

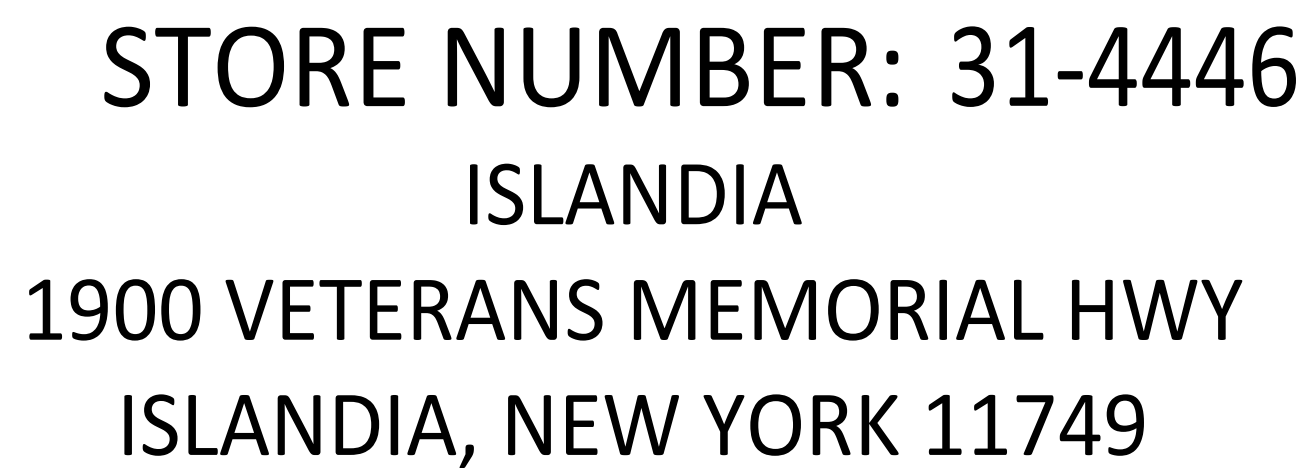
<u>ZONING</u> <u>DEPARTMENT:</u>	INCORPORATED VILLAGE OF ISLANDIA 1100 OLD NICHOLS ROAD ISLANDIA, NEW YORK 11749 CONTACT: KEITH KELLNER T: (631) 348-1133	<u>BUILDING</u> <u>DEPARTMENT:</u>	INCORPORATED VILLAGE OF ISLANDIA 1100 OLD NICHOLS ROAD ISLANDIA, NEW YORK 11749 CONTACT: KEITH KELLNER T: (631) 348-1133	<u>HEALTH</u> <u>DEPARTMENT:</u>	SUFFOLK COUNTY DEPARTMENT OF HEALTH SERVICES TRAINING AND PLAN REVIEW UNIT 360 YAPHANK AVENUE SUITE 2A YAPHANK, NY 11980 CONTACT: BRIAN NOONE T: (631) 852-5858
<u>FIRE</u> <u>DEPARTMENT:</u>	INCORPORATED VILLAGE OF ISLANDIA 1100 OLD NICHOLS ROAD ISLANDIA, NEW YORK 11749 CONTACT: KEVIN PETERSON T: (631) 348-1133	<u>WATER</u> <u>UTILITY:</u>	SUFFOLK COUNTY WATER & SEWER 4060 SUNRISE HWY, OAKDALE, NY 11769 CONTACT: BORRIS RUKOVTS T: (631) 852-4199	<u>SEWER</u> <u>UTILITY:</u>	OFFICE OF WASTE WATER MANAGEMENT 360 YAPHANK AVENUE, SUITE 2C YAPHANK, NY 11980 CONTACT: CRAIG KNEPPER T: (631) 852-5700
<u>NATURAL</u> <u>GAS UTILITY:</u>	NATIONAL GRID OF LONG ISLAND PO BOX 371382 PITTSBURGH, PA 15250 T: (800) 930-5003	<u>ELECTRIC</u> <u>UTILITY:</u>	PSE&G LONG ISLAND 175 E. OLD COUNTY RD, HICKSVILLE, NY 11801 T: (800) 490-6378		SUFFOLK COUNTY WATER & SEWER 4060 SUNRISE HWY, OAKDALE, NY 11769 CONTACT: BORRIS RUKOVTS T: (631) 852-4199

<u>LANDLORD:</u>	ISLANDIA JAZ LLC C/O MR. BOB DELAWARE BRESLIN REALTY DEVELOPMENT CORP. 500 GARDEN CITY, NY. 11530 CONTACT: BOB ROSENBERG E: ROSENBERG@BRESLINREALTY.COM T: (516)741-7400	<u>TENANT:</u>	CHIPOTLE MEXICAN GRILL PO BOX 182566 COLUMBUS, OH 43218-2566 CONTACT: EDMUND YU E: E.YU@CHIPOTLE.COM T: (203) 988-9572	<u>ARCHITECT:</u>	HBC ARCHITECTS P.C. 122 WEST 27TH STREET, 4TH FL NEW YORK, NEW YORK 10001 CONTACT: JOSEPH CORRIDORE E: JOSEPHC@HBCARCH.COM T: (212) 647-0011 T: (347) 821-3048
<u>MECHANICAL ELECTRICAL PLUMBING ENGINEER:</u>	NATIONAL ENGINEERING 4635 TRUEMAN BLVD. SUITE 250 HILLIARD, OHIO 43026 CONTACT: CLIFF KIGAR E: CKIGAR@NATIONALENGINEERING.COM T: (614) 328-2033				

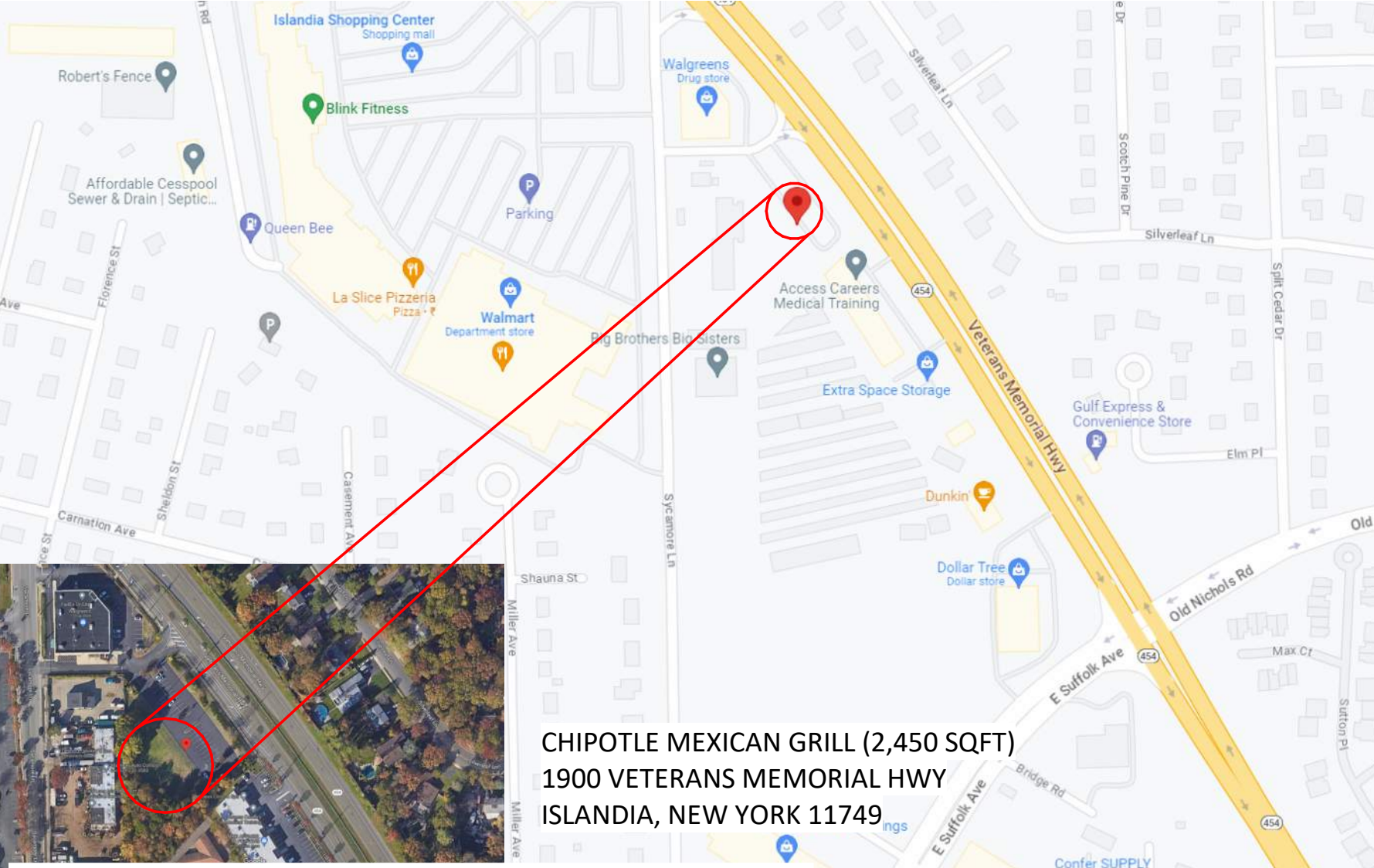
 NOTE to GC:
 **FOR ALL WATER, SEWER,
 NATURAL GAS, & ELECTRICITY**
 UTILITIES CONTACT:

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

CE	CENTER LINE	FRP	FIBERGLASS REINFORCED PANEL	OC	ON CENTER	TLS	TENANT'S LIGHT/LAMP SUPPLIER
(E)	EXISTING CONSTRUCTION	FRT	FIRE RETARDANT-TREATED	OSB	ORIENTED STRAND BOARD	TMB	TENANT'S MENU BOARD SUPPLIER
(N)	NEW CONSTRUCTION					TMS	TENANT'S MILLWORK SUPPLIER
@	AT	GA	GAUGE	POS	POINT OF SALE	TP	TENANT'S PHONE SUPPLIER
Ø	DIAMETER OR ROUND	GALV	GALVANIZED	PREP	PREPARATION	TPS	TENANT PANELBOARD SUPPLIER
AFF	ABOVE FINISH FLOOR	GC	GENERAL CONTRACTOR	PVC	POLYVINYL CHLORIDE	TRS	TENANT'S RAILING SUPPLIER
ALUM	ALUMINUM	GYP	GYPSPUM	QT	QUARRY TILE	TS	TENANT'S SAFE SUPPLIER
ARCH	ARCHITECT(URAL)	HES	TENANT'S HVAC EQUIPMENT SUPPLIER	R	RADIUS	TSS	TENANT'S SMART SAFE SUPPLIER
ASS	ALARM SYSTEM SUPPLIER	HS	HOOD SUPPLIER	RTU	ROOF TOP UNITS	TSV	TENANT'S SIGN VENDOR
BD	BOARD	HVAC	HEATING AND VENTILATING	SIM	SIMILAR	TUV	TENANT'S UV SUPPLIER
BLDG	BUILDING	ICP	INITIAL COST PROJECTION	SPS	SODA POP SUPPLIER	TYP	TYPICAL
CMU	CONCRETE MASONRY UNIT	IFP	IN FOR PERMIT	SS	SUPPORT SIGNAGE	U.N.O.	UNLESS NOTED OTHERWISE
CO2	CO2 SUPPLIER	INT	INTERIOR	STR	STRUCTURE	UPS	UNINTERRUPTED POWER SUPPLY
CO2AS	CO2 ALARM SUPPLIER			T	TENANT		
CS	CHEMICAL SUPPLIER	KE5	KITCHEN EQUIPMENT SUPPLIER	TAB	TENANT'S TEST & BALANCE VENDOR		
				TBD	TO BE DETERMINED, SEE FIELD REFERENCE	VAR	VARIES
DIM	DIMENSION(S)	MAX	MAXIMUM	TCC	TENANT'S CABLING CONTRACTOR	VIF	VERIFY IN FIELD
EA	EACH	MECH	MECHANICAL	TDC	TENANT'S DUCT CLEANER	W/	WITH
EL	ELEVATION (VERTICAL HEIGHT)	MFR	MANUFACTURER	TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER	WA	WASHROOM ACCESSORIES
ELEC	ELECTRIC(AL)	MISC	MISCELLANEOUS	THS	TENANT'S HARDWARE SUPPLIER	WCS	TENANT'S WALK-IN COOLER SUPPLIER
ELEV	ELEVATION	MSS	MUSIC SYSTEMS SUPPLIER			WHS	WATER HEATER SUPPLIER
EQ	EQUAL					WS	TENANT'S WINDOW SHADE SUPPLIER
EXT	EXTERIOR	N.I.C.	NOT IN CONTRACT				
FC	FOR CONSTRUCTION	NO	NUMBER				



NEW FREESTANDING BUILDING		
<u>GROUP</u>	<u>TENANT</u>	<u>USE</u>
PROPOSED USE:	CHIPOTLE MEXICAN GRILL	B



SHEET NO.	SHEET NAME	REVISION														
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
COVER SHEET																
T000	COVER SHEET															
GENERAL																
G001	PROJECT DATA & LIFE SAFETY PLAN															
G002	FEMA MAP															
G003	ACCESSIBILITY REQUIREMENTS															
G010	ARCHITECTURAL SPECIFICATIONS															
G011	ARCHITECTURAL SPECIFICATIONS															
G012	ARCHITECTURAL SPECIFICATIONS															
G013	ARCHITECTURAL SPECIFICATIONS															
G014	ARCHITECTURAL SPECIFICATIONS															
G015	ARCHITECTURAL SPECIFICATIONS															
G016	ARCHITECTURAL SPECIFICATIONS															
G017	ARCHITECTURAL SPECIFICATIONS															
SITE PLAN																
ST100	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 & UNISTRUT PLAN															
A210	CEILING DETAILS															
A211	LIGHTING DETAILS															
A301	EXTERIOR ELEVATIONS															
A401	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															
HVAC																
M010	HVAC SPECIFICATIONS															
M100	HVAC PLAN															
M600	HVAC SCHEDULES															
M700	HVAC DETAILS															
PLUMBING																
P010	PLUMBING SPECIFICATIONS															
P100	PLUMBING PLAN WATER & GAS															
P110	PLUMBING PLAN WASTE & VENT															
P600	PLUMBING SCHEDULES															
P700	PLUMBING DETAILS				</											

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ISLANDIA
1900 VETERANS MEMORIAL HWY
ISLANDIA, NEW YORK 11749

PERMIT SET
01/23/2024

Revisions

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Contents

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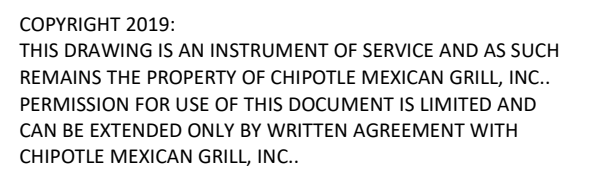
An aerial photograph of a coastal area in Long Island, New York. A yellow line runs diagonally from the bottom left towards the center, separating the 'Village of Islandia 361623' (top left) from the 'Town of Islip 365337' (bottom left). A major highway, likely I-495, runs diagonally from the top left towards the bottom right. A red dot is located near the center of the image, just above the highway, with the text 'AREA OF MINIMAL FLOOD HAZARD' and 'Zone X' overlaid. The surrounding area is densely populated with residential houses and trees, with some commercial buildings visible near the highway.

Basemap Imagery Source: USGS National Map 2023

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

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STORE NO.: 31-4446

ISLANDIA

1900 VETERANS MEMORIAL HWY
ISLANDIA, NEW YORK 11749

PERMIT SET
01/23/2024

[illegible]

Contents:

