHEDULED EVENT. FOLLOWING THIS PERIOD THE RELAYS WILL RETURN TO THE CURRENT SCHEDULED CONDITION. DURING THIS OVERRIDE TIME THE CORRESPONDING LAMP WILL ILLUMINATE ON THE OVERRIDE BUTTON.
G. INTERIOR (CHANNEL 1): WHEN THE INTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 1) RELAYS R1, R2, R4, R5, R6, AND R7 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
H. KITCHEN DIMMING (CHANNEL 2): WHEN THE KITCHEN NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 2) RELAY R2 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
I. DINING DIMMING (CHANNEL 3): WHEN THE DINING NORMAL/DIM OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 3) RELAYS R5 AND R6 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
J. EXTERIOR (CHANNEL 4): WHEN THE EXTERIOR OVERRIDE ON OR OFF BUTTON IS PRESSED (CHANNEL 4) RELAY R8 WILL BE ENERGIZED OR DE-ENERGIZED FOR A DURATION OF ONE (1) HOUR.
K. VERIFY THAT TIME, TIME ZONE, AND LONGITUDE/LATITUDE ARE SET CORRECTLY ON LCP. VERIFY WITH STORE OPERATIONS THAT THE ON/OFF TIMES ARE COMPATIBLE WITH THE STORE OPERATING HOURS PRIOR TO TURNOVER.



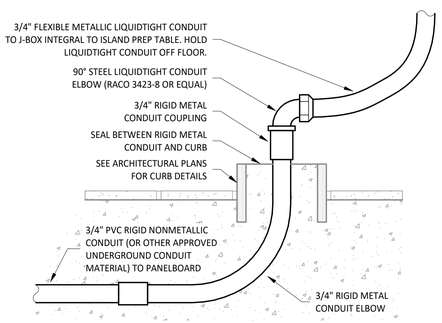
6 / E710 LIGHTING CONTROL DIAGRAM
NOT TO SCALE



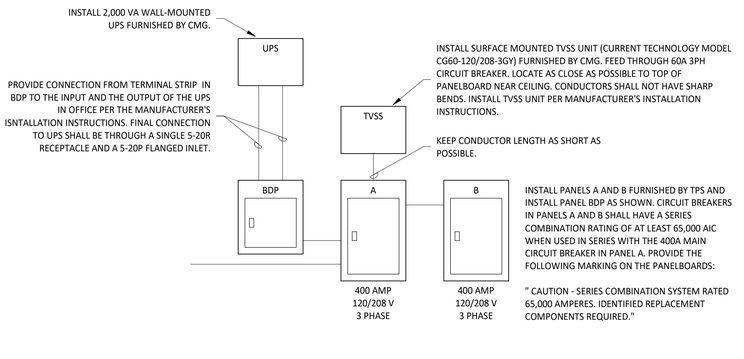
4 / E710 CO2 ALARM DETAIL
NOT TO SCALE



3 / E710 BYPASS DISTRIBUTION PANEL WIRING DIAGRAM
NOT TO SCALE



2 / E710 PEDESTAL OUTLET DETAIL
NOT TO SCALE



1 / E710 MAIN DISTRIBUTION DIAGRAM
NOT TO SCALE

5 / E710 NOT USED
NOT TO SCALE

Consultant:

Bowman

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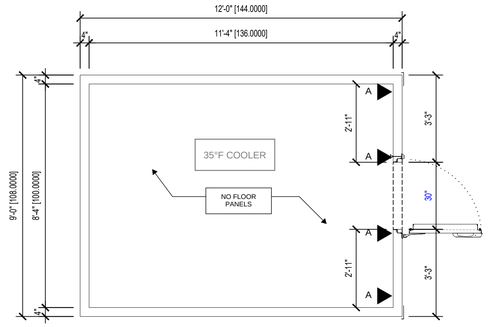
Project No.: 230426

Contents:

ELECTRICAL DETAILS

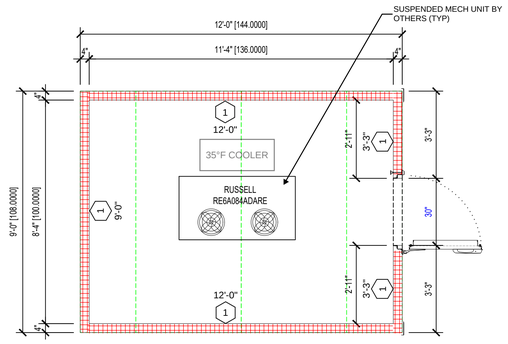
E710



SLAB PLAN 3/8"=1'-0" 1

UNIT DESCRIPTION

1. OVERALL HEIGHT OF WALK-IN = 114 IN
2. WALL
   THICKNESS = 4"
   RAIL TYPE = FOAM
   INTERIOR SKIN = 26 GA ACRYLUME
   EXTERIOR SKIN = 26 GA ACRYLUME
3. CEILING
   THICKNESS = 4"
   RAIL TYPE = FOAM
   INTERIOR SKIN = 26 GA ACRYLUME
   EXTERIOR SKIN = 26 GA ACRYLUME



WALL/CEILING PANEL PLAN 3/8"=1'-0" 2

STRUCTURAL NOTES

GENERAL

1. WALK-IN COOLERS AND FREEZERS ARE MANUFACTURED BY:

   THERMALRITE

   15600 37TH AVENUE N., SUITE 100
   PLYMOUTH, MN 55446

   PANELS ARE CONSTRUCTED IN ACCORDANCE WITH LARR 24543.
2. ANCHORAGE DETAILS PROVIDED MAY ONLY BE USED IF THE OWNER VERIFIES THE REQUIREMENTS OF THE DETAILS CAN BE MET. OTHERWISE, ANCHORAGE SHALL BE PRESCRIBED BY A REGISTERED DESIGN PROFESSIONAL TO MEET SITE CONDITIONS.
3. POST INSTALLED ANCHORS REQUIRE SPECIAL INSPECTION PER SECTION 1705.1 OF THE APPLICABLE CODE.
4. FOUNDATION DESIGN AND DOCUMENTATION BY OTHERS.
5. DESIGN OF SOIL (BEARING, PASSIVE RESISTANCE, ETC...) SHALL BE BY OTHERS.