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2.1 Materials: A. Resinous Flooring: Manufacturer: aiflooring - Contact: 1218 West 41st Street, Suite 8, Tulsa, Oklahoma 74107. Phone: 918-445-0627 2.1 Flooring System: A. System Description: Clear, thin film system 18-22 mils thick with texture agent added for slip resistance. - TerraPrime: A 2 component, 100% solids clear polyamide-cured epoxy coating. - TerraThane Satin: A 2 component, 90% solids polyurea clear finish coat. - TerraGrip: A graded, plastic aggregate added to finish coat for slip resistance. 2.3 Product Substitutions: A. Substitutions: No substitutions permitted. 2.4 Source Quality: A. Source Quality: Obtain resinous materials, including patching and leveling materials from a single manufacturer. 3.1 Manufacturer's Instructions: A. Compliance: Comply with manufacturer's product data, including product technical data sheets and application instructions. 3.2 Examination: A. Site Verifications of Conditions: Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's instructions. - Before applying materials, inspect surfaces to receive new materials and report any unsatisfactory conditions. Absence of any such report shall constitute installer's acceptance of surfaces as satisfactory for installing materials. 3.3 Preparation: A. Adjacent Surfaces Protection: Protect adjacent work areas and finish surfaces from damage during product installation. B. Surface Preparation: - Mechanical Cleaning: Concrete floor surfaces receiving polymer flooring systems shall be thoroughly cleaned and prepared by shotblasting and/or diamond grinding. - Patching Damaged Substrate: Holes, voids, static cracks, and other substrate surface defects should be patched and repaired according to manufacturer's recommendations. - Prepare and clean control joints well and fill with an appropriate elastomeric. 3.4 Installation: A. Resinous Flooring Installation: The following are abbreviated guidelines that should provide for basic application steps for the installation of the systems. Detailed instructions should be obtained from the manufacturer. - Patching: After substrate preparation, surface defects shall be patched according to manufacturer's recommendations. - Priming: Apply aiflooring TerraPrime, 100% solids epoxy primer, at a rate of 125-150 square feet per gallon. Allow 6-12 hours (depending on temperatures) of cure before applying finish coat. Finish coat must be applied within 24 hours of TerraPrime application. - Finish Coat: Apply aiflooring TerraThane Satin, 90% solids polyurea topcoat, at a rate of 200 square feet per gallon. TerraGrip should be added to the TerraThane mix at a rate of 1 pint per 3 gallon kit for slip resistance. Note that TerraThane Satin must be metered out by notched squeegee prior to rolling. B. Cleaning: Remove temporary coverings and protection of adjacent work areas. Repair or replace damaged installed products. Clean installed products in accordance with manufacturer's instructions prior to Owner's acceptance. Remove construction debris from project site and legally dispose of debris. 3.5 Protection: A. Protection: Protect installed product and finish surfaces from damage during construction.	3.1 Installation A. Surface Conditions - 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. - Verify that base slab meets finish and surface profile requirements in Division 3 Section "Cast-In-Place Concrete," and Project Conditions above. - Prior to application, verify that floor surfaces are free of construction latents. B. Application The following RetroPlate process will be followed as listed below: A concrete grinding machine must be used. Please proceed according to the following: - Floors should be started using 50, 80 or 100 grit diamond pucks depending on the condition of the slab. - Clean the floor using automatic scrubber or comparable. - Grind floor using 200 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - Apply RetroPlate 99 to floor at 200 sq. ft. per gallon, scrubbing product into the floor and allowing product to soak until turning slick. If it becomes sticky, apply water to the surface as necessary, leaving the product on the floor for at least 60 minutes. - Grind floor using 400 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - Clean and remove any excess RetroPlate. Let the floor dry overnight. - Continue the polishing process using 800 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - Alternately, depending on slab condition, grind floor using 1200-1500 grit resin diamonds. - Clean the floor using automatic scrubber or comparable. - The same process will be used for new floors as well as rehab floors. Floor prep for the rehab floors will be separate. - Apply an even coat of RetroGuard Sealer with a brush, roller, or low-pressure sprayer, and when surface is dry, burnish the floor with a black burnishing pad. Apply a second coat of RetroGuard one hour after the initial application, and again burnish the floor with a black burnishing pad. - Do not walk on surface for 12 hours, and do not introduce any water or moisture for at least 48 hours, allowing for proper drying and setting of RetroPlate and RetroGuard. Water will minimize the sealing properties of RetroPlate and RetroGuard. C. Start any of the floor finish applications in presence of manufacturer's technical representative. D. Sealing, Hardening and Polishing of Concrete Surface - Concrete must be in place a minimum of 28 days or as directed by the manufacturer before application can begin. - Application is to take place at least 10 days to the prior to racking and other in-store accessory installation, thus providing a complete, uninhibited concrete slab for application. - 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. - Achieve waterproofing, hardening, dust-proofing, and abrasion resistance of the surface without changing the natural appearance of the concrete, except for the sheen. - Polish to a level 2 shine. E. Workmanship and Cleaning - The premises shall be kept clean and free of debris at all times. - Remove spatter from adjoining surfaces, as necessary. - Repair damages to surface caused by cleaning operations. - Remove debris from jobsite - Dispose of materials in separate, closed containers in accordance with local regulations.	H. Accessories - Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated. - Wall weeps: Dur-O-Wal D/A 1006 "Cell Vent", clear flexible polypropylene co-polymer. - Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" D/A 2010. - Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt. - Cleaning agents: - Face Brick and CMU: ProSoCo, Inc., "Sure Klean New Masonry Cleaners." - ACMU: ProSoCo, Inc., "Sure Klean Burnished Custom Masonry Cleaner." - Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces. 3.1 Installation A. Preparation - Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations. - Lay concrete masonry units dry. - Establish, lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed - Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost be evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set. B. Installation - General: - Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown. - Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed. - Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements. C. Laying Masonry - Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations. - Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work. - Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs. - Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths. - Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths. - Compress and cut joints flush for masonry walls below grade or covered by other materials. - Tool joints in all exposed masonry work to a concave joint. - Provide interlocking masonry bond in each course at corners and intersecting walls. - As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items. - Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout. - Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members. - Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services. - Install anchors, plates and related work built into masonry work. - Install reinforcing steel and concrete fill where indicated. Comply with drawing details. - Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows: - In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings. - Lap reinforcement a full width at the corners and at intersections or use special fabricated sections. - Fully embed side rods in mortar. - Anchoring masonry work: Provide anchoring devices of the type indicated or required. - Provide vertical expansion, control and isolation joints in masonry where indicated. - When not indicated, at maximum 30'-0" on center. - Locate control joints at points of natural weakness in masonry and acceptable to Architect. - Joint sealant color shall match masonry materials sealed. - Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar. - Flashing and weeps: - Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction. - Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation. - Flexible Membrane Flashing: - Install membrane flashing in accordance with manufacturer's installation instructions. - Fully adhere flashing to substrate. - Lap flashing joints a minimum of 6", seal and roll with a hand roller. - Trim bottom edge 1/4" back from exposed face of masonry. - Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic. - Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit. - Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant. D. Masonry Veneer Walls: - Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing. - Space ties 16" on center vertically and horizontally. - Maintain veneer wall cavity free of mortar droppings during masonry installation. E. Parging: - Dampen masonry walls prior to parging. - Scarify each parging coat to ensure full bond to subsequent coat. - Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm). - Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter). F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following: - Draw ACMU from more than one pallet at a time during installation. G. Reinforced Concrete Masonry - Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations. - Comply with drawing details for reinforcing steel size and spacing. - Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing. H. Repair, Pointing and Cleaning - In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges. - Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense. - Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable. - Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and
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[illegible]

3.1 Installation: Comply with the Architectural Drawing details and the following:		3. For installation of prefinished millwork wall panels, use finish nails for exposed nailing, installed with pneumatic nailer as per the following guidelines: a. Nailer to be set for countersunk head approximately 1/8" on the face. b. Use 16 ga straight finish nails in 2" length c. Provide "dab" of construction adhesive on backside of panels at regular intervals. d. Random placement preferred, do NOT group nails together. e. No nails closer than 2" from any edge. f. All nails to be no greater than 16-18" apart in any direction. 4. Touch-up shop finished plywood materials marred or damaged during delivery, storage and installation with custom blended polyurethane to equal Minwax "Wipe on Poly".		2.1 Materials A. Manufacturer: STO Corp., (800) 221-2397, internet www.stocorp.com B. Exterior insulation and finish system: Sto Class P8 "Essence Next" EIFS. 1. Air/Moisture barrier: Sto Guard system. a. Sto Gold Fill Joint compound for rough opening protection, sheathing joints and inside and outside corners. b. Sto Guard Mesh: Coated glass fiber fabric reinforcing mesh. c. Sto Gold coat: Waterproof coating for wall sheathing. 2. Primer/adhesive and base coat: Sto Primer/Adhesive-B, one-component, polymer modified, cement -based factory blended primer/adhesive used to attach insulation board to prepared sheathing substrates and as a base coat in Essence claddings. 3. Insulation board: ASTM C578 Type 1, nominal 1.0 lb/ft ³ expanded polystyrene meeting EIMA Guideline specifications for EPS insulation board. 4. Finish coating: Sto Essence DPR, ready-mixed 100% acrylic-based, textured wall coating. a. Medium/Fine Sand Finish. b. Color as indicated on the Architectural drawings from manufacturer's full color range or match custom color. 5. System warranty: 10 year labor and material. C. Portland cement: ASTM C150, Type I or II, white or gray in color. D. Water: Clean, potable and free of foreign matter. E. Reinforcing mesh: Sto open-weave glass fiber fabric with alkaline resistant coating. 1. Standard mesh: Sto Mesh, nominal 4.5 oz/yd ² fabric. 2. Ultra-High impact mesh: Sto Armor Mat, nominal 15 oz/yd ² ultra-high impact fabric. 3. Specialty mesh: a. Sto Detail Mesh, nominal 4.2 oz/yd ² flexible, symmetrical, interlaced glass fiber fabric. b. Sto Corner Mat, nominal 7.8 oz/yd ² pre-creased, heavy-duty, glass fiber fabric. F. Joint sealants: Polyurethane base elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. 1. Adhesion: Evaluated in accordance with ASTM C1382. 2. Color: Matching EIFS finish coating color, and visually acceptable to the Architect. G. Accessories: Provide plastic stops and trim where indicated. Materials shall be compatible with EIFS materials and acceptable to EIFS manufacturer. 1. Starter Track: Rigid PVC plastic track with weepholes and drip edge.		1.5 Scheduling A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly. B. Schedule installation of weather barrier materials and exterior cladding within nine months of weather barrier assembly installation.	
A. Exposed Fasteners: 1. Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish. 2. Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface. B. Stainless Steel: 1. Wall: a. Clean stainless steel panel with mineral spirits. b. Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel. c. Trim seams as indicated on the Drawings. No exposed fasteners. C. Diamond Plate: 1. Wall: Mount over plywood substrate w/ flush exposed fasteners. 2. Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation. 3. Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation. D. Patio Railing System: 1. Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter 2. Railing posts shall be grouted in using non gypsum quick set grout. 3. Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet. E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.		B. Install casework without distortion so that doors and drawers will fit openings properly and be accurately aligned. Adjust hardware to center doors and drawers in openings and to provide unencumbered operation. C. Install plastic laminate countertops, shelving and trim. Provide work level, true to alignment, accurately fit to wall conditions and securely fastened to base units and other support systems as indicated.		2.1 Manufacturer A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.441TYVEK (8-9835); http://constructiontyvek.com 2.2 Materials A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components. B. Performance Characteristics: 1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677. 2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B. 3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127. 4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410. 5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460. 6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A. 7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117. 8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.		2.1 Manufacturer A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.441TYVEK (8-9835); http://constructiontyvek.com 2.2 Materials A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components. B. Performance Characteristics: 1. Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178. Type I per ASTM E1677. 2. Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B. 3. Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127. 4. Basis Weight: 2.7 oz/yard squared, when tested in accordance with TAPPI Test Method T-410. 5. Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460. 6. Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A. 7. Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117. 8. Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.	
DIVISION 6 - WOOD AND PLASTICS		SECTION 06605 - FIBERGLASS REINFORCED PLASTIC PANELS		3.1 Mixing A. Mix materials in accordance with manufacturer's published instructions. 1. Mix with a clean, rust-free high speed mixer to a uniform consistency. 2. No rapid binder, anti-freeze or accelerator additives permitted.		2.3 Accessories A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications. B. Fasteners: 1. For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer. 2. For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners. 3. For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners. C. Adhesives: 1. Provide adhesive recommended by weather barrier manufacturer. 2. Products: a. Liquid Nails LN-109 b. Polyglaze SM 5700 c. Denso Butyl Liquid d. 3M High Strength 90 e. SIA 665 f. Adhesives recommended by the weather barrier manufacturer. D. Primers: 1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing. 2. Product: a. 3M High Strength 90 b. Denso Butyl Spray c. SIA 655 d. Permagrip 105 e. ITW TACC Sta' Put SPH f. Primers recommended by the flashing manufacturer. E. Flashing: 1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations. 2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc. 3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.	
SECTION 06100 - ROUGH CARPENTRY		SECTION 07210 - BUILDING INSULATION		SECTION 07250 - WEATHER BARRIERS		3.1 Examination A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories. 3.2 Installation - Weather Barrier A. Install weather barrier per regional requirements in accordance with manufacturer recommendations. B. Install weather barrier prior to installation of windows and doors. C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap. D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level. E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer. F. Window and Door Openings: Extend weather barrier completely over openings. G. Overlap weather barrier 1. Exterior corners: minimum 12 inches. 2. Seams: minimum 6 inches. H. Weather barrier Attachment: 1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally. 2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches on center, when coordinated on the project site. I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.	
1.1 General: Provide rough carpentry work as shown and specified. A. Standards: Materials and construction shall conform to following: 1. NIST PS-1-95 "Construction and Industrial Plywood." 2. NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels." 3. NIST PS-20-99 "American Softwood Lumber Standard." 4. NF&PA NDS-97 "Wood Construction and Supplement." 5. AWWA "Wood Treatment Standards."		1.1 General: Provide fiberglass reinforced plastic panels as shown and specified. 2.1 Materials: A. Manufacturer: Marlite, (330) 343-6621, internet www.marlite.com, Email: info@marlite.com B. Panel System: 'P6' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: P100 White, Class A, pebbled matte surface texture. USDA approved for incidental food contact. 1. Panel trim: Extruded PVC, color matching panel color. Provide 1/2" x 1/2" inside corners, edge trim, and division moldings as required to complete the installation. a. Inside Corner - M350 b. Division - M365 c. Edge - M370 2. Panel trim: Stainless Steel, color matching panel color. Provide 1-1/2" x 1-1/2" outside corners as required to complete the installation. 3. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant. 4. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces. C. Panel System: 'P2' Per Finish Schedule, Series: Standard FRP - "Marlite Class 1/A" Fiberglass Reinforced Polyester (FRP) Panels, 3/32" thick, 48" wide x full height required. Color: S100G White, smooth matte surface texture. USDA approved for incidental food contact. 1. Panel trim: Extruded PVC, color matching panel color. Provide division moldings as required to complete the installation. a. Division - M365 2. Sealant: Marlite "Silicone Sealant", white gunnable silicone sealant. 3. Panel adhesive: Marlite "C-551" water-based construction adhesive for panel application over porous surfaces. D. Alternate panel spec: Color: S100 S/2/S White, smooth matte surface texture		1.1 Section Includes A. Weather barrier membrane B. Seam Tape C. Flashing D. Fasteners 1.2 References A. ASTM International 1. ASTM C920; Standard Specification for Elastomeric Joint Sealants 2. ASTM C1193; Standard Guide for Use of Joint Sealants 3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting 4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics 5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials 6. ASTM E96; Test Method for Water Vapor Transmission of Materials 7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls. 8. ASTM E2178; Test Method for Air Permeance of Building Materials B. AATCC - American Association of Textile Chemists and Colorists 1. Test Method 127 Water Resistance: Hydrostatic Pressure Test C. TAPPI 1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area) 2. Test Method T-460; Air Resistance (Gurley Hill Method) 1.3 Quality Assurance A. Qualifications 1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions. 2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations. 3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer. 1.4 Delivery, Storage and Handling A. Refer to Section 01400 Quality Requirements. B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact. C. Store weather barrier materials as recommended by weather barrier manufacturer.		3.1 Examination A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories. 3.2 Installation - Weather Barrier A. Install weather barrier per regional requirements in accordance with manufacturer recommendations. B. Install weather barrier prior to installation of windows and doors. C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap. D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level. E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer. F. Window and Door Openings: Extend weather barrier completely over openings. G. Overlap weather barrier 1. Exterior corners: minimum 12 inches. 2. Seams: minimum 6 inches. H. Weather barrier Attachment: 1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally. 2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches on center, when coordinated on the project site. I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.	
2.1 Materials: A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated. 1. Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species. a. Provide preservative treated lumber, where indicated. B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick. 1. APA-RATED SHEATHING EXP1. a. Provide Exterior Grade (EXT) plywood, where indicated. b. Provide fire-retardant treated plywood, where required by Building Code. C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick 2.2 Wood Treatment: A. Preservative Treatment: Comply with applicable requirements of AWWA Standards C2 (Lumber). 1. Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf. 2. Treat wood blocking, nailers and similar members in connection with roofing and flashing. 3. Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete. B. Fire-Retardant Treatment: Comply with applicable requirements of AWWA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking. 1. Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes. C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.		2.1 Materials: A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com 1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated. 2. Perimeter foundation walls: Styrofoam SE, R-value indicated. B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com. 1. Type: Owens Corning "Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665,. Provide lengths and widths required to coordinate with spaces insulated. 2. Exterior walls: Unfaced, R-value/thickness indicated C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perm. 1. Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets. 2. Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing. 3.1 Installation: A. General: 1. Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids. 2. Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork. B. Foundation perimeter walls and slabs: 1. Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls. 2. Protect insulation from displacement and damage during backfilling and slab placement C. Exterior Walls: 1. Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members. 2. Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location. D. Vapor Barriers: 1. Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing. 2. Provide single unsplined material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier. 3. Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.		SECTION 07250 - WEATHER BARRIERS 1.1 Section Includes A. Weather barrier membrane B. Seam Tape C. Flashing D. Fasteners 1.2 References A. ASTM International 1. ASTM C920; Standard Specification for Elastomeric Joint Sealants 2. ASTM C1193; Standard Guide for Use of Joint Sealants 3. ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting 4. ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics 5. ASTM E84; Test Method for Surface Burning Characteristics of Building Materials 6. ASTM E96; Test Method for Water Vapor Transmission of Materials 7. ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls. 8. ASTM E2178; Test Method for Air Permeance of Building Materials B. AATCC - American Association of Textile Chemists and Colorists 1. Test Method 127 Water Resistance: Hydrostatic Pressure Test C. TAPPI 1. Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area) 2. Test Method T-460; Air Resistance (Gurley Hill Method) 1.3 Quality Assurance A. Qualifications 1. Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions. 2. Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations. 3. Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer. 1.4 Delivery, Storage and Handling A. Refer to Section 01400 Quality Requirements. B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact. C. Store weather barrier materials as recommended by weather barrier manufacturer.		3.1 Examination A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories. 3.2 Installation - Weather Barrier A. Install weather barrier per regional requirements in accordance with manufacturer recommendations. B. Install weather barrier prior to installation of windows and doors. C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap. D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level. E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer. F. Window and Door Openings: Extend weather barrier completely over openings. G. Overlap weather barrier 1. Exterior corners: minimum 12 inches. 2. Seams: minimum 6 inches. H. Weather barrier Attachment: 1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally. 2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches on center, when coordinated on the project site. I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.	
SECTION 06210 - FINISH CARPENTRY AND MILLWORK		SECTION 07400 - EXTERIOR INSULATION AND FINISH SYSTEM (EIFS)		3.1 Seaming A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams. B. Seal any tears or cuts as recommended by weather barrier manufacturer.		3.4 Opening Preparation (for use with non-flanged windows - all cladding types) A. Flush cut weather barrier at edge of sheathing around full perimeter of opening. B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.	
1.1 General: Provide finish carpentry and millwork as shown and specified. A. Standards: Materials and construction shall conform to the following: 1. AWI "Architectural Woodwork Quality Standards - 1999." B. Doors and door hardware: Install all door hardware furnished under Division 8 specification Sections. C. Submit shop drawings for designated millwork. 1. Include complete details, materials lists and drawings showing fabrication of typical units, unit assemblies, locations and installation details. 2. List proposed cabinet hardware to suit indicated unit use or function. 3. Identify materials required to complete work ready for installation. 4. Obtain shop drawing approval before starting fabrication. 2.1 Materials: A. Plywood: AWI Section 200 1. Concealed use substrates: D-3 Paint Grade hardwood plywood, with aspen veneer core, 5/8" thick. 2. Exposed to view finishes: Random plank matched or slip and swing matched spalted maple veneer on 3/4" Baltic birch core, with mill option sound grade hardwood backer. Spalted maple grain to run horizontally .5 sheen matte clear waterborne finish. Panels to be provided at 47" height, with widths varying from 24" to 96". B. Millwork: Materials and construction as detailed on the Drawings. C. Fabrication: 1. Millwork design and fabrication details shown on the drawings indicate design intent. Unless otherwise indicated, provide manufacturer's standard fabrication methods. Indicate all proposed variations from the drawing design and fabrication details on shop drawings. 2. Fabricate millwork in accordance with AWI "Custom Grade" requirements. Where details are not shown, comply with applicable Quality Standards or with alternate details acceptable to Architect as fabricator's option. 3. Fabricate finished work properly framed, closely fit and accurately set to required lines and levels and rigidly secured in place. 4. Fabricate work straight, plumb, level and in true alignment; neatly and accurately fit, scribed and thoroughly secured. Plane and sand miters and other joints. Ease all square edges. Provide millwork clean and free from warp, twist, open joints and other defects. 5. Provide finished woodwork dressed and sanded free from machine and tool marks, abrasions, raised grain or other defects on surfaces exposed to view in finished work. D. Finish: Sayerlack Hydroplur Waterborne Clear, 5 sheen.		1.1 General: Provide building insulation as shown and specified. 2.1 Materials: A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com 1. Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C 578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated. 2. Perimeter foundation walls: Styrofoam SE, R-value indicated. B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465,					