DESIGN DATA

SITE LOCATION: SAN PABLO, CA

APPLICABLE CODE: 2022 CALIFORNIA BUILDING CODE (2022 CBC) AND LATEST REVISIONS

DESIGN LOADS

1. ROOF LIVE LOAD = 10 PSF
2. SEISMIC ANALYSIS PER CHAPTER 16 OF THE CODE UTILIZING THE FOLLOWING PROCEDURE:
   - EQUIVALENT LATERAL FORCE PROCEDURE

   RISK CATEGORY = II
   IMPORTANCE FACTOR = 1.00
   SITE CLASS = D (DEFAULT)
   S_{DS} = 1.926
   SEISMIC DESIGN CATEGORY = E

   GROUND MOTION USED:
   - CODE DESIGN RESPONSE SPECTRUM

SHEET NOTES

1. INDICATES TYPICAL WALL PER DETAIL 1/QS-2.
2. 1 / X'-X" — INDICATES RESISTIVE WALL TYPE PER DETAIL 2/QS-2. INDICATES MINIMUM RESISTIVE WALL LENGTH.
3. INDICATES CEILING PANEL JOINT.
4. NOT USED
5. NOT USED
6. A — INDICATES HOLDOWN STRAP TYPE PER DETAIL 6/QS-2.
7. NOT USED
8. NOT USED
9. NOT USED
10. NOT USED
11. NOT USED
12. NOT USED
13. NOT USED
14. NOT USED

EVERIDGE
Every step of the way
THERMALRITE
15600 37TH AVE N. SUITE 100
PLYMOUTH, MN 55446
PHONE (763) 541-1410 FAX (763) 541-1563
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kpff
18400 Von Karman Ave., Suite 600
Irvine, CA 92612
O: 949.252.1022
F: 949.252.8082
www.kpff.com

Seal/Signature

REV	DESCRIPTION	DATE	BY

KPFF ENGINEER.: CT
KPFF PROJECT NO.: 240027

Customer/Dealer

CHIPOTLE MEXICAN GRILL
500 NEIL AVENUE, SUITE 400
COLUMBUS, OH 43215

Site Information

CHIPOTLE #4825

4200 KLOSE WAY SUITE B
SAN PABLO, CA94806

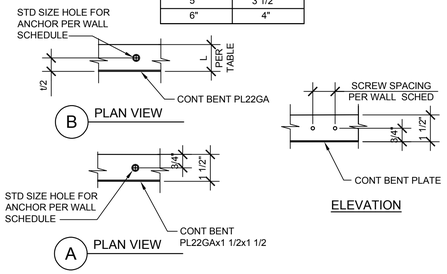
Create Dwg Date: 5/16/2024

Project # E073467-01

Sheet # QS-1

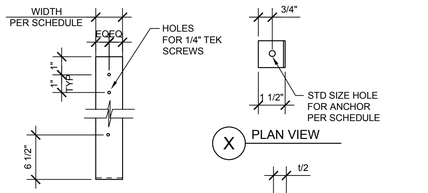
FOR REFERENCE ONLY

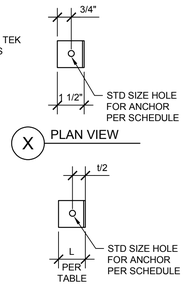
BENT PLATE DIMENSIONS	
WALL PANEL THICKNESS, t	HORIZONTAL LEG, L
3 1/2"	2 1/2"
4"	3"
5"	3 1/2"
6"	4"



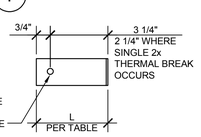
CONTINUOUS BENT PLATE

3"=1'-0" | 5





BENT PLATE DIMENSIONS	
WALL PANEL THICKNESS, t	HORIZONTAL LEG, L
3 1/2"	2 1/2"
4"	3"
5"	3 1/2"
6"	4"



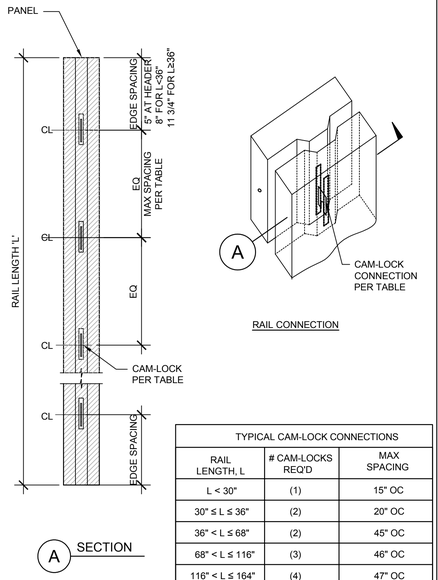
STRAP SCHEDULE				
TYPE	ATTACHMENT TO PANEL	ANCHORAGE TO SLAB	WIDTH	THICKNESS
A	(4) 1/4-14 TEK SCREWS	3/8" Ø HILTI KH-EZ (ICC ESR-3027, LARR 25897) W/ 2 1/2" MIN EMBEDMENT	1 1/2"	20GA
B	NOT USED			
C	NOT USED			

NOTES:

1. MIN F_u FOR STRAPS 16GA OR GREATER SHALL BE 50 KSI.
2. MIN F_y FOR STRAPS 18GA OR LESS SHALL BE 33 KSI.

HOLDOWN STRAP

3"=1'-0" | 6

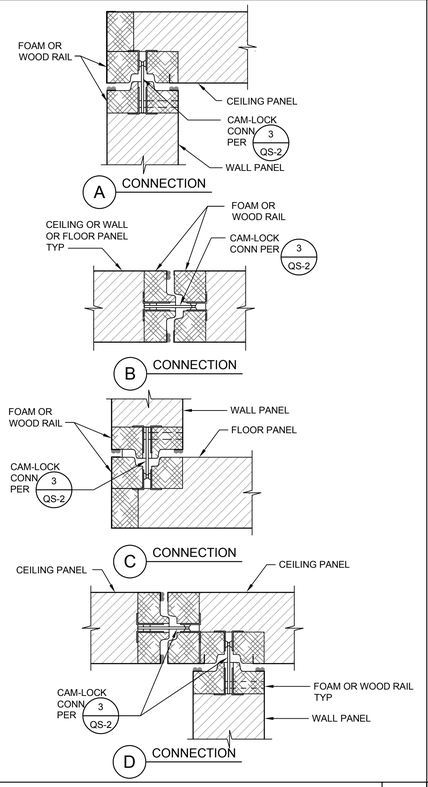


RAIL CONNECTION

TYPICAL CAM-LOCK CONNECTIONS		
RAIL LENGTH, L	# CAM-LOCKS REQ'D	MAX SPACING
L < 30"	(1)	15" OC
30" ≤ L ≤ 36"	(2)	20" OC
36" < L ≤ 68"	(2)	45" OC
68" < L ≤ 116"	(3)	46" OC
116" < L ≤ 164"	(4)	47" OC
164" < L ≤ 212"	(5)	47" OC
212" < L ≤ 263.5"	(6)	48" OC
263.5" < L ≤ 300"	(7)	46" OC