DIVISION 8 - DOORS AND WINDOWS			
SECTION 08110 - STEEL DOORS AND FRAMES			
1.1 General: Tenant to provide steel doors and frames as shown and specified.			
A. Standards: Materials and construction shall conform to the following:			
1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."			
2. ANSI A250.11-01 "Erection Instructions for Steel Frames."			
3. SDI 122-99 " Installation for Standard Steel doors and Frames.			
B. Manufacturer: A member of the Steel Door Institute (SDI).			
2.1 Materials:			
A. Steel Doors:			
1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.			
2. Exterior: Extra heavy-duty Level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets; tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.			
B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.			
1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.			
2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.			
C. Door and frame fabrication:			
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.			
2. Punch frames and factory install rubber door silencers.			
3. Provide minimum three anchors of suitable design for each jamb.			
4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.			
D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.			
3.1 Installation:			
A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.			
B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.			
SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS			
1.1 General: Provide aluminum entrances and storefronts as shown and specified.			
1.2 Related Documents:			
A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.			
B. Standards: Materials and construction shall conform to the following:			
1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."			
1.3 Summary:			
A. Section Includes:			
1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.			
a. Types of Kawneer Aluminum Storefront include:			
(1.) Trifab 601T Storefront System - 2" x 6" nominal dimension; Thermal; Center-Set			
(2.) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
2. Kawneer Aluminum Entrances, glass and glazing, and components			
a. Types of Kawneer Aluminum Entrances include:			
(1.) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.			
3. Kawneer Tube for Feature Exterior Slat Wall			
4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.			
a. YKK			
(1.) YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal			
(2.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
b. Oldcastle			
(1.) Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal			
(2.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
c. US Aluminum			
(1.) Series FT601 - 2" x 6" nominal dimension; Thermal			
(2.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
d. EFCO			
(1.) Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal			
(2.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal			
e. Wausau			
(1.) TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal			
(2.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal			
1.4 Performance Requirements:			
A. General Performance: Aluminum-framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction;			
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.			
a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000			
b. Importance Factor: (1.00)			
c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000			
B. Storefront System Performance Requirements:			
1. Wind loads: Provide storefront system; include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.			
2. Air Infiltration:			
a. Air infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/ft. sq. at a static air pressure differential of 6.24 psf.			
b. Air infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 PA) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.			
3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 331. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.			
4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of L/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.			
5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:			
a. Glass to Exterior - 0.47 (low-e)			
6. Condensation Resistance (CRF): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:			
a. Glass to Exterior - 70 frame and 69 glass (low-e)			
7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:			
a. Glass to Exterior - 38 (STC) and 31 (OITC)			
1.5 Submittals:			
A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.			
B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.			
C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.			
1.6 Quality Assurance			
A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope			
B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.			
C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.			
D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.			
1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.			
1.7 Project Conditions:			
A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.			
1.8 Warranty			
A. Manufactures Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.			
1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.			
2.1 Manufacturers:			
A. Manufacturer: Kawneer Company Inc., Contact: Cheryl Wilkerson, Phone: 317-771-9263; email:cheryl.wilkerson@arconic.com			
1. Basis-of-Design Product Storefront Framing:			
a. Trifab 601T (thermal) Storefront System			
i. 2" x 6" System Dimensions			
ii. Glass: Exterior (Center-Set)			
b. Trifab 451T (thermal) Storefront System			
i. 2" x 4-1/2" System Dimensions			
ii. Glass: Exterior (Front-Set)			
2. Basis-of-Design Product Storefront Entrances:			
a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"			
b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.			
c. Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.			
d. Provide adjustable glass jacks to help center the glass in the door opening.			
3. Basis-of-Design Product Feature Exterior Slat Wall:			
a. Kawneer Tube #0Z7881 (1" x 3"), capped at top and bottom			
i. Alternate Exterior Slat Wall only when approved by Arch PM and Chipotle DM.			
1. Architectural Fabrication			
B. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.			
1. YKK			
a. YES 60 TU Storefront System - 2" x 6" nominal dimension; Thermal			
b. YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
2.. Oldcastle			
a. Series 6000XT Storefront System - 2" x 6" nominal dimension; Thermal			
b. Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
3.. US Aluminum			
a. Series FT601 - 2" x 6" nominal dimension; Thermal			
b. Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set			
4. EFCO			
a. Series 406 (T) Storefront System - 2" x 6-1/2" nominal dimension; Thermal			
b. Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal			
5. Wausau			
a. TU24650 Storefront System - 2" x 6-1/2" nominal dimension; Thermal			
b. TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal			
2.2 Materials:			
A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.			
B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.			
C. Aluminum Storefront Entrance Extrusions:Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.090" wall thickness at any location for the main frame and sash members.			
D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.			
E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.			
F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.			
G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.			
H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.			
2.3 Storefront Framing System:			
A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505.			
1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.			
B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.			
C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.			
D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.			
E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.			
F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.			
2.4 Glazing Systems:			
A. Glazing: As specified in Section 08800 - Glazing.			
B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.			
C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.			
D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.			
E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:			
1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.			
a. Color: Black			
2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 25. Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact, recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.			
a. Color: Matching structural sealant.			
2.5 Entrance Door Systems:			
A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.			
2.6 Accessory Materials:			
A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers			
2.7 Storefront Framing Fabrication:			
A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:			
1. Profiles that are sharp, straight, and free of defects or deformations.			
2. Accurately fit joints; make joints flush, hairline and weatherproof.			
3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.			
4. Physical and thermal isolation of glazing from framing members.			
5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.			
6. Provisions for field replacement of glazing.			
7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.			
B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.			
C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.			
D. Storefront Framing: Fabricate components for assembly using manufacturers standard installation instructions.			
E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.			
2.8 Storefront Entrance Door Fabrication:			
A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.			
B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.			
1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in-type with EPDM glazing gaskets reinforced with non-stretchable cord.			
2. Accurately fit and secure joints and corners. Make joints hairline in appearance.			
3. Prepare components with internal reinforcement for door hardware.			
4. Arrange fasteners and attachments to conceal from view.			
C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufactures drawings and details.			
2.9 Aluminum Finishes:			
A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.			
B. Factory Finishing:			
1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)			
2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM			
a. YKK "Charcoal" UC99477, Superior Painted Finishes			
b. All others to be verified with samples and submittals to Arch PM			
2.10 Brake Metal Trim:			
A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.			
1. Show actual field measurements on shop drawings.			
2. Differentiate between shop and field fabrication.			
3. Indicate substrates and adjacent work with which the fabrications must be coordinated.			
4. Include large-scale details of anchorages and connecting elements.			
5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)			
2.11 Formed Metal Fabrications - General:			
A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.			
B. Coordination: Match dimensions and attachment of formed metal items to adjacent construction. Produce integrated assemblies. Closely fit joints; align edges and flat surfaces unless indicated otherwise.			
C. Forming: Profiles indicated. Maximize lengths. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain separation at bends.			
D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.			
E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.			
F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.			
G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish, and restore damaged finishes to required condition.			
1. Ease exposed edges to small uniform radius.			
2. Welded joints.			
a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.			
b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M			
3. Brass/Bronze Brazed Joints:			
a. Perform torch brazing in accordance with AWS C3.4M/C3.4			
b. Perform induction brazing in accordance with AWS C3.5M/C3.5			
c. Perform resistance brazing in accordance with AWS C3.9M/C3.9			
H. Performance requirements;			
1. Thermal Movements:			
a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.			
b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.			
2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.			
2.12 Formed Metal Fabrications - Sheet Metal			
A. Closures, Trim, and Fill Panels:			
1. Form Closures from type and thickness of metal indicated.			
2. Conceal fasteners when possible.			
3. Drill and tap holes for securing to other surfaces.			
4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.			
5. Miter or cope at corners and reinforce with bent metal plate. Form tight joints.			
2.13 Materials			
A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.			
B. Galvanized Steel Sheet: ASTM A653/A653M, G90 (Z275) coating. 14 gauge min. thick base material.			
C. Anchors, Clips, and Accessories: Use one of the following:			
1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.			
2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.			
3. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M Coating Grade 35			
4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.			
5. Exterior Locations or in contact with Stainless Steel:			
a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)			
b. Nuts: Stainless steel; ASTM F594.			
6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.			
a. Type: Provide chemical or torque controlled expansion anchors.			
b. Capacity: When tested according to ASTM E488/E488M; four times the load imposed when installed in concrete.			
7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply wit design loads. Provide size and number required for load, installation, and as recommended by manufacturer, unless indicated otherwise.			
D. Fasteners, General: Same basic metal and alloy as formed metal sheet unless indicated otherwise. Do not use metals incompatible with the materials joined.			
E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.			
2.14 Finishes			
A. Finishes, General: Comply with NAAMM AMP 500-06			
1. Complete mechanical finishes before fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.			
2. Protect mechanical finishes on exposed surfaces from damage.			
3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.			
4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.			
B. Galvanized Steel Finishes:			
1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M			
2. Color: As shown on the drawings.			
3. Factory Prime: Apply shop primer to prepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1			
4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.			
3.1 Examination:			
A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.			
1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.			
2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.			
3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints. Proceed with installation only after unsatisfactory conditions have been corrected.			
3.2 Installation:			
A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.			
B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.			
C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.			

2.2 In-Line Side Sliding Automatic Window and Air Curtain

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

- Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H
 1. Service Opening: 19"W x 29-3/4"H
 2. Finish: Dark Bronze Anodized
 3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
 4. 'CHIPOTLE' package includes pre-wired air curtain with relay to sync operation with window.
 - a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air Curtain mounts to transom.
 - i. Heated Air Curtain: Model: QSV1025EI-040-BK
 - ii. Ambient Air Curtain: Model: QSK1025AA-BK
 5. Refer to interior elevations (A700s) for direction of opening for ordering.

- ReadyAccess Automatic Side Sliding Window: 47 -1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
 1. Service Opening: 19"W x 35"H
 2. Finish: Dark Bronze Anodized
 3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
 4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
 - a. Heated Air Curtain: Model: AA300 (replaces transom)
 - b. Ambient Air Curtain: Model: AA100 (split transom)
 5. Refer to exterior elevations (A300s) for direction of opening for ordering.

B. Alternate California Code Option

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

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

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

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

2.3 Electrical Requirements

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

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

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

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

3.1 Installation

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

SECTION 08710 - DOOR HARDWARE

1.1 General: Provide door hardware as shown and specified.

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

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

2.1 Materials:

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

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

3.1 Installation

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

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

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

SECTION 08800 - GLAZING

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

- A. Standards: Materials and installation shall conform to the following:
 1. CPSC 16 CFR Part 1201 (1-91)"Safety Standard for Architectural Glazing Materials."
 2. GANA "Glazing Manual - 1990."
- B. Quality Assurance:
 1. Codes and standards: Provide type of glass and glazing products that comply with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for category II materials. Comply with all applicable codes, standards and regulations that control safety glazing materials and installation.
 2. System Performance: Provide glass and glazing that has been produced, fabricated and installed to withstand normal thermal movement, wind loading and, where applicable, impact loading, without failure including loss or breakage of glass, failure of glazing sealants or gaskets to remain watertight and airtight, deterioration of glass and glazing materials and other defects in the work.
 3. Installation: Performed only by experienced glaziers.

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

2.1 Materials:

- A. Glass:
 1. Float Glass (FG): 1/4" thick clear float glass.
 2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
 3. Insulating Glass (IG): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desicated dual sealed air space; with the following characteristics:
 - a. Low-emissivity coating on #2 surface.
 - b. Visible Light Transmittance: 64%- 70%
 - c. Visible Light Reflectance - Outdoors: 9%-11%
 - d. Solar Energy Transmittance: 32%-34%
 - e. Solar Energy Reflectance-Outdoors: 30%-34%
 - f. U-Value - Winter Night: 0.29
 - g. U-value - Summer days: 0.28
 - h. Solar Heat gain Coefficient: 0.25-0.39
 - i. Shading Coefficient: 0.43-0.45
 - j. Manufacturers/Products:
 - i. AGC/Comfort Ti-AC40, or similar to meet code
 - ii. Sun Guard/SN-68, or similar to meet code
 - iii. PPG/Solarban 60, or similar to meet code
 - iv. Viracon/VE1-2M, or similar to meet code
 4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: GrayBlack or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
 5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

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

- C. Fabrication: Factory fabricate and size all glass.

3.1 Installation

- A. Preparation:
 1. Field verify measurements and conditions of installation.
 2. Examine all details. Provide proper fitting to details indicated.
 3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.
- B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
 1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).
- C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.
- D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattling or breakage.
- E. Protect glass from breakage during remaining construction. Do not remove non-permanent labels until final acceptance.

DIVISION 9 – FINISHES

SECTION 09260 - GYPSUM BOARD SYSTEMS

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

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

2.1 Materials:

- A. Manufacturer: United States Gypsum Co. (USG), (800) 874-4968, internet www.usg.com.
- B. Metal framing: Comply with ASTM C 754 and ASTM C 645 for materials and sizes.
 1. Partition metal framing.
 - a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "S720"
 - b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.
 - C. Ceiling and Soffit metal framing/suspension systems:
 1. Small areas: Metal stud framing of appropriate size and gage for spans indicated.
 2. Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
 3. Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.
 - D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
 1. General use panels: Sheetrock Regular panels.
 2. Fire rated panels: Sheetrock Firecode Core panels.
 3. Water-resistant panels: Sheetrock HUMITEK panels.
 - E. Cement board: USG DUROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.

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

- G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 2008 casing bead metal trim, No. 093 Control Joint.

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

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

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

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

3.1 Installation

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

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

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

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

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

SECTION 092816 - GLASS-MAT FACED GYPSUM BACKING BOARDS

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

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

2.1 Materials:

- A. Manufacturer: Georgia-Pacific Gypsum LLC, (800) 225-6119, internet: www.buildgp.com
- B. Fiberglass-Mat Faced Gypsum Backing Board: DensShield Fireguard Tile Backing Board complying with ASTM C1178, Type X, Square edges, 4' wide in maximum lengths available to minimize end joint conditions, 5/8" thick. Surfacing: Coated fiberglass mat on face, back and long edges.
 1. General use panels: 5/8" DensShield Fireguard Tile Backer, Georgia-Pacific Gypsum.

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

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

3.1 Installation

- A. Install DenShield at all tile walls excluding hood area as indicated on drawings.
- B. General: Install in accordance with ASTM C840, manufacturer's recommendations and TCA Handbook for Ceramic Tile Installation.
 1. Manufacturers Recommendations: refer to Current "Product Catalog", Georgia Pacific Gypsum.
 - a. Attach DensShield Tile Backer with grey side facing the interior. Tile should be applied on the grey coated side of DensShield Tile Backer. Cut panel to required size and make cutouts. Fit ends and dges closely. Do not leave gaps between panels.
 - b. DensShield Tile Backer may be cut by using a utility knife to score, then snap, working from the grey face side.
 - c. For walls, when used as a tile substrate a minimum 20-gauge steel or wood framing should be spaced no greater than 24" o.c. for 5/8" DensShield Tile Backer. Board can be applied horizontally or vertically.
 - d. Fasteners shall be spaced 6" o.c. for walls for wood and steel framing. Do not countersink. Drive fasteners flush with grey coated surface. See manufacturer installation Fastener Guide for proper selection.
 - e. In all corners, imbed with a bead of flexible sealant when installing panels into corner. Apply self-adhesive 2" wide fiberglass mesh tape and bed tape on all joints and corners with material used to set tiles.
 - f. Caulk or seal fixture/plumbing penetrations and abutments to dissimilar materials.
 - g. Do not use all purpose joint compound or tape in wet areas.
 - h. Do not apply DensShield Tile Backer directly to concrete or masonry block. Framing or furring of the walls is necessary.
 - i. DensShield Tile Backer should not be used for exterior installations.
 - j. DensShield Tile Backer panels should not be used as a base for nailing and mechanical fastening.
 - k. DensShield Tile Backer has a built in moisture barrier. Never install vapor retarders directly behind DensShield Tile Backer panels. In retrofit applications, some paints or other wall coverings may constitute a vapor barrier; remove or effectively penetrate these coverings prior to installing DensShield Tile Backer panels.
- C. Refer to Section 09260 Gypsum Board Systems for additional installation and sound treatment instructions

SECTION 09330 - QUARRY TILE

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

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

2.1 Materials:

- A. Manufacturers:
 1. Quarry Tile: Daltile, (877) 556-5728, internet: http://daltile.com
 - a. For ordering purposes, email all orders to chipotle@daltile.com
 2. Waterproofing, Setting and Grouting Materials:
 - a. Setting and Grouting Materials and Tile Base Membrane: Mapei
 - i. For ordering purposes, email all orders to chipotle@daltile.com
 - ii. For technical questions, contact Mapei, (800) 992-6273, internet: www.mapei.com
- B. Quarry Tile: Daltile 6" x 6" x 1/2" Quarry Textures with 5" base as scheduled on finish plan and appropriate trim; Color: "Ashen Gray" 0703
 1. Entire Kitchen Area: Provide non-abrasive finish quarry tile.
 2. Rest Rooms: Provide non-abrasive finish quarry tile.
 3. Outside Corner Cove Base (Kitchen): HQC-(L or R)-3565 5" x 6"
 4. Inside Corner Cove Base: #QB-3565 1" x 5"
 5. Bullnose Coveless Base: #Q-1665, 6" x 6"
 6. Bullnose Corner Coveless Base: #QCRL-1665, 6" x 6"
- C. Waterproofing for elevated floor slabs: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane
- D. Setting Adhesive: Mapei, Ultraflex 3, Color: Gray
- E. Grout: Mapei, Kerapoxy IEG CQ, Color: #9, "Gray", 1/4" grout joints.
- F. Quarry Tile Base Membrane: Mapei, Mapelastic AquaDefense, Premium Waterproofing and Crack Isolation Membrane

3.1 Installation

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

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

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

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

SECTION 09340 - CERAMIC TILE

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

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

2.1 Materials:

- A. Manufacturers:
 1. Ceramic Tile and Accent Tile: Daltile, P: (877) 556-5728, internet: http://daltile.com
 - a. For ordering purposes, email all orders to chipotle@daltile.com
- B. Ceramic Tile: Series - Color Wheel Glazed Ceramic:
 1. Kitchen Tile or as noted in plans
 - a. Color - Arctic White 0190, Semi-Gloss, Size - 4 x 16, Pattern - Stacked Bond
 2. Accent Tile
 - a. Color - Chipotle Brick Metallic 1.0 #9999710686, Size - 3 x 12, Pattern - Stacked Bond
 - b. Alternate Accent Tile only when approved by Arch PM and Chipotle DM
 - i. Series - Remedy, Color - Alchemy RD25, Size - 2 x 9, Pattern - Stacked Bond
 - ii. Series - Marrazzi, Color - Artesen AT25, Size - 2 x 4, Pattern - Brickjoint Mosaic

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

- D. Grout:
 1. Kitchen Tile or as noted in plans
 - a. Mapei, Series - Flexcolor CQ - Gray #09, 1/8" grout joints.
 2. Accent Tile
 - a. Mapei, Series - Flexcolor CQ - Truffle #115, 1/8" grout joints.