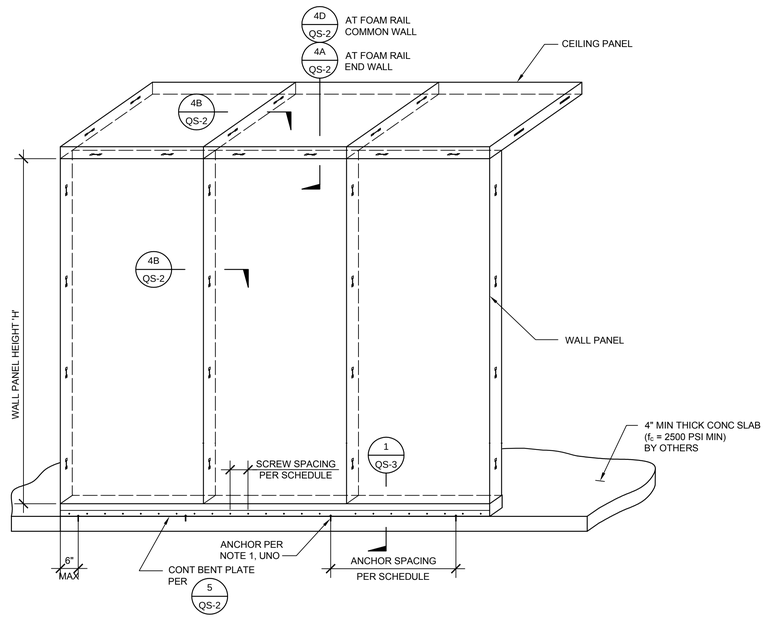
TYP RAIL AND CAM SPACING

1 1/2"=1'-0" | 3



TYPICAL PANEL CONNECTIONS

3"=1'-0" | 4



TYPICAL WALL CONSTRUCTION

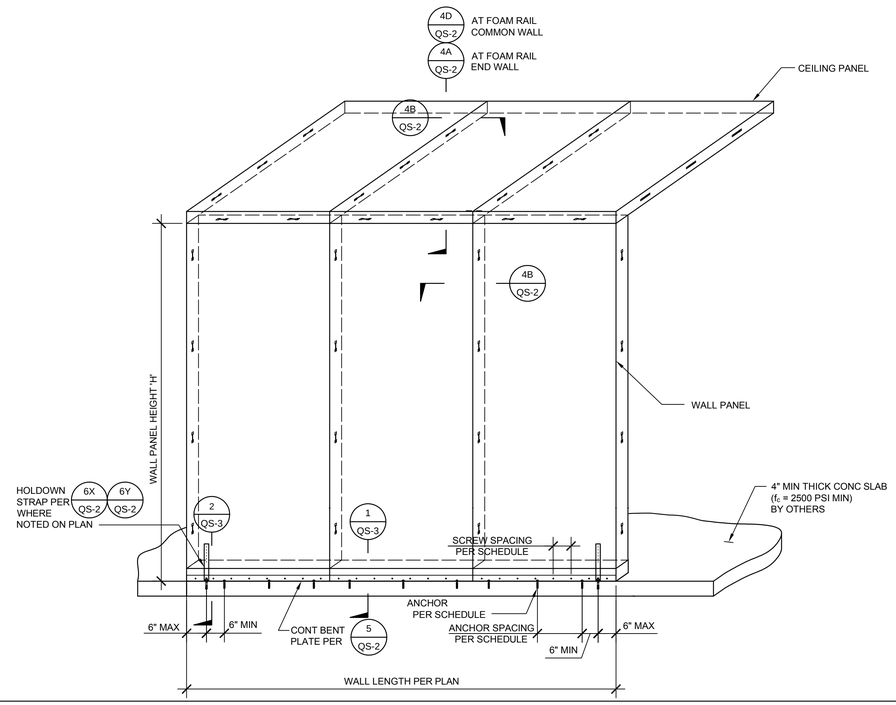
1/2"=1'-0" | 1

TYPICAL WALL SCHEDULE		
WALL PANEL HEIGHT	MAX ANCHOR SPACING	MAX SCREW SPACING
H ≤ 144" (12')	48" OC	23" OC
144" < H ≤ 180" (12' < H ≤ 15')	48" OC	18" OC
180" < H ≤ 216" (15' < H ≤ 18')	48" OC	15" OC
216" < H ≤ 252" (18' < H ≤ 21')	48" OC	12" OC
252" < H ≤ 300" (21' < H ≤ 25')	40" OC	10" OC

(INTERIOR, S_{DS} ≤ 1.50)

NOTES:

1. ANCHORS SHALL BE 1/4"Ø HILTI 'KH-EZ' W/ 1 5/8" MIN EMBED (ICC ESR-3027, LARR 25897), TYP, UNO.
2. AT THERMAL BREAK PROVIDE 8d COMMON NAIL @ 12" OC.
3. PROVIDE MIN (2) ANCHORS PER BENT PLATE.



RESISTIVE WALL CONSTRUCTION

1/2"=1'-0" | 2

RESISTIVE WALL SCHEDULE			
WALL TYPE	ANCHOR TYPE	MAX ANCHOR SPACING	MAX SCREW SPACING
1	3/8"Ø HILTI 'KH-EZ' (ICC ESR-3027, LARR 25897) W/ 2 1/2" MIN EMBED	48" OC	23" OC
2	NOT USED		
3	NOT USED		

NOTES:

1. PROVIDE MIN (2) ANCHORS PER BENT PLATE.

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18400 Von Karman Ave., Suite 600
Irvine, CA 92612
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F: 949.252.8082
www.kpff.com

Seal/Signature

REV	DESCRIPTION	DATE	BY

KPFF ENGINEER.: CT
KPFF PROJECT NO.: 240029

Customer/Dealer
CHIPOTLE MEXICAN GRILL
500 NEIL AVENUE, SUITE 400
COLUMBUS, OH 43215

Site Information
CHIPOTLE #4825
4200 KLOSE WAY SUITE B
SAN PABLO, CA94806

FOR REFERENCE ONLY

Create Dwg Date: 5/16/2024
Project # E073467
Sheet # QS-2

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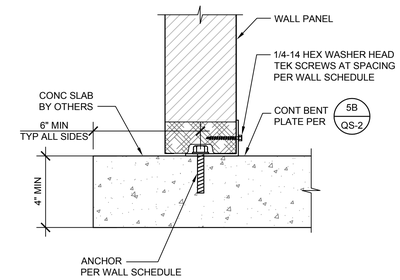
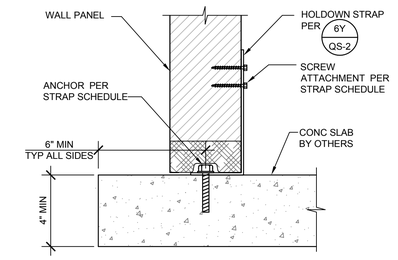


NOTE: SPECIAL INSPECTION REQUIRED FOR POST-INSTALLED ANCHORS.

SLAB CONN - UNDER WALL 3"=1'-0" **1**



NOTE: SPECIAL INSPECTION REQUIRED FOR POST-INSTALLED ANCHORS.

HOLDOWN CONN - UNDER WALL 3"=1'-0" **2**

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Seal/Signature

REV	DESCRIPTION	DATE	BY

KPFF ENGINEER.: CT
KPFF PROJECT NO.: 240027

Customer/Dealer
CHIPOTLE MEXICAN GRILL
500 NEIL AVENUE, SUITE 400
COLUMBUS, OH 43215

Site Information
CHIPOTLE #4825
4200 KLOSE WAY SUITE B
SAN PABLO, CA94806

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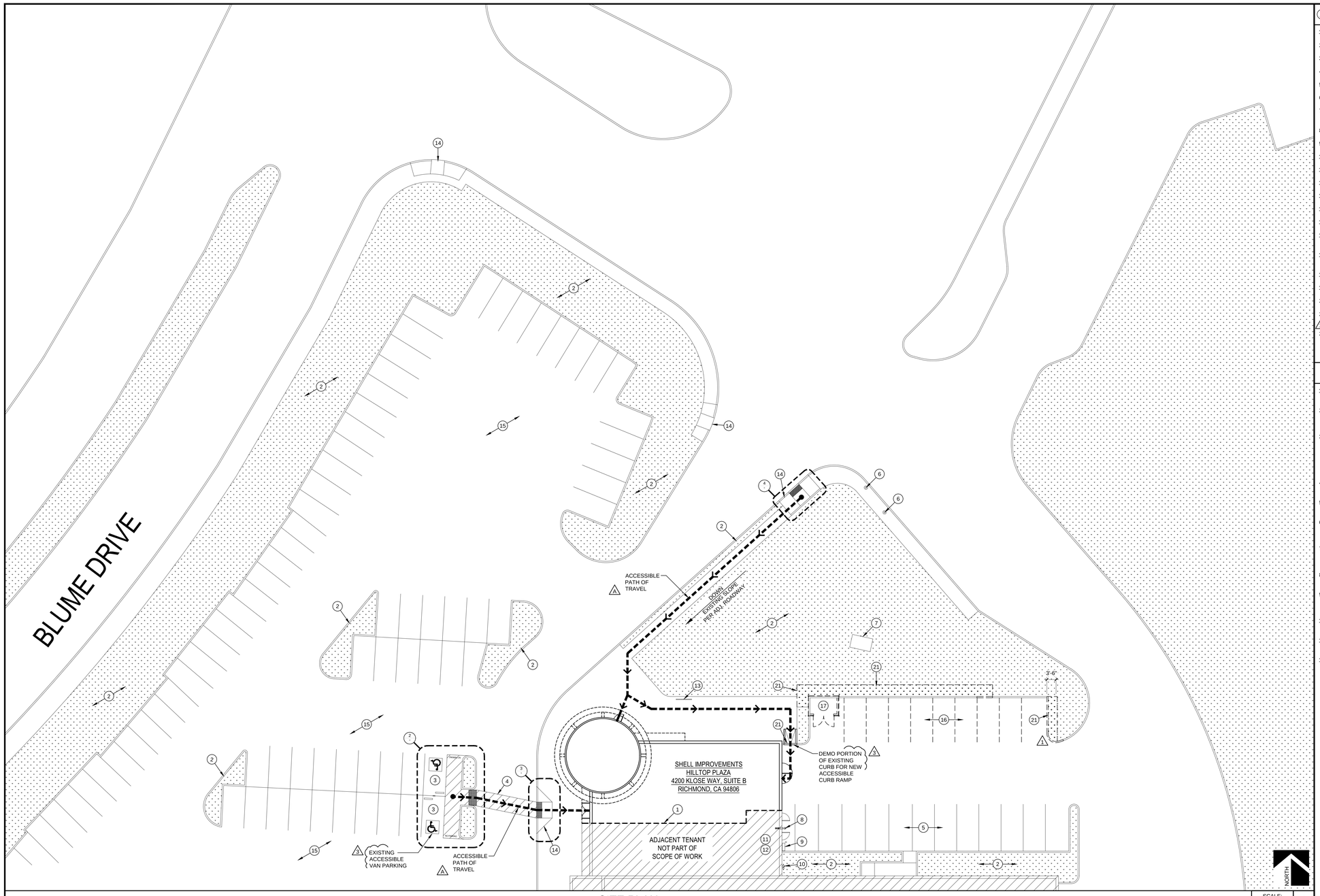
Create Dwg Date: 5/16/2024
Project # E073467
Sheet # QS-3



SITE PLAN

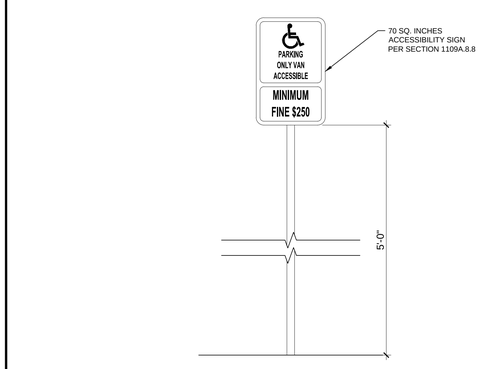
SCALE: 1/16" = 1'-0" | 1

KEYNOTES:

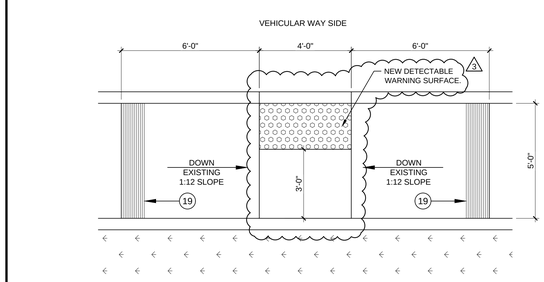
1. EXTENT OF LANDLORD BUILDING LEASE LINE.
2. EXISTING LANDSCAPING TO REMAIN, TYPICAL.
3. EXISTING ACCESSIBLE PARKING TO REMAIN.
4. EXISTING ACCESSIBLE PATH TO REMAIN.
5. EXISTING PARKING PAVEMENT STRIPING TO REMAIN, TYPICAL.
6. EXISTING FIRE HYDRANT TO REMAIN.
7. EXISTING ELECTRICAL TRANSFORMER TO REMAIN, SEE ELECTRICAL DRAWINGS.
8. EXISTING FIRE SPRINKLER RISER TO REMAIN.
9. EXISTING WATER METER TO REMAIN.
10. EXISTING GAS METER TO REMAIN.
11. EXISTING SES ELECTRICAL CABINET TO REMAIN.
12. EXISTING FIRE ALARM PANEL TO REMAIN.
13. EXISTING BIKE RACK TO REMAIN.
14. EXISTING ACCESSIBLE CURB RAMP TO REMAIN.
15. EXISTING PARKING LOT TO REMAIN, NO NEW WORK.
16. DEMO EXISTING PARKING PAVEMENT STRIPING. SEE SHEET SD2.0 FOR NEW LAYOUT.
17. DEMO AND RELOCATE EXISTING TRASH ENCLOSURE. SEE SHEET SD2.0 FOR NEW LOCATION AND LAYOUT.
18. EXISTING WHEEL STOP TO REMAIN.
19. EXISTING ACCESSIBLE DETECTABLE WARNING SURFACE TO REMAIN.
20. EXISTING ACCESSIBLE PARKING SIGN TO REMAIN, RE: DETAIL 4.
21. DEMO PORTION OF EXISTING LANDSCAPING / CURB. SEE SHEET SD2.0 FOR NEW LAYOUT.
22. ACCESSIBLE DETECTABLE WARNING SURFACE FULL WIDTH OF EXISTING MEDIAN.