3.1 Installation

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

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

Consultant:

HBC

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PERMIT SET
01/23/2024

Issue Record:

10/06/2023 LLD REVIEW SET
01/10/2024 PERMIT SET
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CONSTRUCTION SET

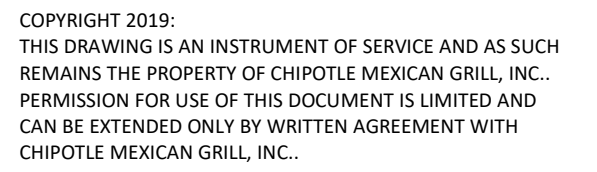


Revisions:

[illegible]

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.

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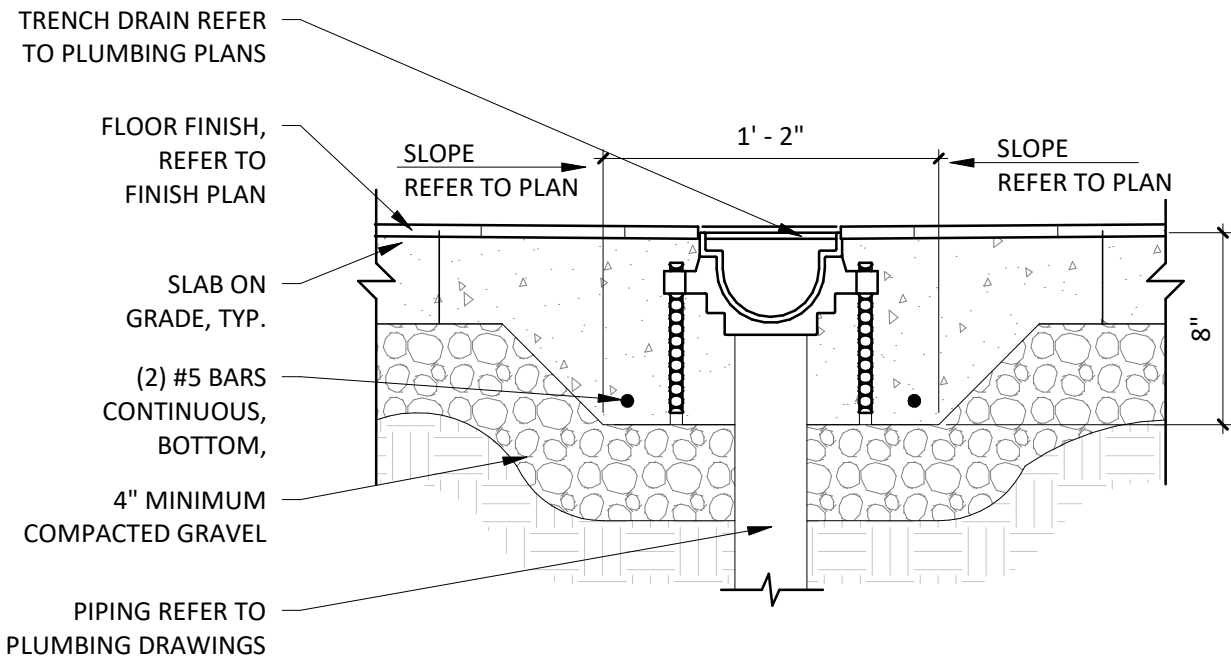
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M.T.W.	J.C.C.

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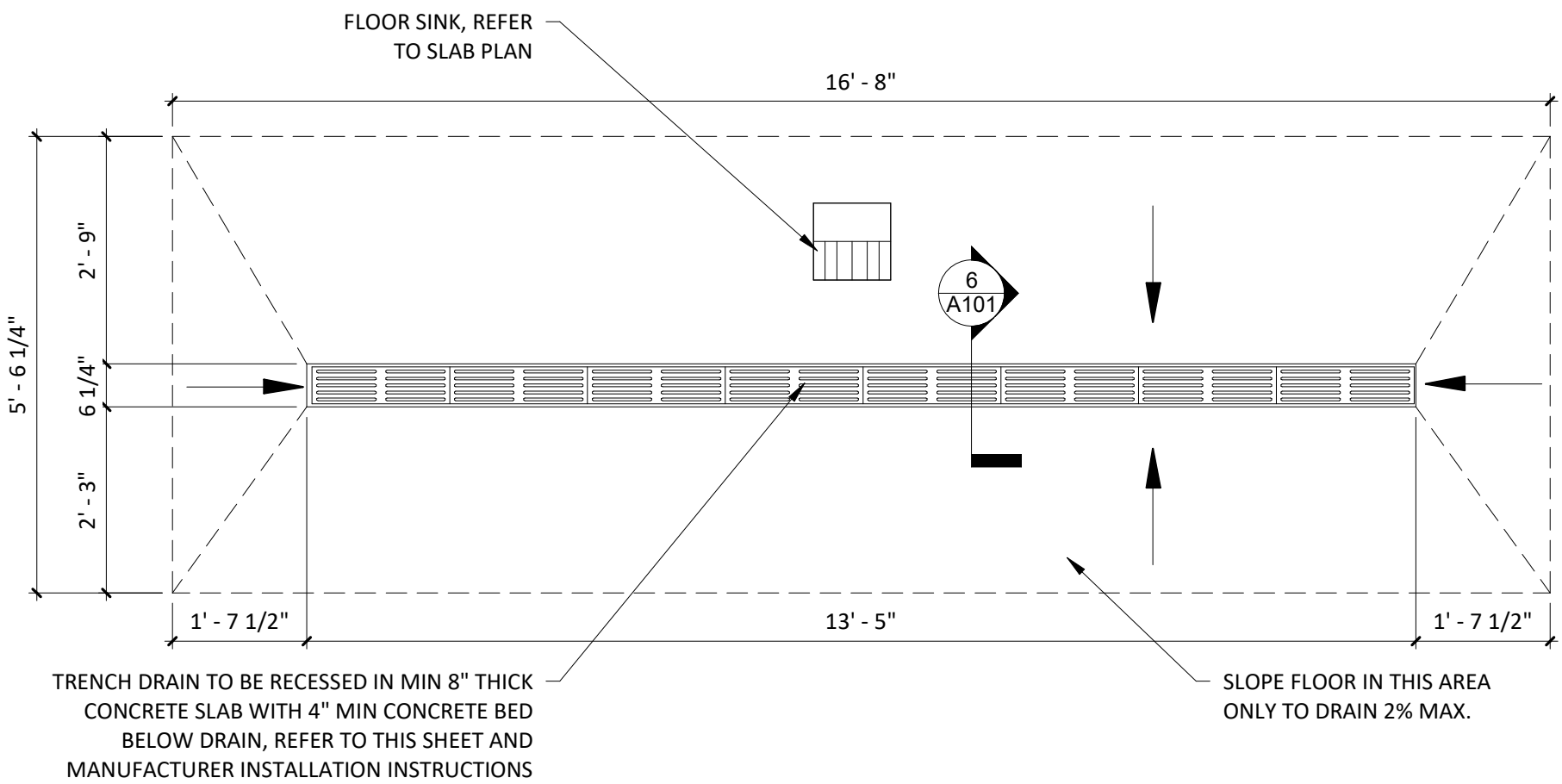
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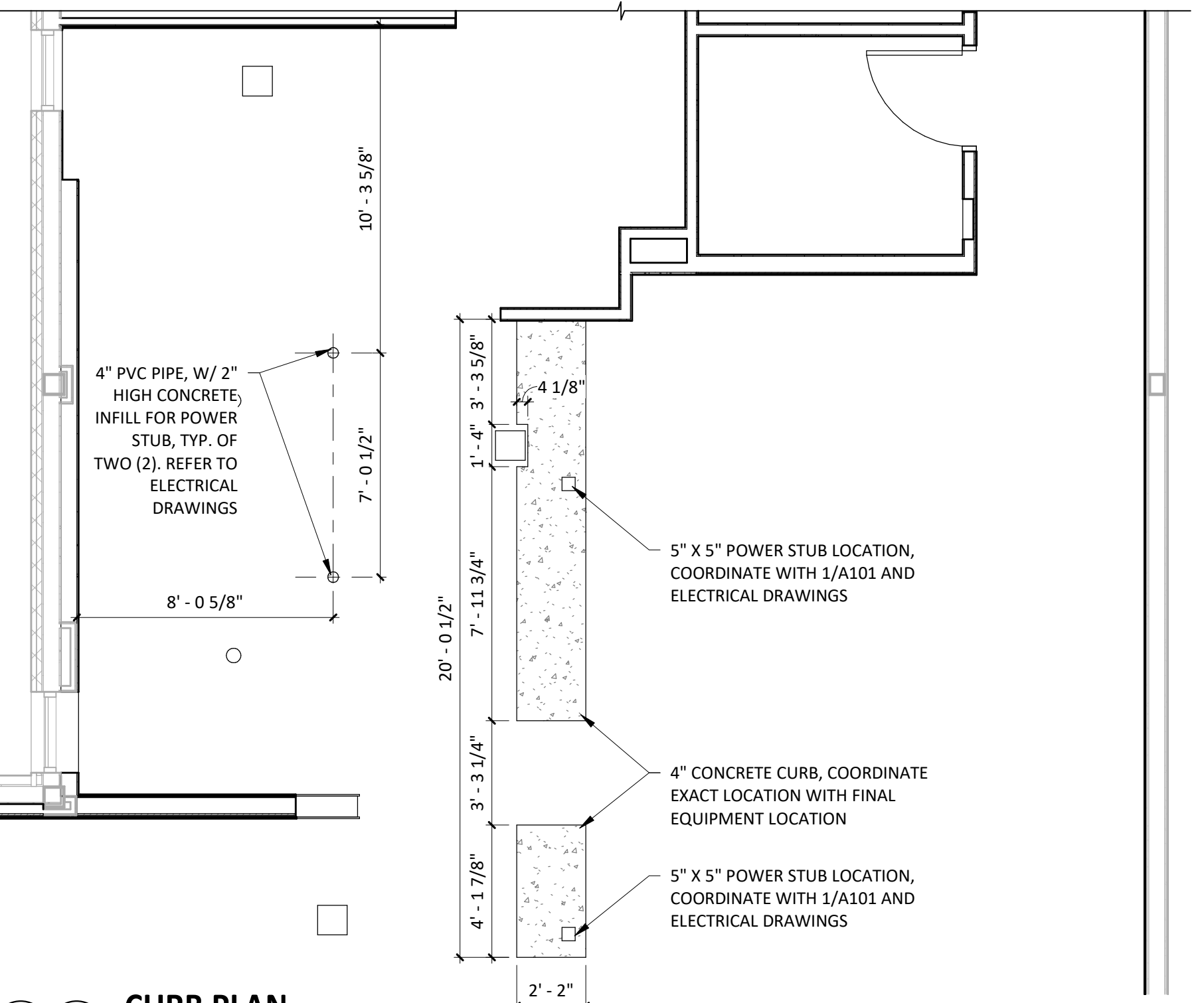
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1 1/2" = 1'-0"

TRENCH DRAIN DETAIL



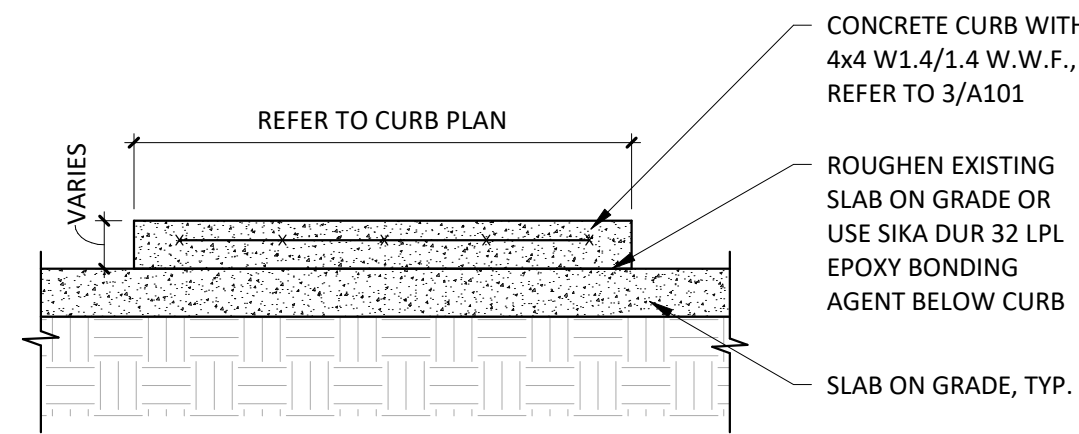
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TRENCH DRAIN PLAN DETAIL



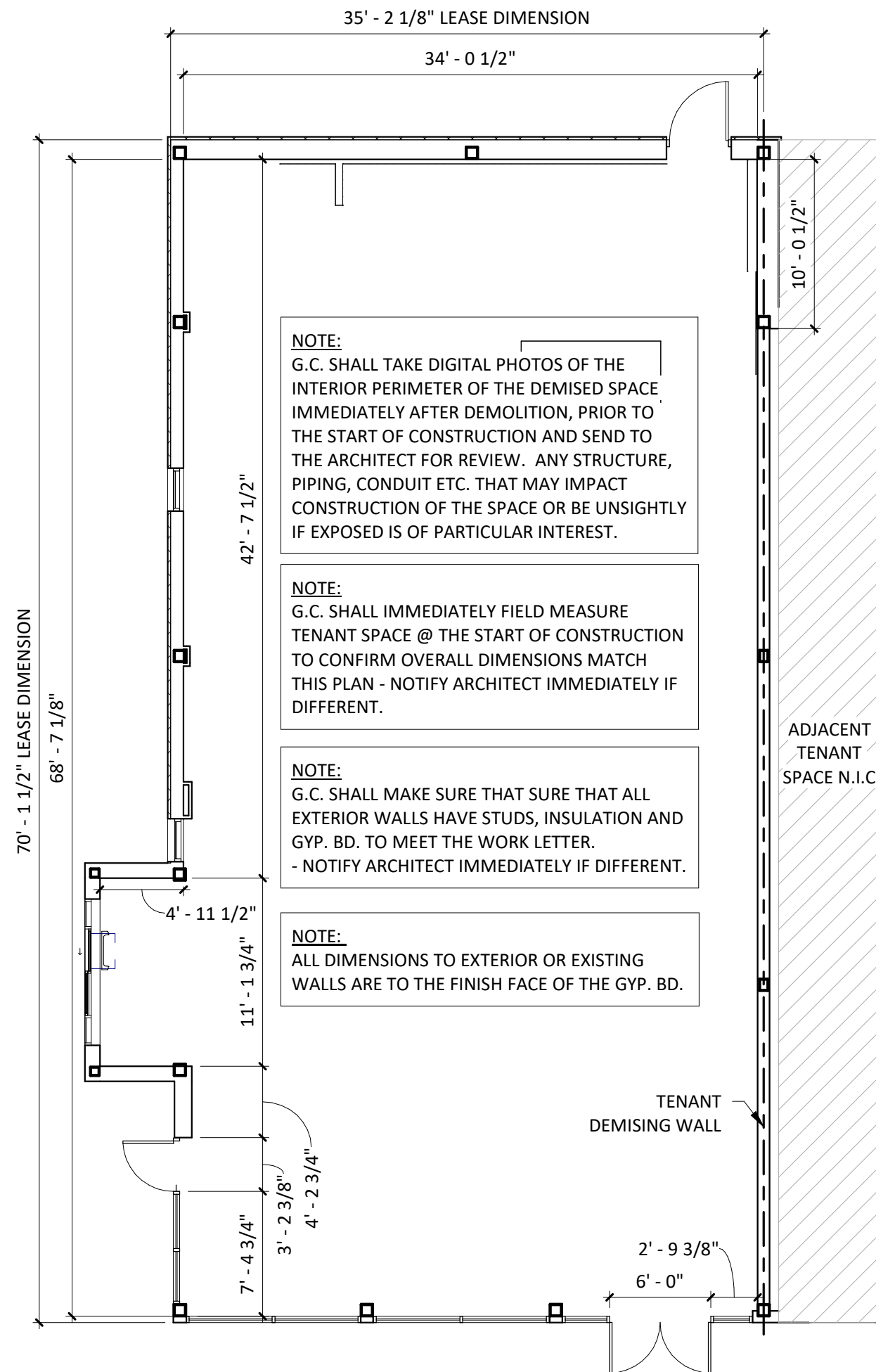
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CURB PLAN



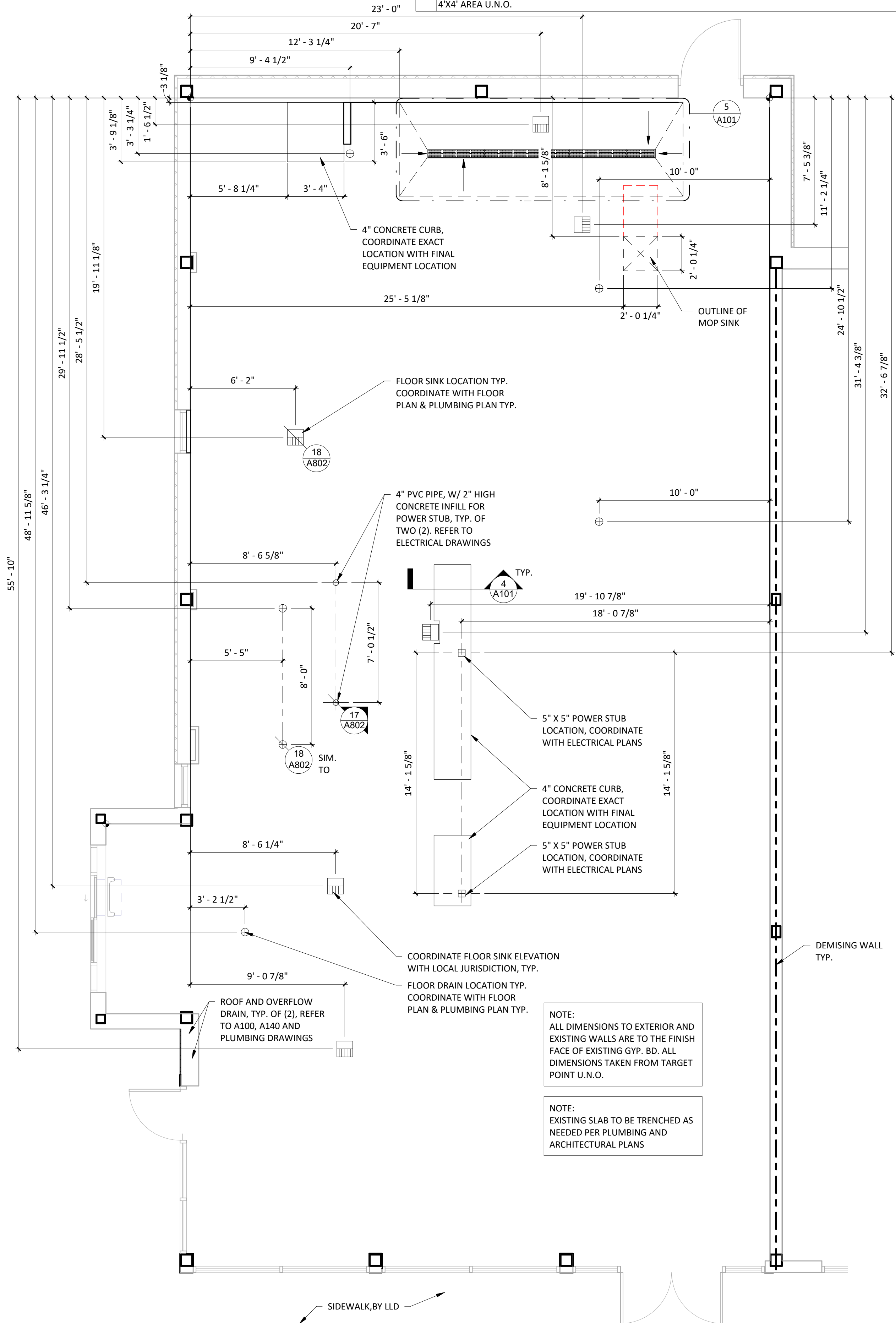
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A101
3/4" = 1'-0"

CONCRETE CURB DETAIL



2
A101
1/8" = 1'-0"

DEMISED PREMISES PLAN



1
A101
1/4" = 1'-0"

SLAB WORK PLAN

PLUMBING LEGEND

	FLOOR SINK
	FLOOR DRAIN
	TRENCH DRAIN

GENERAL NOTES

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

Consultant:

HBC

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Revisions:

Drawn:

Checked:

M.T.W.

J.C.C.

Project No.

21113

Contents:

SLAB WORK PLAN

A101

SHEET#: 14 OF 34

CODED NOTES

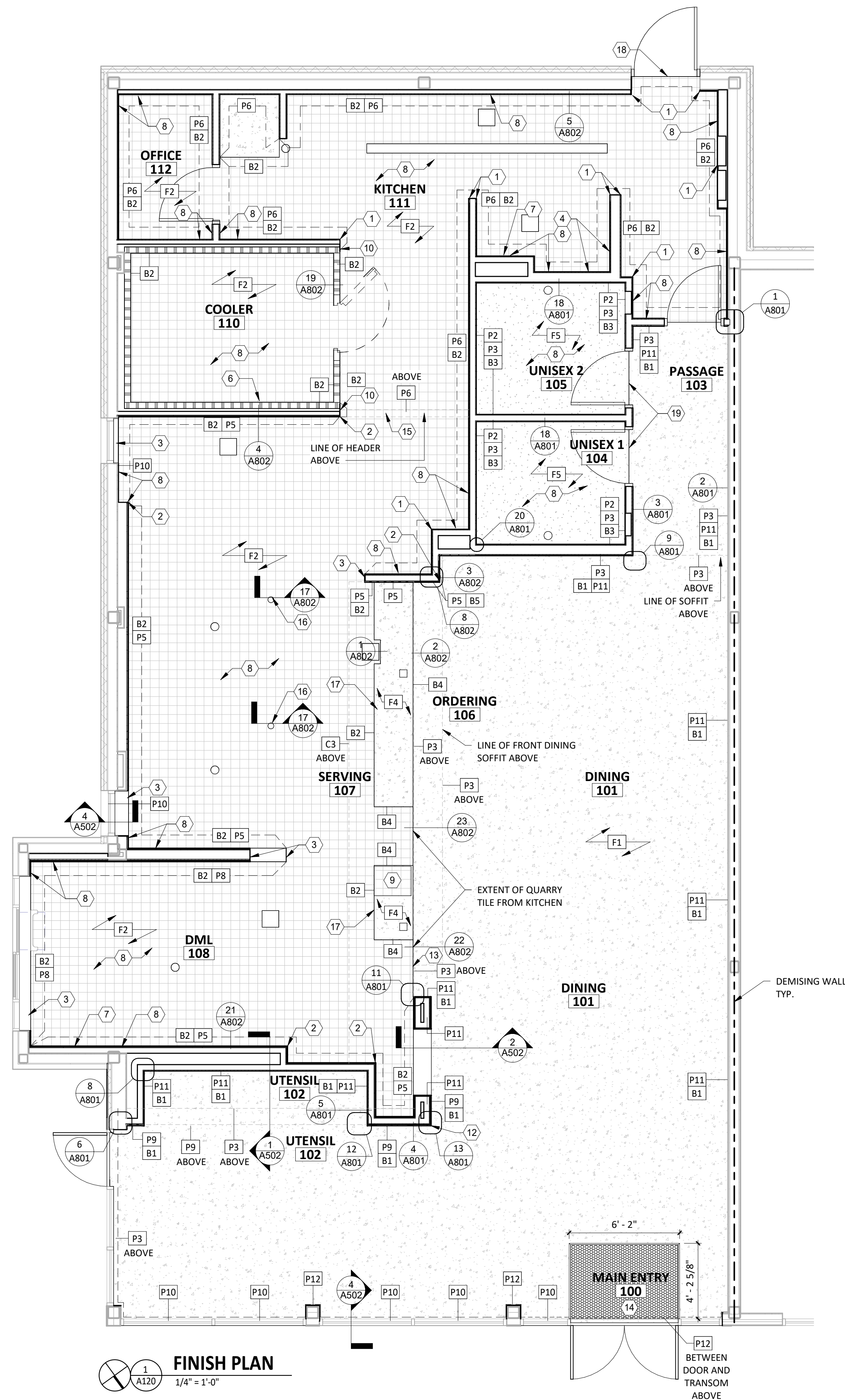
1	1-1/2" X 1-1/2" STAINLESS STEEL CORNER GUARDS TO 5'-0" AFF WITH 1-1/2" X 1-1/2" FRP CORNER TRIM ABOVE
2	SCHLUTER-QUADEC METAL CORNER, REFER TO 10&11/A802.
3	ALUMINUM ENDCAPS, REFER TO 12/A802. FOR WINDOWS, REFER TO 12&13/A802
4	PROVIDE STAINLESS STEEL ON WALL TO 24" ABOVE TOP OF MOP SINK. FLASH BOTTOM 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 GC, REFER TO 13/A801
13	NOT USED
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 11/A210
16	4" PVC PIPE, WITH 2" HIGH CONCRETE INFILL FOR POWER STUB, TYP. OF TWO (2). REFER TO ELECTRICAL DRAWINGS
17	CONCRETE CURB FOR EQUIPMENT, WITH QUARRY TILE BASE AT EXPOSED EDGES
18	EXTENT OF QUARRY TILE FROM KITCHEN, ALIGN TILE WITH EDGE OF DOOR THRESHOLD
19	EXTENT OF RESINOUS FLOORING FROM RESTROOM

GENERAL NOTES

1. STONEWOOD WALL PANELS AND WAINSCOT PROVIDED BY TMS, INSTALL BY GC.
2. SPALTED MAPLE PANELS PROVIDED BY TMS, INSTALLED BY GC.
3. GC IS RESPONSIBLE FOR SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GY.P. D. FINISHES).
4. GC SHALL PROVIDE STAINLESS STEEL BASE AT ALL OUTSIDE QUARRY TILE CORNERS IN KITCHEN ONLY - REFER TO SPECIFICATIONS AND A801 FOR DETAILS.

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

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



SHEET#: 16 OF 34

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

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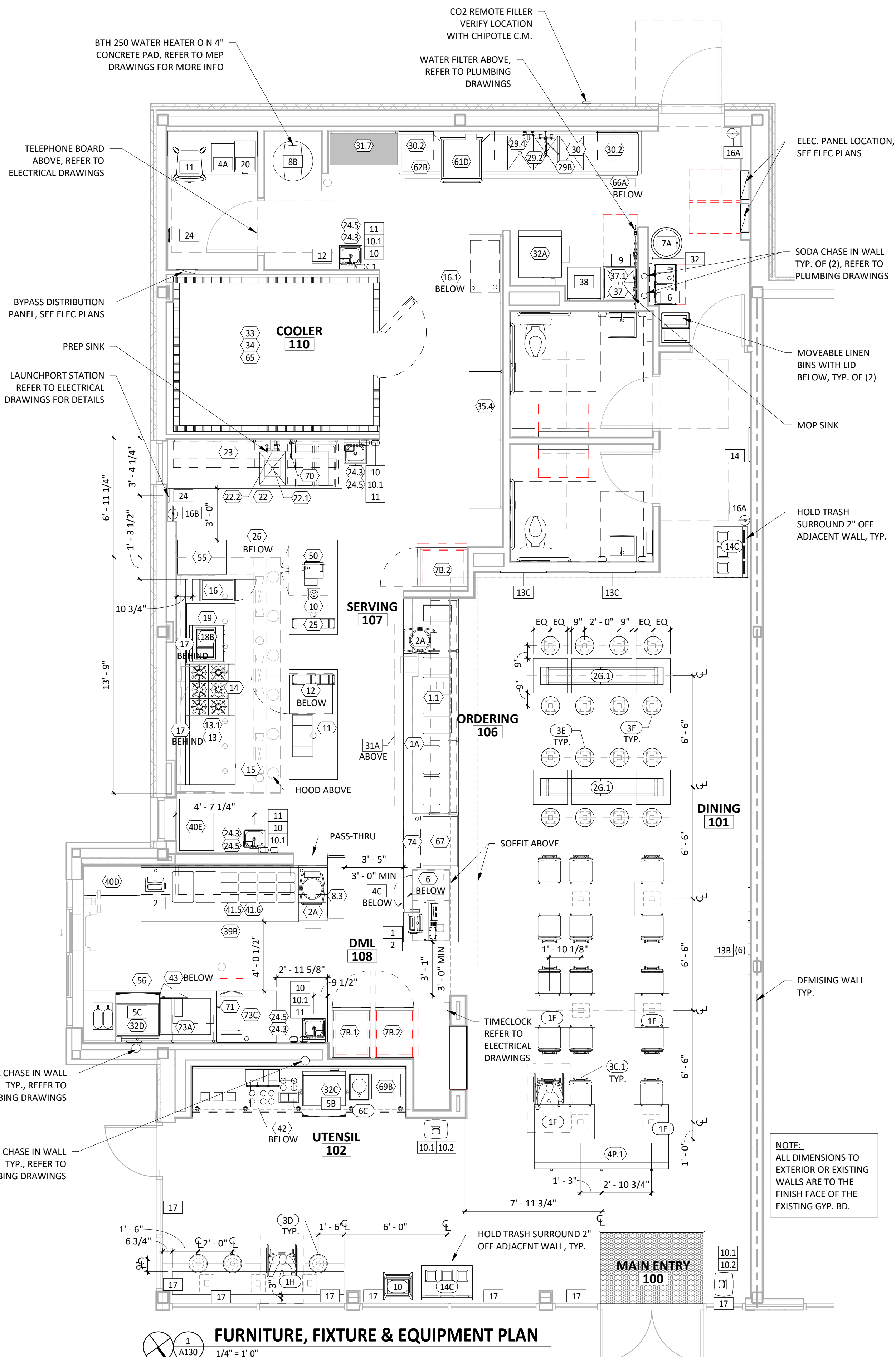
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FF&E PLAN

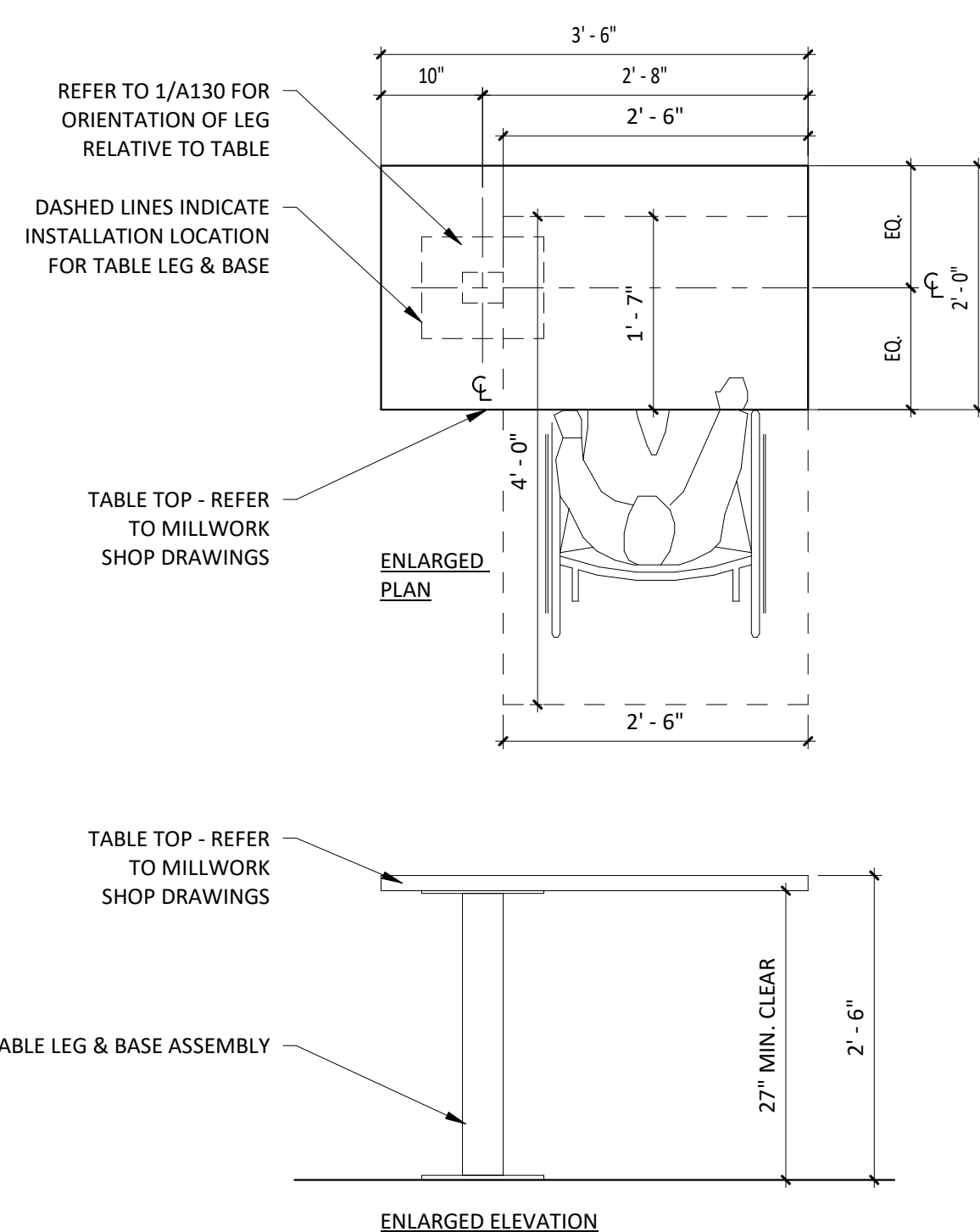
A130

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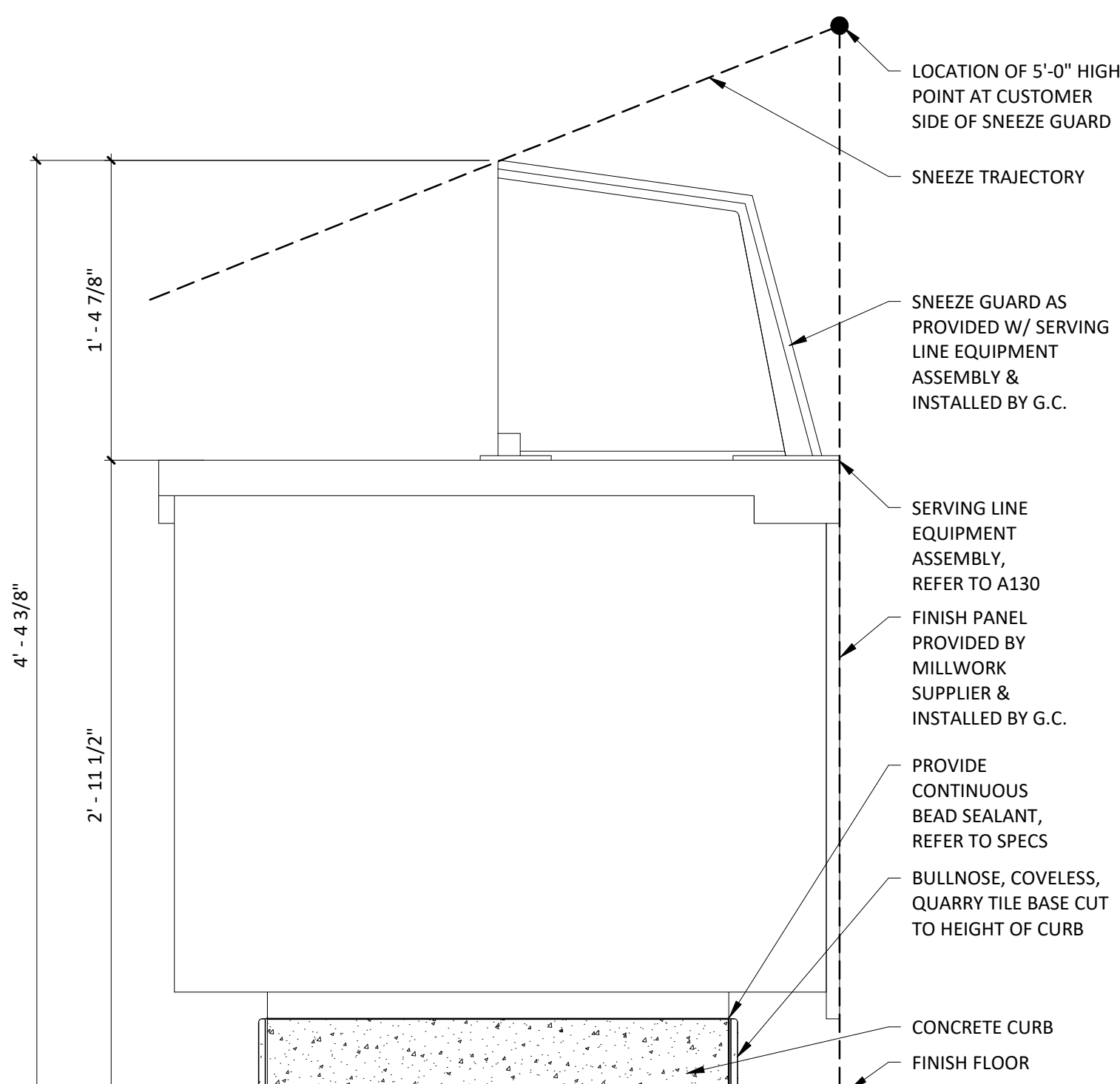
FURNITURE, FIXTURE & EQUIPMENT PLAN