GENERAL DEMO NOTES:

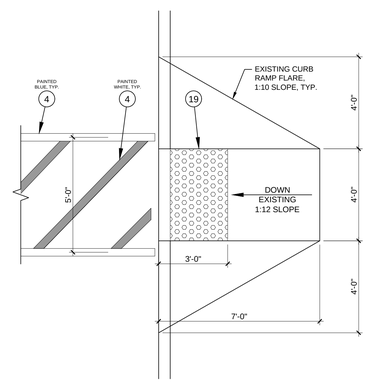
1. GENERAL CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS OF CURRENT SOILS REPORT (COMPLETED WITHIN THE PAST YEAR).
2. GENERAL CONTRACTOR SHALL VERIFY ALL DIMENSIONS ON DRAWINGS FOR CONFLICTS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT OF ANY DISCREPANCIES.
3. NO STRUCTURE OF ANY KIND TO BE CONSTRUCTED ON, OR PLACED WITHIN PUBLIC UTILITY EASEMENTS EXCEPT WOOD, WIRE OR REMOVABLE SECTION TYPE FENCING, PAVING NOR ANY PLANTING EXCEPT GRASS. GENERAL CONTRACTOR SHALL BE REQUIRED TO REPLACE ANY OBSTRUCTIONS OR PLANTING THAT MUST BE REMOVED DURING THE COURSE OF MAINTENANCE, CONSTRUCTION OR RECONSTRUCTION OF THE PUBLIC UTILITIES.
4. COORDINATE WATER (DOMESTIC AND FIRELINE) AND GAS METER LOCATIONS WITH MEP DRAWINGS (AND WITH CIVIL IF PROVIDED).
5. COORDINATE TRANSFORMER PAD LOCATIONS WITH ELECTRICAL DRAWINGS (AND WITH CIVIL IF PROVIDED).
6. ANY DAMAGE BY GENERAL CONTRACTOR OR SUB CONTRACTOR TO EXISTING PAVEMENT, SIDEWALKS AND / OR EXISTING LANDSCAPING SHALL BE REPAIRED/REPLACED AT NO COST TO THE OWNER.
7. GENERAL CONTRACTOR SHALL VERIFY ALL ON SITE CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES OR OMISSIONS PRIOR TO CONSTRUCTION.
8. GENERAL CONTRACTOR TO SCHEDULE UTILITY LOCATIONS & INSPECTIONS AND NOTIFY ARCHITECT OF ANY DISCREPANCIES BEFORE BEGINNING ANY WORK.
9. REFER TO ELECTRICAL SHEETS FOR ANY REQUIRED SITE LIGHTING, SITE POWER, IRRIGATION CONTROLLER POWER, PARKING FIELD LIGHTING, EXT. SPROUTS BUILDING LIGHTING, AND MONUMENT SIGN POWER NIC.
10. ANY MONUMENT SIGNS ARE A SEPARATE PERMIT BY OTHERS. MONUMENT SIGNS SHOWN ON THIS PLAN ARE FOR INFORMATIONAL PURPOSES ONLY.
11. FIRE LINES SHALL REMAIN OPEN / ACCESSIBLE AT ALL TIMES DURING CONSTRUCTION.
12. GENERAL CONTRACTOR SHALL FIELD VERIFY ALL INVERT POINTS AND UNDERGROUND POINTS OF CONNECTIONS BEFORE ANY CONSTRUCTION ACTIVITIES.



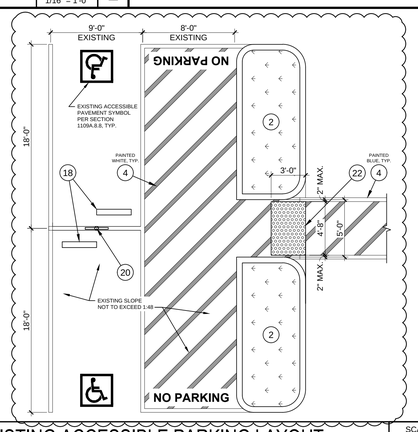
EXISTING ACCESSIBLE PARKING SIGN | SCALE: 1 1/2" = 1'-0" | 5



EXISTING ACCESSIBLE CURB RAMP | SCALE: 3/8" = 1'-0" | 4



EXISTING ACCESSIBLE CURB RAMP | SCALE: 3/8" = 1'-0" | 3



EXISTING ACCESSIBLE PARKING LAYOUT | SCALE: 3/16" = 1'-0" | 2

23017

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SHELL IMPROVEMENTS
RICHMOND, CA

REVISION:

2	1ST CITY COMMENTS	10/11/23
1	LANDLORD COMMENTS	12/04/23
3	T.I. CITY COMMENTS	05/06/24

LICENSED ARCHITECT
RICHARD M. REDPATH
C30874
REN: 01/31/2025
5/31/24
STATE OF CALIFORNIA

CONSTRUCTION BID SET - 02/22/24

SHELL IMPROVEMENTS
4200 KLOSE WAY, SUITE B
RICHMOND, CA 94806

SITE PLAN

DATE:	05-31-24
DRAWN BY:	NM
CHECKED BY:	DS
SCALE:	AS NOTED
PROJECT NUMBER:	23017
SHEET	SD1.0
REV:	