1/4" = 1'-0"



DETAIL @ ACCESSIBLE TABLE

3/4" = 1'-0"



DETAIL @ SERVE LINE SNEEZE GUARD

1 1/2" = 1'-0"

KITCHEN EQUIPMENT LIST

ITEM #	DESCRIPTION	MANUFACTURER	MODEL NO.	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
							ELEC	GAS	WATER	SEWER	
1.1	Sneeze Guard Serve Line 12 Pan (Right)	BSI	Custom-R	1	TMS	TMS/GC					
1A	Front Serve Line - 12 Pan - RTD - POS Right	Delfield	12 Pan Serve Line POS RTD_241x38.5in (Right)	1	KES	KES; GC	●			●	Installed On Concrete Curb
2A	Tortilla Warmer	Caliente Industries	A2	2	KES	KES	●				GC To Store In Walk-In Cooler Until Final Installation
6	Cup Dispenser	Dispense-Rite	CHIP-ECL-3B	1	KES	KES; GC					Installed At POS Counter
7B.1	Upright Beverage Cooler, Single Door, Hinge Left	Varies	Varies - Solid Door	1	KES	KES	●				
7B.2	Upright Beverage Cooler, Single Door, Hinge Right	Varies	Varies - Solid Door	2	KES	KES	●				
8.3	M4.5 Chip Shelf	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 - Right	Delfield	77x34in Carving Station-RT	1	KES	KES	●				
12	Undercounter Refrigerator	Hoshizaki	CRM27-LP	1	KES	KES	●				
13	Grill 48in - Natural Gas - Divider Left	Woodstone	WS-PL-48-36-4-CT-Left	1	KES	KES	●	●			
13.1	Woodstone Grease Splash Guard	Nationwide Fab; Marlo Mfg	CHP-GCG-GSG	1	KES	KES					Verify If Required
14	Range 6 Burner - Natural Gas	Garland	U36-6S	1	KES	KES		●			
15	Woodstone Grill Stand 48x31in - Divider Left	Woodstone	000-PL-STAND-CASTER	1	KES	KES					
16	Fryer - Gas - Standard Efficiency	Pitco	35CS	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-60R	1	KES	GC	●	●			Final Connection by GC. RE:Mechanical Drawings
19	Rice Cooker Stand - Left	Nationwide Fab; Marlo Mfg	CHP-RCS-42ES-34	1	KES	KES					
22	Prep Sink - Corner - Left	Trimark	S1-122x34-US-FF-L	1	KES	GC				●	
22.1	Prep Sink Faucet Big Flow Faucet	T&S	B-0293-01	1	KES	GC			●		
22.2	Prep Sink Vegetable Wash Faucet	T&S	B-0730	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
22.3	Prep Sink Drain Assembly	T&S	B-3950	1	KES	KES; GC				●	
23	4 Shelves - 120in Prep Sink	Amco	CHPPS120	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
23A	2 Shelves - 30in	Amco	Custom	1	KES	KES					Mount Bottom Of Standard At 50" AFF. Provide Plywood Blocking To Mount To Wall.
24.3	Hand Sink Wall Mounted - Splash Both	Universal Stainless	EHS-1RL-NF	4	KES	GC				●	
24.5	Kitchen Hand Sink Faucet Splash Mount	T&S	B-1146-04	4	KES	GC			●		
25	Rice Prep Table Island 66x34	Nationwide Fabrication; Marlo Mfg	Custom Table 66x34in	1	KES	KES					
26	Hot Holding Cabinet - Double Door (Rice)	Food Warming Equipment (FWE)	HLC-16-CHP	1	KES	KES	●				
29.2	Dish Sink Add-A-Faucet w/ Pre-Rinse	T&S	B-1033-12CRBJSK Substitute Sprayer B-0107-J-SWW	1	KES	GC			●		
29.3	Dish Sink Drain Assembly	T&S	B-3950	3	KES	KES; GC				●	
29.4	Dish Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
29B	3 Comp Sink - 18x24in Bowls - 111 3/4in	Nationwide Fabrication; Marlo Mfg	S3-30x111.75x36.5-FF	1	KES	GC				●	
30	Shelving System - 3 Comp Sink	Amco	WST1879S	1	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking
30.2	Shelving System - Dish Table	Amco	WST1879S	2	KES	KES					Mount bottom of Standard At 56"AFF. Provide Plywood Blocking. Mount Tight To Dish Machine
31.7	Drying Racks 23x48x85in - With Vented Aluminum Covers	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall
32.1A	Ice Maker - Remote Condenser	Hoshizaki	URC-5F	1	KES	KES	●				Condensing Units To Be Secured To The Roof Per Code By GC
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			3	KES	KES				●	
32.4	Ice Maker - Scale Inhibitor			3	KES	KES				●	
32.5	Ice Maker - Sanitizer			2	TUV	GC	●				
32A	Ice Maker For B.O.H. Ice Bin (Shorter)	Hoshizaki	KML-700MRJ	1	KES	KES	●		●		Refer To Installation Guide. When Installed At Utensil Counter, Mount Below Counter In Accessible Location. Refer To Plumbing Drawings.
32C	Ice Maker Mounted On Soda Machine - Air Cooled	Hoshisaki	KMD-530MAJ	1	KES	KES	●		●	●	Drain Ice Maker to Floor Sink, RE: Mech. Refrigeration By Tenant.
32D	Ice Maker Mounted On Soda Machine - Remote Air Cooled	Hoshisaki	KMD-530MRJ	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					
35.4	Dry Storage Racks 23x192x85in	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
37	Mop Sink Faucet	T&S	B-0660-BSTR	1	KES	GC			●		
37.1	Mop Sink Chemical Faucet	T&S	B-2345-01-XX	1	KES	GC			●		GC To Provide Connection For Chemical Dispensing Equipment
38	6 Shelves - Chemical Storage Rack	Varies	Custom	1	KES	KES					Mount Bottom Of Standard At 12" AFF. Provide Plywood Blocking To Mount To Wall.
39B	DML 2.0 130in – Right – W/POS & Cash Drawer	Franke/Delfield	DML 2.0_RT-130x39	1	KES	KES	●			●	
39B.1	DML 2.0 Wall Trim Package	Franke/Delfield	DML 2.0 Trim Kit	1	KES	KES					
40D	Holding Shelf	Trimark	TGS-39X20X80-B	1	KES	KES	●				
40E	M4.5 - Filler Stand At Range	Select Stainless	Custom	1	KES	KES					
41.5	DML 2.0 Shelving - 130in - Top Shelf	Franke/Delfield	CH000A32	1	KES	KES					Mount Bottom Of Shelf At 74 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
41.6	DML 2.0 Shelving - 130in - Bottom Shelf	Franke/Delfield	CH000A34	1	KES	KES					Mount Bottom Of Lowest Portion Of Shelf At 54 1/2" AFF. Provide Plywood Blocking To Mount To Wall.
42	Shelving System Under Counter Beverage Station	ISS	WST1810CLR	1	KES	KES					Mounted on (4) casters, All casters to be swivel type, Front (2) casters to have brake, Located under utensil counter
43	Beverage Cooler Backbar 36in	Glasstender	LP36X-SS(X)	1	KES	KES	●				
50	Food Processor	Sammic	CA-31	1	KES	KES					
55	Filler Table - 24x34in	Trimark	TS-24x34x36-US-C	1	KES	KES					
56	Beverage Table - Fast Lane	Trimark	TS-36x92.5x36	1	KES	GC	●			●	
61D	Dish Machine (w/Pump & Ventless)	Hobart	AM16VLSCB (w/Ventless Kit)	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	●				
73C	42" TurboChef Table	Trimark	42X36X36	1	KES	KES					
74	Shelving - Under Counter - 12x36x29in	Metro	Custom	1	KES	KES					

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EQUIPMENT SCHEDULE

A131

SHEET#: 18 OF 34

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
5C	Soda Dispenser - With Remote Air-Cooled Ice Maker	1	SPS	SPS	●			●	Drain to Floor Sink, Tenant Millwork Supplier to Provide (2) Adjustable Legs to Support Dispenser From Under The Utensil Counter
6	Soda System Syrup Rack with Carbonator on Stainless Steel Shelf Wall Mounted at 89" AFF	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
8B	Gas Water Heater	1	WHS	GC	●	●	●	●	Drain Water Heater to Floor Sink, RE: Mech.
9	Mop Sink, See Plumbing Drawings	1	GC	GC			●	●	See Plumbing Drawings
10	Touch-Free Soap Dispenser	4	WA	GC					
10.1	Hand Sanitizer Dispenser	6	WA	GC					
10.2	Hand Sanitizer Stand	2	WA	GC					
11	Paper Towel Dispenser, Bobrick B262	4	WA	GC					Provide Plywood Blocking to Mount to Wall
12	First Aid Kit	1	T	GC					Confirm Location With Chipotle CM Prior To Installation
13B	M4.0 - Artwork Panel - Mixed Media, 2Hx3L Panels, Start Pattern At Column 1	1	TAS	GC					
14	License Frame	1	T	GC					Provide Plywood Backing In Wall At License Frame Location, Refer To Arch. Floor Plans And Elevations For License Frame Location.
16A	Fire Extinguisher Type ABC - B456	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	8	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
24	iPAD Wall Station	2	T	GC	●				Tablet By Tenant, Refer to Electrical Drawings
28	Mop Strip (Not Shown)	1	T	GC					Provide Plywood Backing To Mount To Wall, 2 Hole At Mop Basin and 6 Hole In Kitchen
31A	21inx31in Menu System	1	TMB	GC					
32	CO2 Alarm	1	CO2AS	GC	●				Refer to Electrical Drawings for Additional Details
33A	M4.0 - Pick-Up Sign - Single Faced - Flush Mounted - Face	1	TSV	GC					

FURNITURE LIST

TAG	DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	UTILITY				REMARKS
					ELEC	GAS	WATER	SEWER	
1E	M4.0 - Table 24x24in - Rectangular Base	3	TMS	GC					
1F	M4.0 - Table 24x24in, Rectangular Base (Accessible)	3	TMS	GC					See Detail On A130
1H	M4.0 - Community Table - Low - Window - Length Varies	1	TMS	GC					
2G.1	M4.0 - Bar Height Table 8-Top, With Footrest	2	TMS	GC					One Coat Hook Per Two Seats, Confirm Mounting Location With Shop Drawings
3C.1	M4.0 - Dining Room Chair	15	TMS	GC					
3D	M4.0 - Marshmallow Stool - Fixed	3	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
3E	M4.0 - Bar Stool - Fixed	16	TMS	GC					Align Seat With Seam Perpendicular To Table Edge
4P.1	Banquette Bench (Black) - Floor Mount	1	TMS	GC					
6C	M4.0 - Beverage Counter - With Trash - 4" Splash - 149"	1	TMS	GC				•	Coordinate Floor Drain Installation with Utensil Counter Installation. Bins Provided by Tundra in Smallwares Package
10	Child's High Chair	1	T	GC					
11	Office Chair, By Tenant	1	T	T					By Tenant
14C	M4.0 - 3 Bin Trash/Recycling Surround - Interior	2	TMS	GC					Bins Provided by Tundra in Smallwares Package
17A.2	MOPUS Shelving - 44"	1	TMS	GC					GC To Provide Blocking In Walls At The Ends Of The MOPUS Shelf To Secure Shelves, Wood Edge Of The Shelves To Face The Dining Room

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EQUIP. & FURNITURE SCHEDULE

A132

SHEET#: 19 OF 34

HVAC EQUIPMENT

NOTE: UTILITIES BY GC, REFER TO MECHANICAL DRAWINGS.

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

GENERAL NOTES

- SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
- SEE MECHANICAL PLANS FOR ROOF TOP EQUIPMENT.
- COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
- 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.
- 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.
- SEE M700 FOR PENETRATION DETAILS AT RTUS AND THE EXHAUST FAN.
- PROVIDE INSULATED CURBS FOR ALL EQUIPMENT IN EXPOSED DECK AREA ONLY.
- PROVIDE TAPERED INSULATION CRICKET AT ALL EQUIPMENT CURBS.
- LOCATE ALL UNITS SO DUCT DROPS BETWEEN TRUSS JOISTS. NOTIFY ARCHITECT IMMEDIATELY IF ANY UNITS NEED TO SHIFT FROM PLAN LOCATION SHOWN.

Consultant:

HBC

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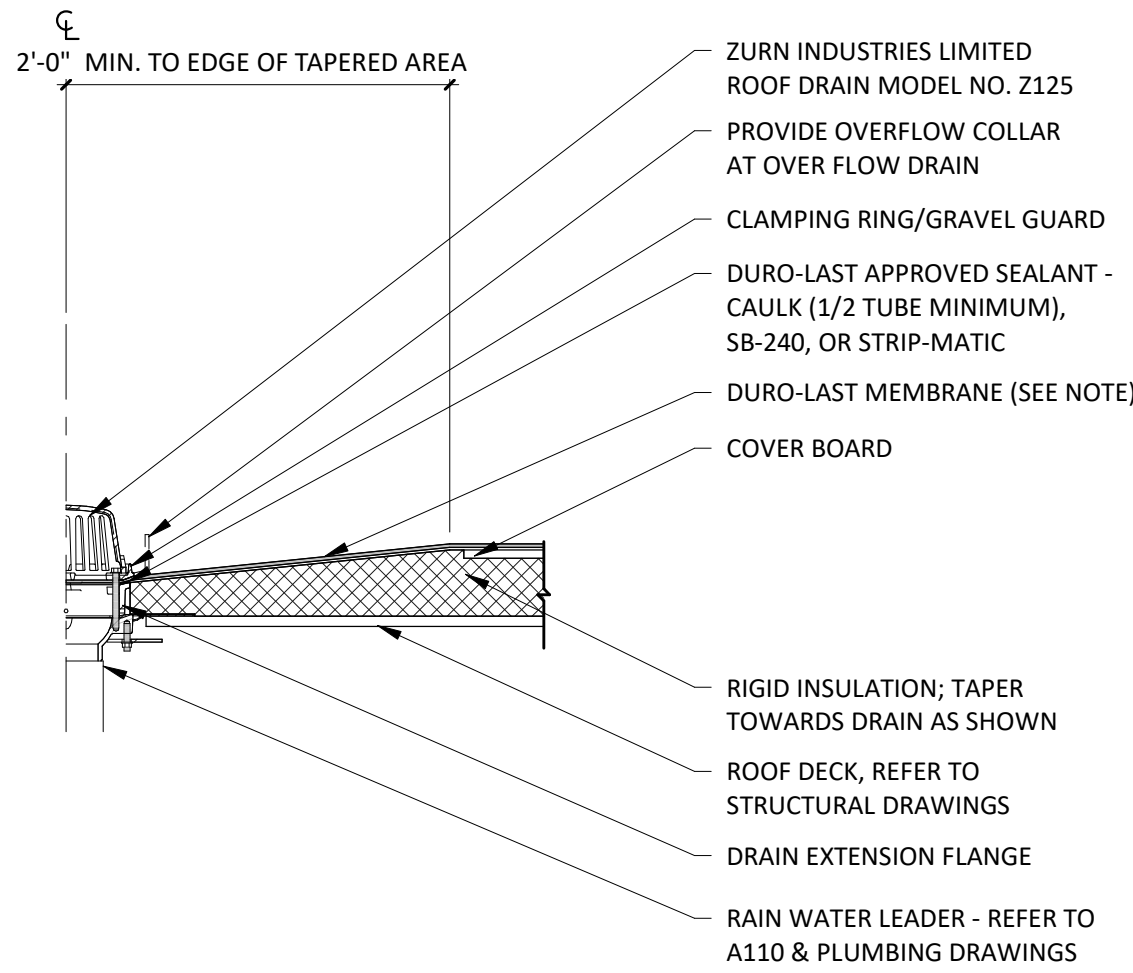
21113

Contents:

ARCHITECTURAL ROOF
PLAN

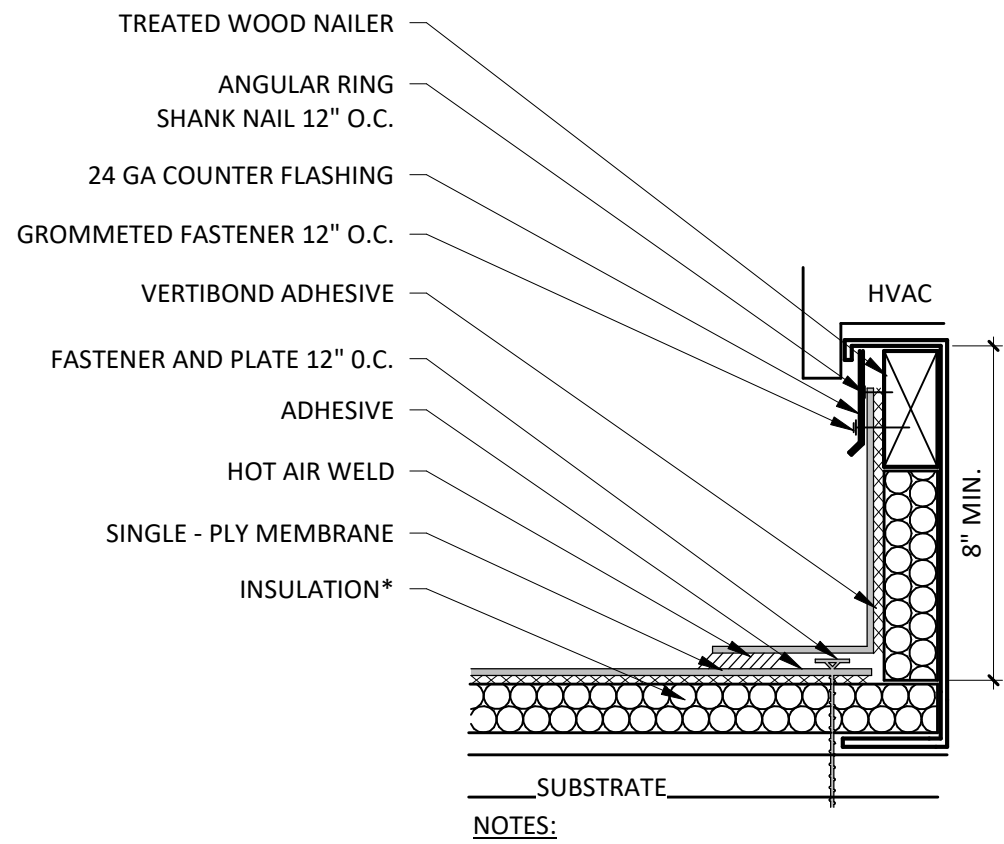
A140

SHEET#: 20 OF 34



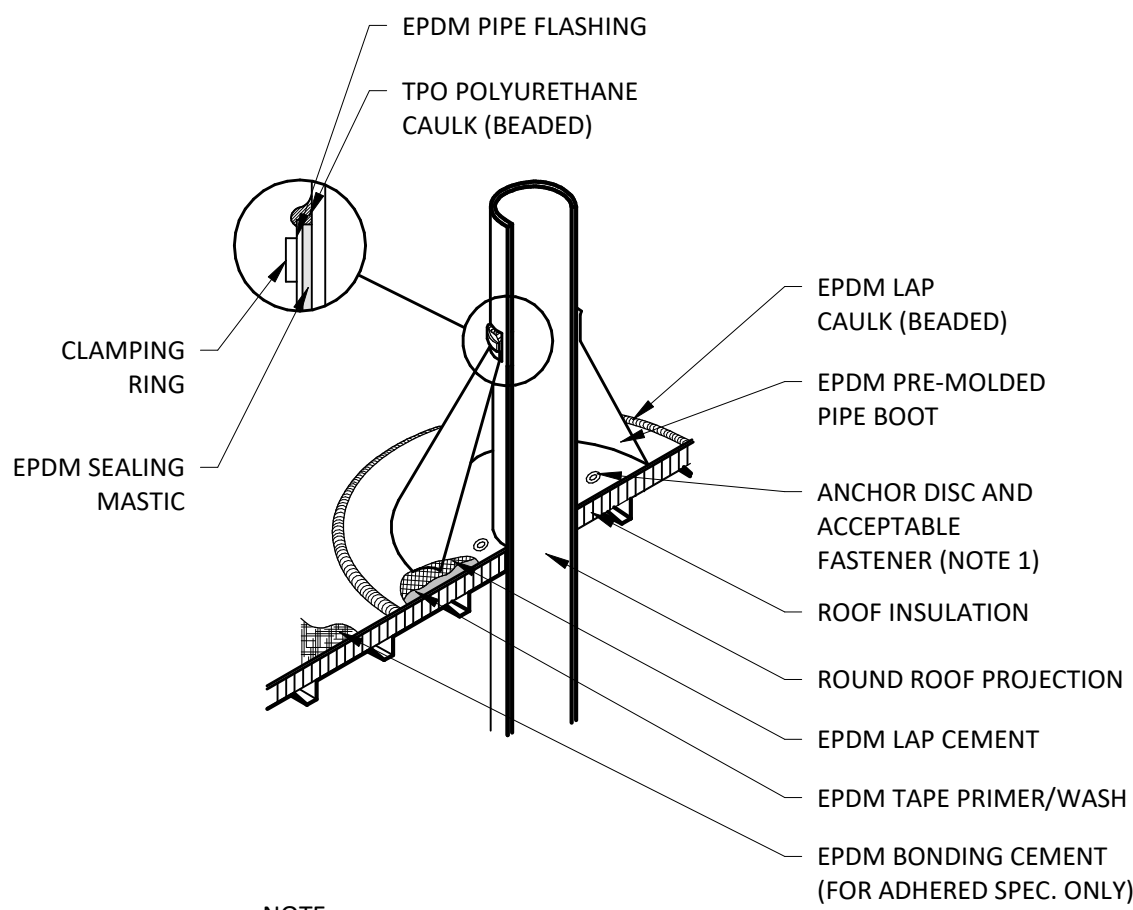
ROOF DRAIN DETAIL

4
A140
1/4" = 1'-0"



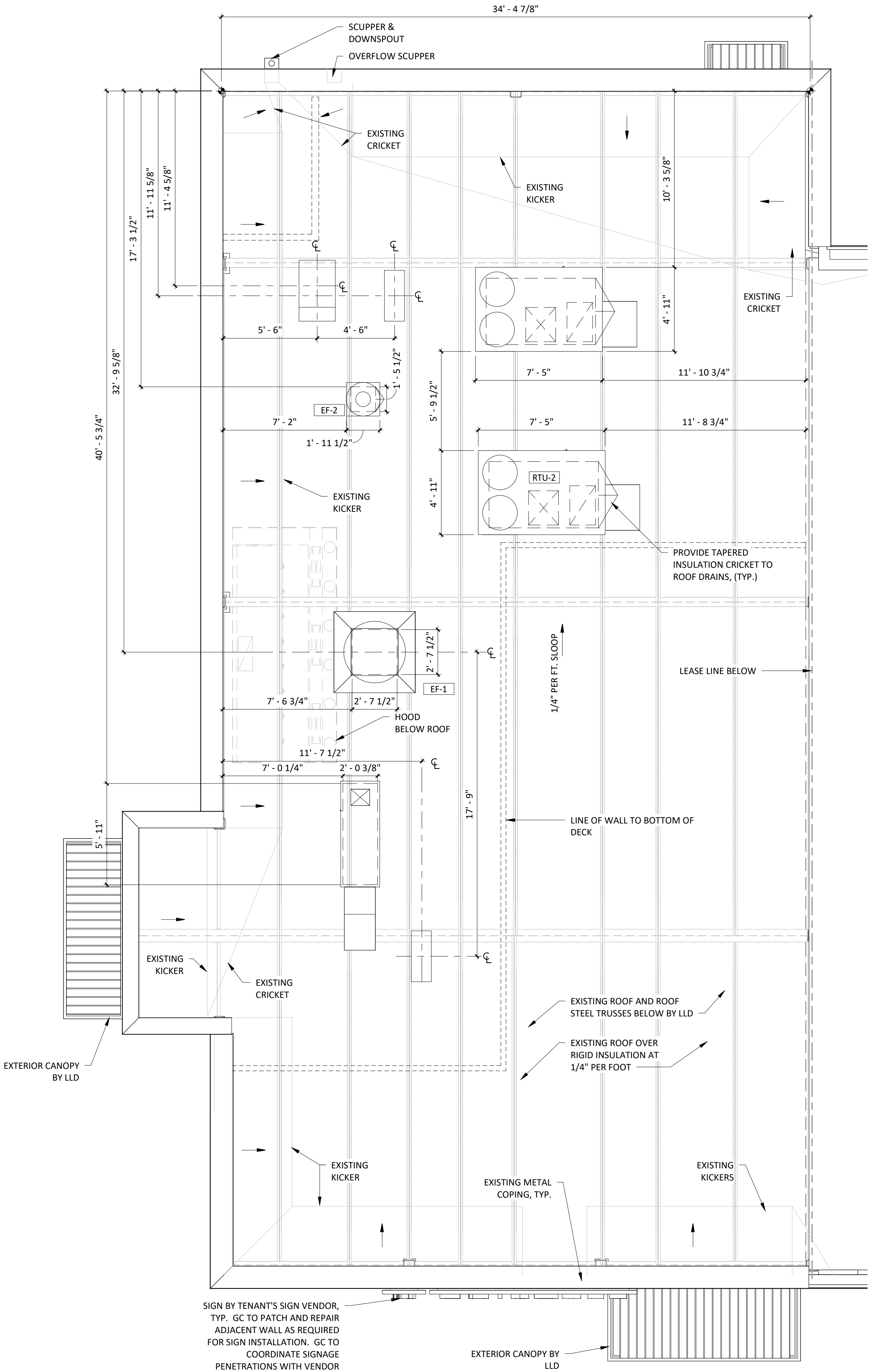
CURB FLASHING

3
A140
1/4" = 1'-0"



BOOT DETAIL

2
A140
1/4" = 1'-0"



ROOF PLAN

1
A140
1/4" = 1'-0"

GENERAL NOTES

- ALL INTERIOR LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER.
- ALL INTERIOR LIGHT FIXTURES AND LAMPS INSTALLED BY GC. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
- KITCHEN EXHAUST HOOD PROVIDED BY HS AND INSTALLED BY GC. GC TO COORDINATE PRESSURE TEST AND VIRO GUARD WITH ENVIROMATIC, INC.
- ANSUL BOX & FIRE SUPPRESSION SYSTEM PROVIDED BY AND INSTALLED BY HS. HOOD INTERLOCK BY GC. ELECTRICAL CONNECTION BY GC, RE: ELEC.
- MENU BOARD ASSEMBLY PROVIDED BY TMB, INSTALLED BY G.C.
- PROVIDE BLOCKING ABOVE MENU BOARD ASSEMBLY FOR INSTALLATION.
- REFER TO "09900 PAINTING - GENERAL" IN SPECIFICATIONS FOR FINISHES AT EXPOSED CEILING AREAS IN ADDITION TO NOTES LISTED ON THIS SHEET AND A120.
- UNISTRUT TO BE LEFT UNPAINTED. PROVIDE MATCHING CLOSER STRIPS AND END CAPS. CLOSER STRIP TO BE APPLIED TO THE UNDERSIDE OF THE UNISTRUT.
- ALL HEIGHTS ARE TO BOTTOM OF FIXTURE UNLESS NOTED OTHERWISE.
- LIGHT DETAILS ARE LOCATED ON SHEET A210. FIXTURE AND LAMP SPECIFICATIONS ARE LOCATED ON E100.
- ALL UNISTRUT SUPPORTING CEILING ELEMENTS AND/OR DUCT WORK SHALL NOT CONTAIN ANY ELECTRICAL CONDUIT. ALL ELECTRICAL CONDUIT MUST RUN IN SEPARATE UNISTRUT.
- ALL UNISTRUT, CONDUIT, SPRINKLER & WATER LINES SHALL BE INSTALLED TO THE BOTTOM OF THE DECK OR AS SHOWN IN DETAILS AND LEFT UNPAINTED
- ALL WATER LINES AND EXPOSED PCV SHALL BE INSTALLED UP IN TRUSSES AND PAINTED VICTORIAN PEWTER.
- ALL DIMENSIONS ARE TO FACE OF FRAMING, OR CENTERLINE OF FIXTURE UNLESS NOTED OTHERWISE.
- SEE ELECTRICAL DRAWINGS FOR SHATTER RESISTANT LAMP LOCATIONS.
- ALL EMERGENCY FIXTURES, LIGHTS AND STROBES SHALL BE ALIGNED OR CENTERED ON WALLS.
- FULL CERAMIC TILE COURSING SHALL TAKE PRECEDENT OVER ANY CEILING/HEADER DIMENSION INDICATED IN THE PLAN, REFER TO A120.
- 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.
- BATT INSULATION TO BE INSTALLED ABOVE THE RESTROOM CEILING.
- ALL LAY-IN CEILING PENETRATIONS TO BE HELD TIGHT TO WALLS. REFER TO 10/A210 AND PLUMBING DRAWINGS FOR DETAILS.
- REFER TO STRUCTURAL DRAWINGS FOR HOOD SUSPENSION DETAILS.
- ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS PROVIDED BY TENANT'S LIGHT/LAMP SUPPLIER, U.N.O.
- ALL EXTERIOR PARKING LOT LIGHT FIXTURES AND LAMPS PROVIDED BY AND INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
- ALL EXTERIOR BUILDING MOUNTED AND PATIO LIGHT FIXTURES AND LAMPS INSTALLED BY G.C. CAREFULLY REVIEW LIGHTING FIXTURE SCHEDULE ON SHEET E100.
- SECURITY CAMERA LOCATIONS ARE ONLY APPROXIMATE LOCATIONS. FOR GUIDANCE ON THE SPECIFIC LOCATION/ORIENTATION OF THESE CAMERAS, REFER TO THE ENVYSION INSTALLATION GUIDE
- REFER TO A120 FOR FINISH SCHEDULE

LIGHT FIXTURE SCHEDULE

ITEM #	QTY	MOUNT	DESCRIPTION	REMARKS
A1	11	LAY-IN	2x2 LENSED TROFFER	SEE SHEET E100
B1	7	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B2	35	CEILING	RECESSED 6IN CAN LIGHT	SEE SHEET E100
B3	4	CEILING	M4.0 - RECESSED 6IN CAN LIGHT (BLACK)	SEE SHEET E100
C0	2	SURFACE	LOW PROFILE LED 1FT	SEE SHEET E100
C2	6	SURFACE	LOW PROFILE LED 3FT	SEE SHEET E100
C3	6	SURFACE	LOW PROFILE LED 4FT	SEE SHEET E100
C4	8	SURFACE	LOW PROFILE LED 5FT	SEE SHEET E100
E1	4	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
E2	3	VARIOUS	EMERGENCY LIGHT - SINGLE HEAD	SEE SHEET E100
E4	3	VARIOUS	WHITE EXIT LIGHT - STANDARD RED LETTERS	SEE SHEET E100
E7	9	VARIOUS	EMERGENCY LIGHT - DUAL HEAD	SEE SHEET E100
H1	8	SURFACE	VAPOR PROOF HOOD LIGHT	SEE SHEET E100
J4	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P3	2	WALL	ACCENT LIGHT - ARTWORK LIGHT FIXTURE	SEE SHEET E100
P5	2	PENDANT	M4.0 - PENDANT LIGHT	SEE SHEET E100
P6	1	PENDANT	M4.0 - MULTI-PENDANT LIGHT	SEE SHEET E100 & A701
T1	14	TRACK	TRACK LIGHTING HEAD	SEE SHEET E100
T-6	4	SUSPENDED	M4.0 - TRACK 6'	SEE SHEET E100
T-8	1	SUSPENDED	M4.0 - TRACK 8'	SEE SHEET E100
X9	2	SURFACE	LED CHANNEL LIGHT	SEE SHEET E100

SECURITY SYSTEM

*REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION

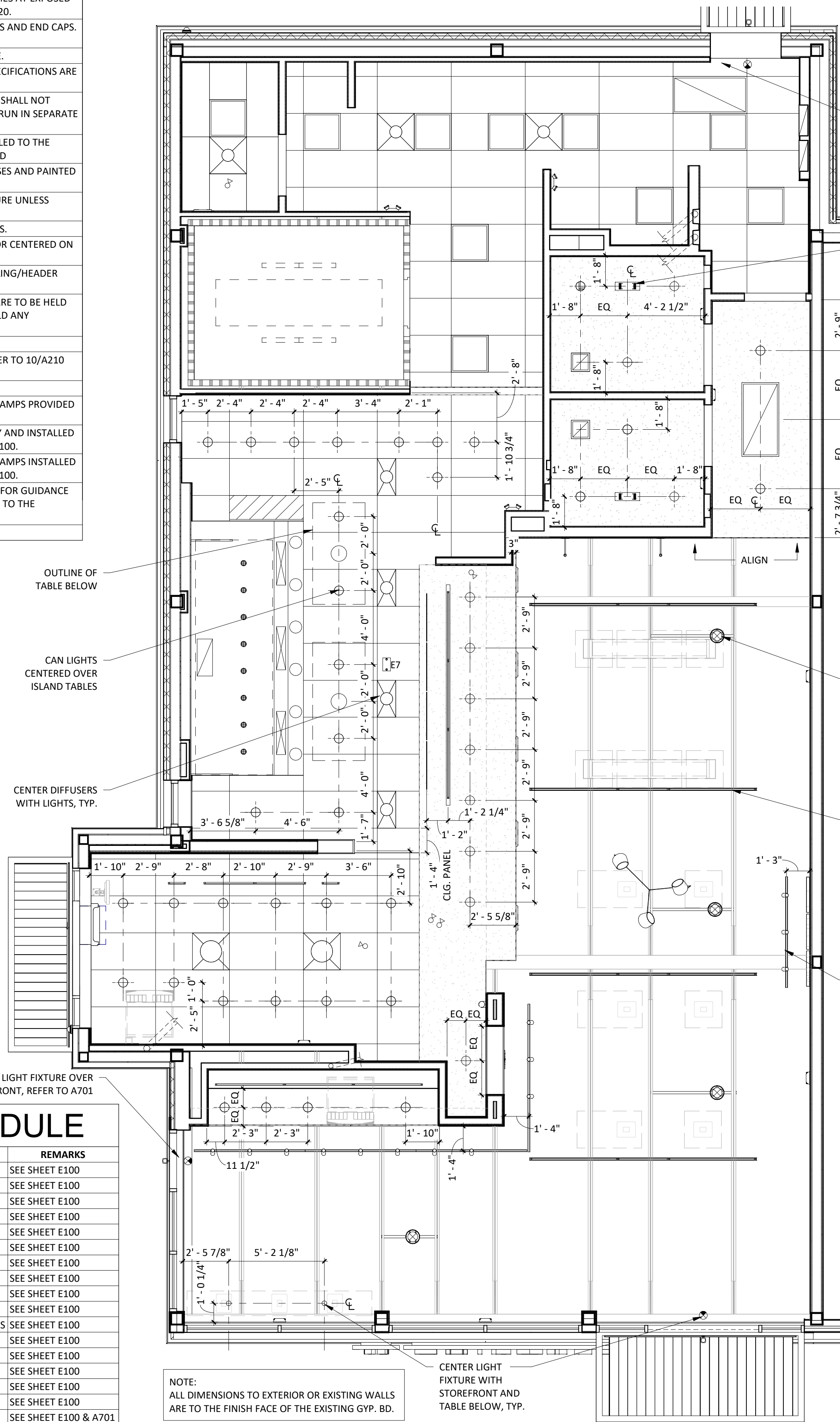
DESCRIPTION	QTY	SUPPLIED BY	INSTALLED BY	ELEC	GAS	SEWER	WATER	REMARKS
SECURITY MONITOR	1	SSS	SSS	•				
SECURITY ALARM - MOTION DETECTORS	1	T.B.D.	T.B.D.	•				GC RESPONSIBLE FOR COORDINATING SEQUENCING OF PREWIRING WITH COMPLETION OF INTERIOR FINISHES (GYP. BD. FINISHES)
72 HR SECURITY DVR	1	SSS	SSS	•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

CONDUIT GUIDELINES

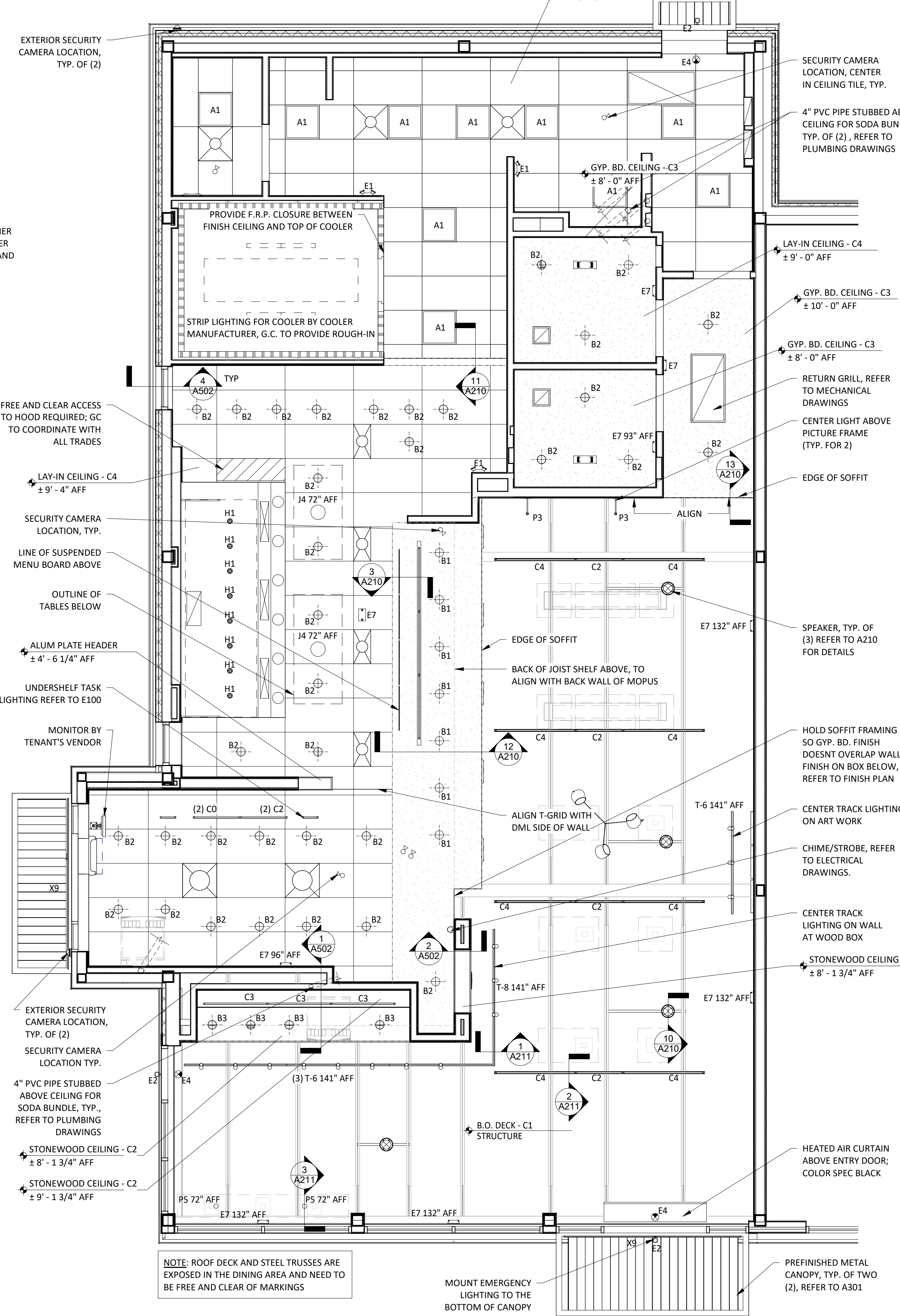
SEE ELECTRICAL DRAWINGS FOR CONDUIT REQUIREMENTS. METAL CLAD CABLE AND FLEXIBLE METAL CONDUIT SHALL NOT BE INSTALLED IN AREAS EXPOSED TO VIEW UNLESS SPECIFICALLY NOTED OTHERWISE.