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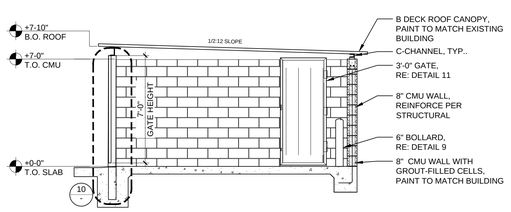
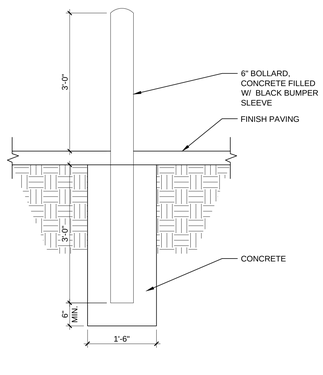
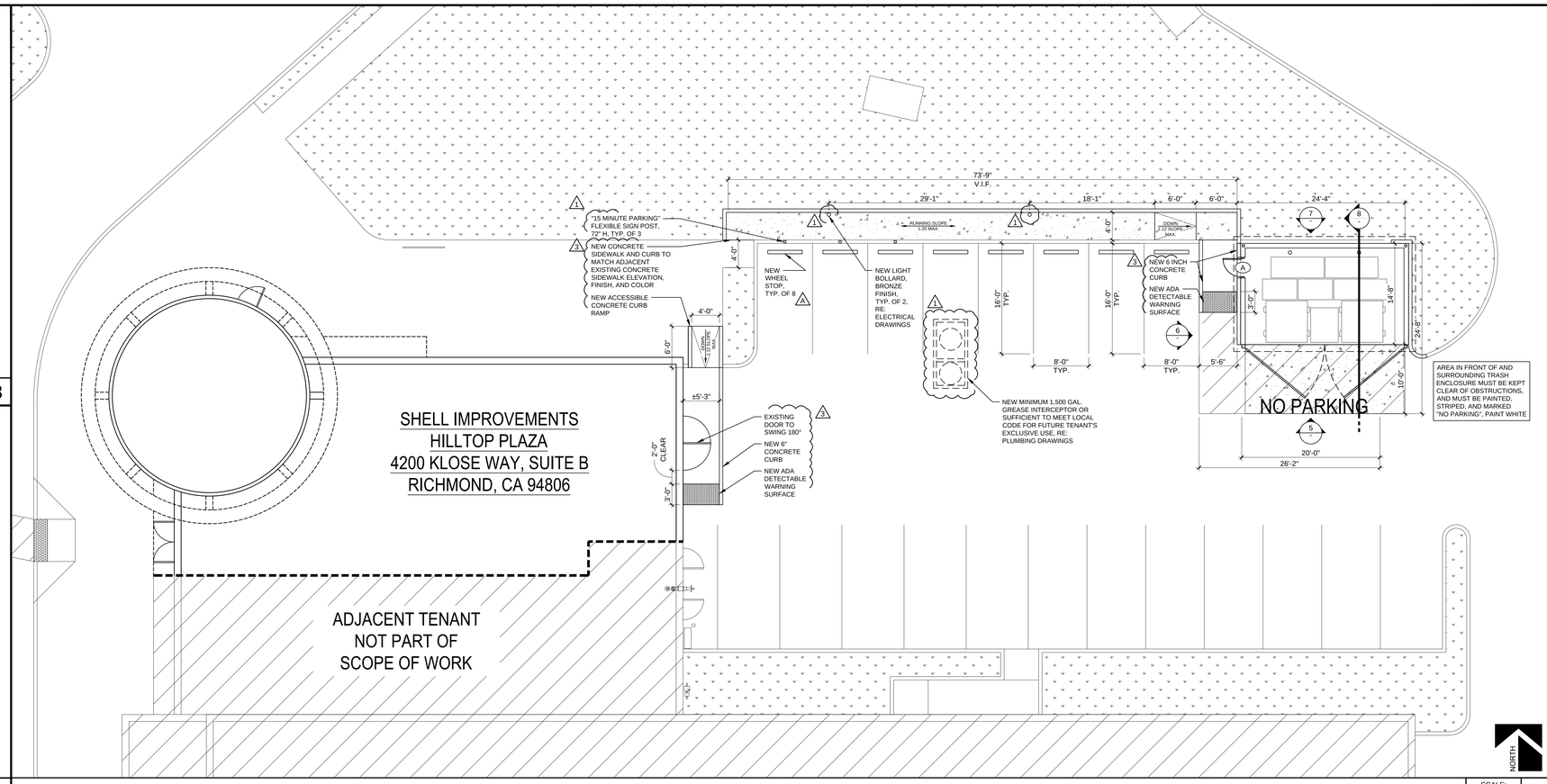


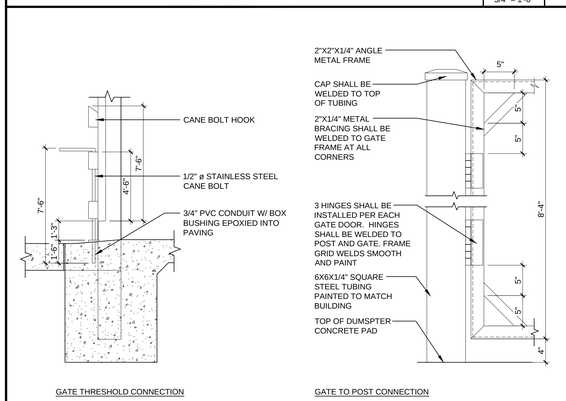
TRASH ENCLOSURE SECTION — SCALE: 1/4" = 1'-0" — 8



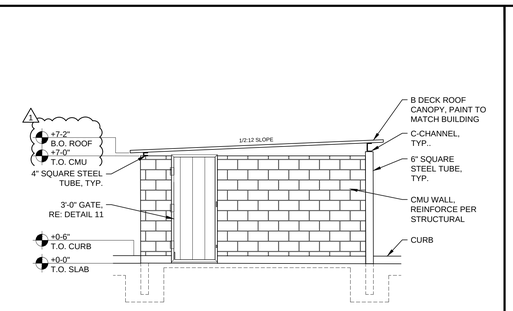
BOLLARD DETAIL — SCALE: 3/4" = 1'-0" — 9



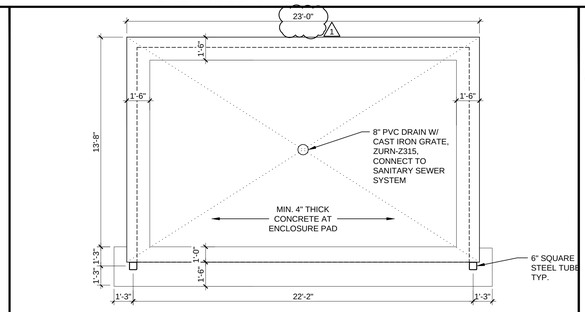
ENLARGED SITE PLAN — SCALE: 1/8" = 1'-0" — 1



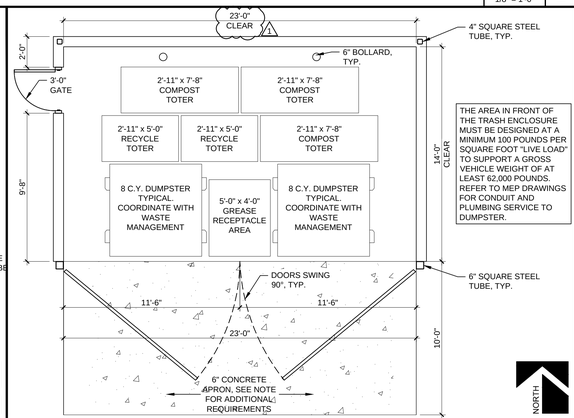
PRIMARY METAL GATE DETAILS — SCALE: 1/4" = 1'-0" — 10



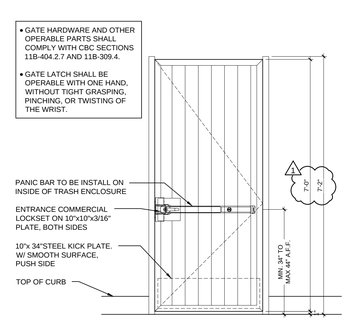
TRASH ENCLOSURE SIDE ELEVATION — SCALE: 1/4" = 1'-0" — 6



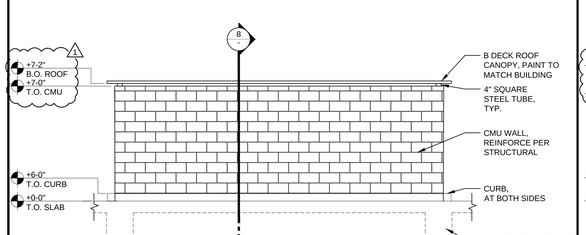
TRASH ENCLOSURE FOUNDATION PLAN — SCALE: 1/4" = 1'-0" — 4



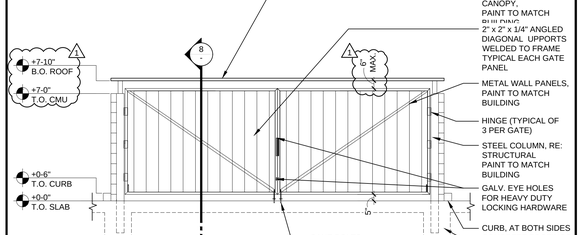
TRASH ENCLOSURE PLAN — SCALE: 1/4" = 1'-0" — 2



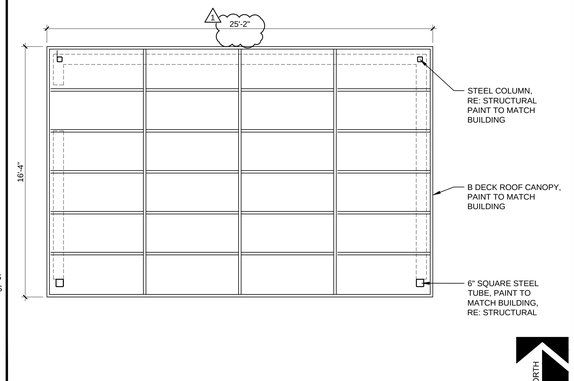
SECONDARY METAL GATE DETAIL — SCALE: 1/2" = 1'-0" — 11



TRASH ENCLOSURE REAR ELEVATION — SCALE: 1/4" = 1'-0" — 7



TRASH ENCLOSURE FRONT ELEVATION — SCALE: 1/4" = 1'-0" — 5



TRASH ENCLOSURE RCP — SCALE: 1/4" = 1'-0" — 3

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ENLARGED SITE PLAN AND DETAILS

DATE: 05-31-24
DRAWN BY: NM
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REV:

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