SPEAKER SCHEDULE

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



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



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

Consultant:

HBC

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M.T.W.	J.C.C.
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21113	
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REFLECTED CEILING PLAN

REFER TO A201 FOR GENERAL NOTES

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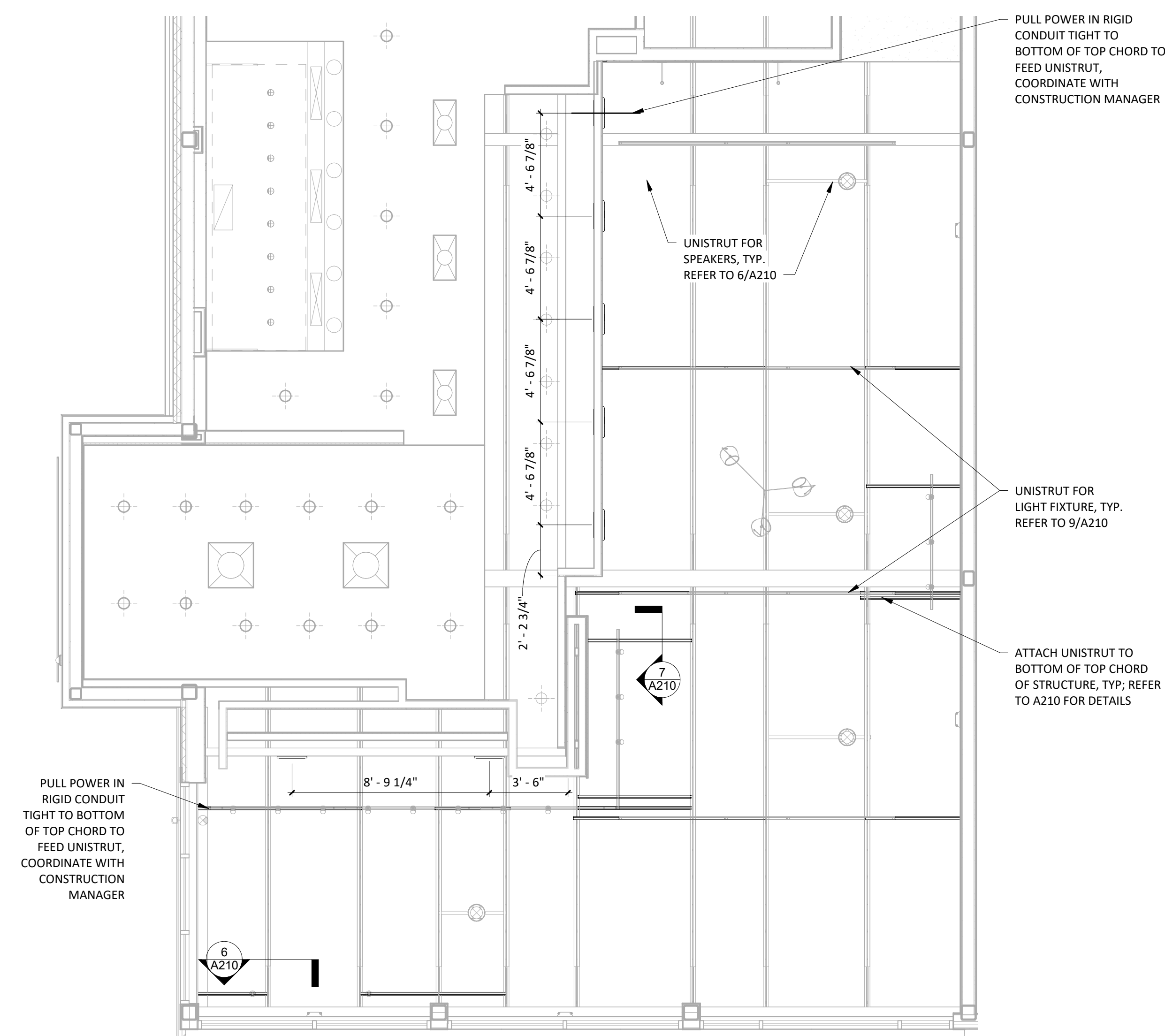
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Contents

REFLECTED CEILING &
UNISTRUT PLAN

A202

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UNISTRUT AND DUCTWORK LAYOUT

$$1/4'' = 1'-0''$$

GENERAL NOTES

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

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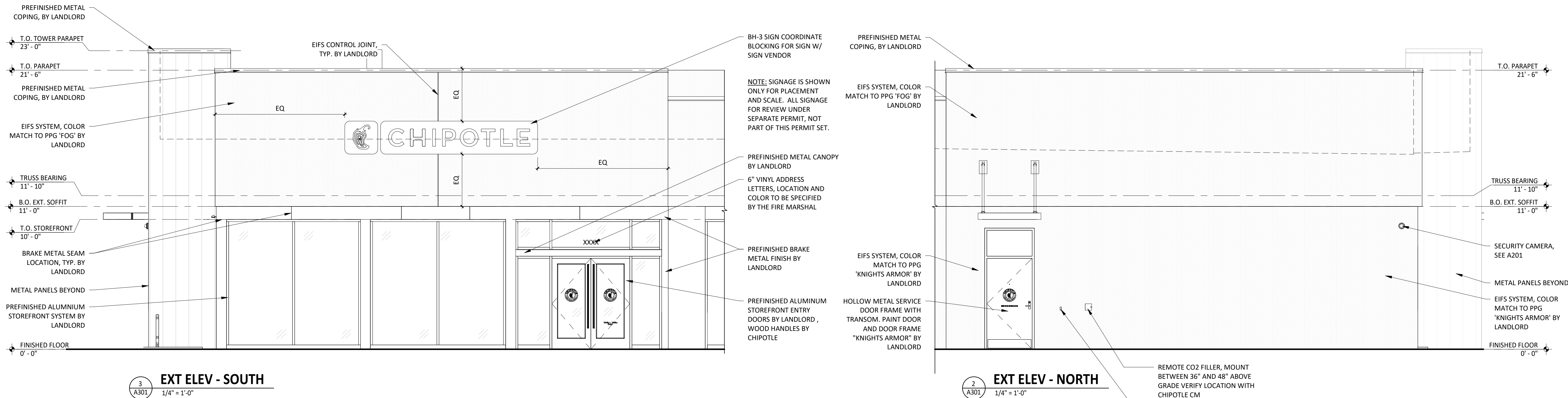
21113

Contents:

EXTERIOR ELEVATIONS

A301

SHEET#: 25 OF 34



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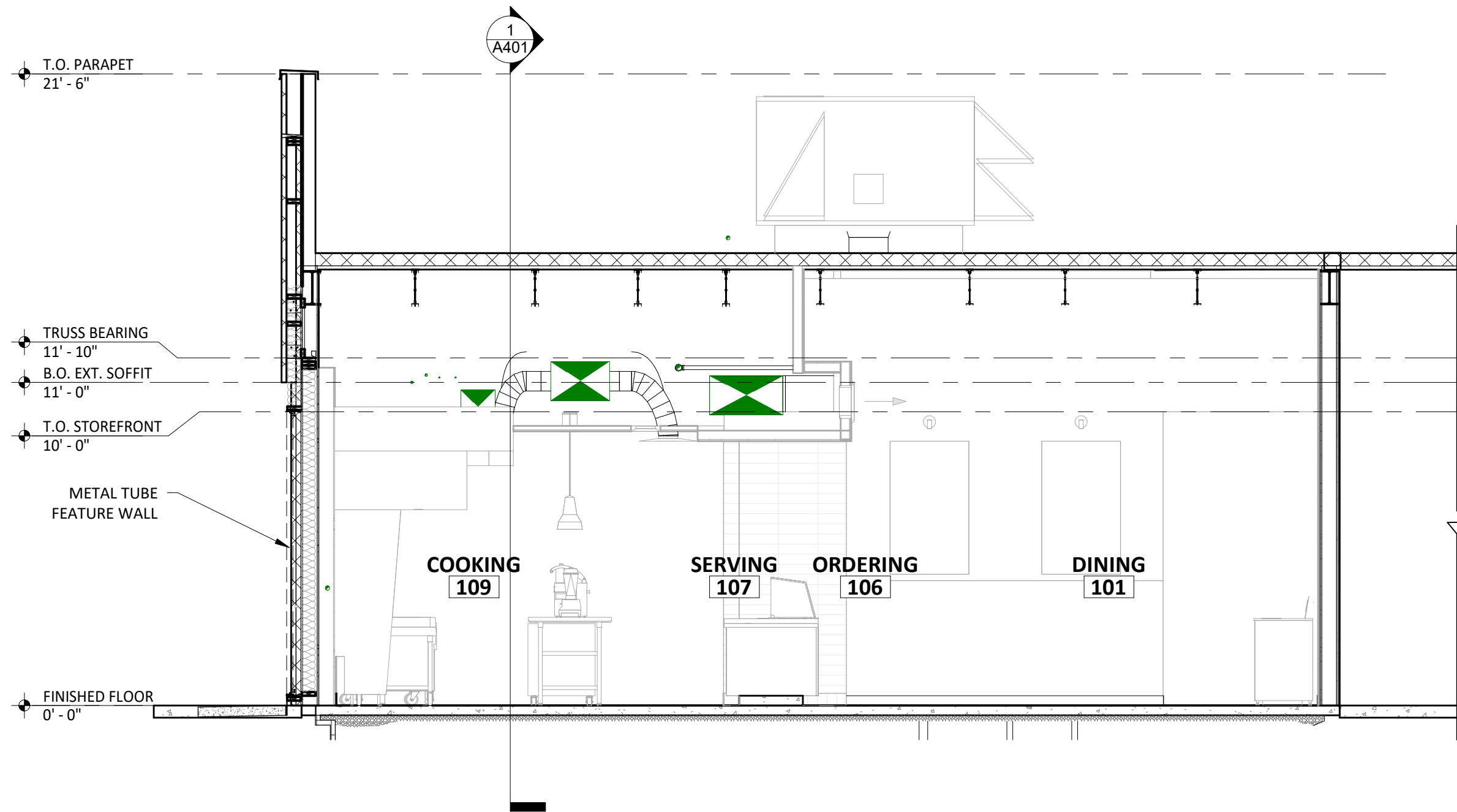
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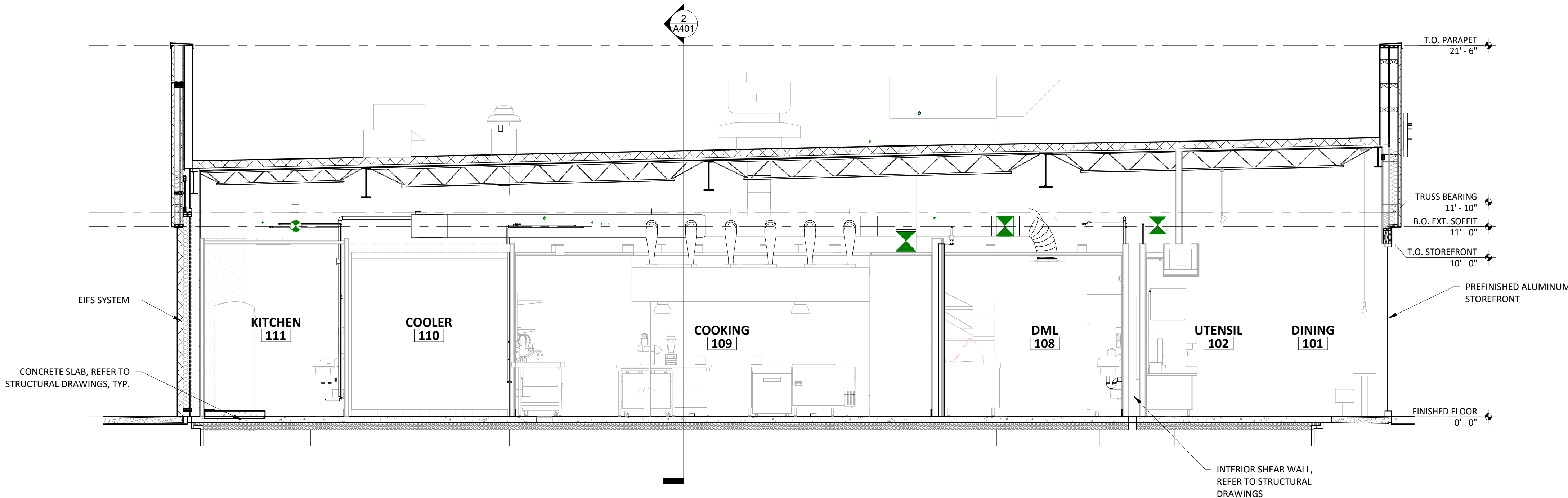
BUILDING SECTIONS

A401

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



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



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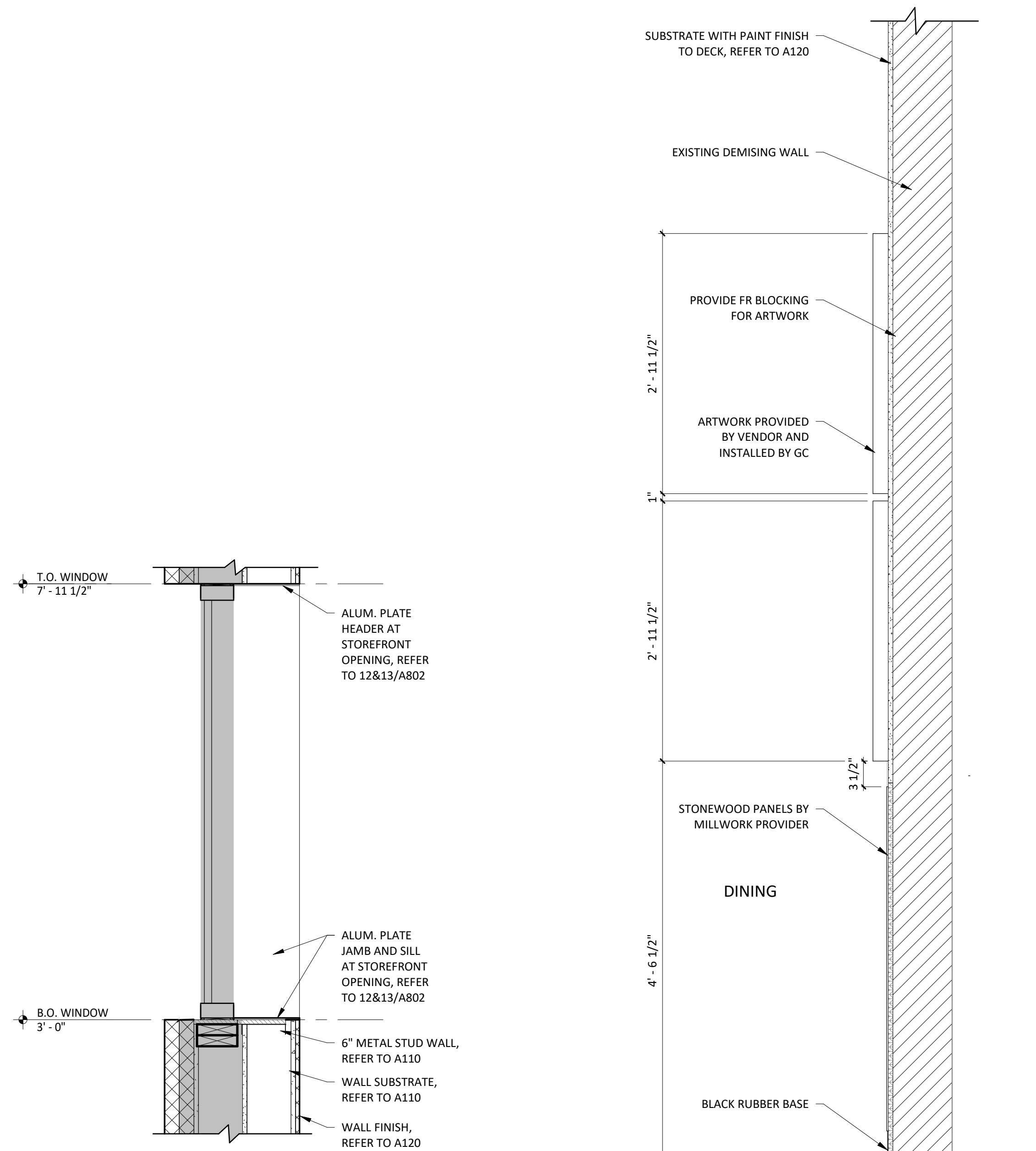
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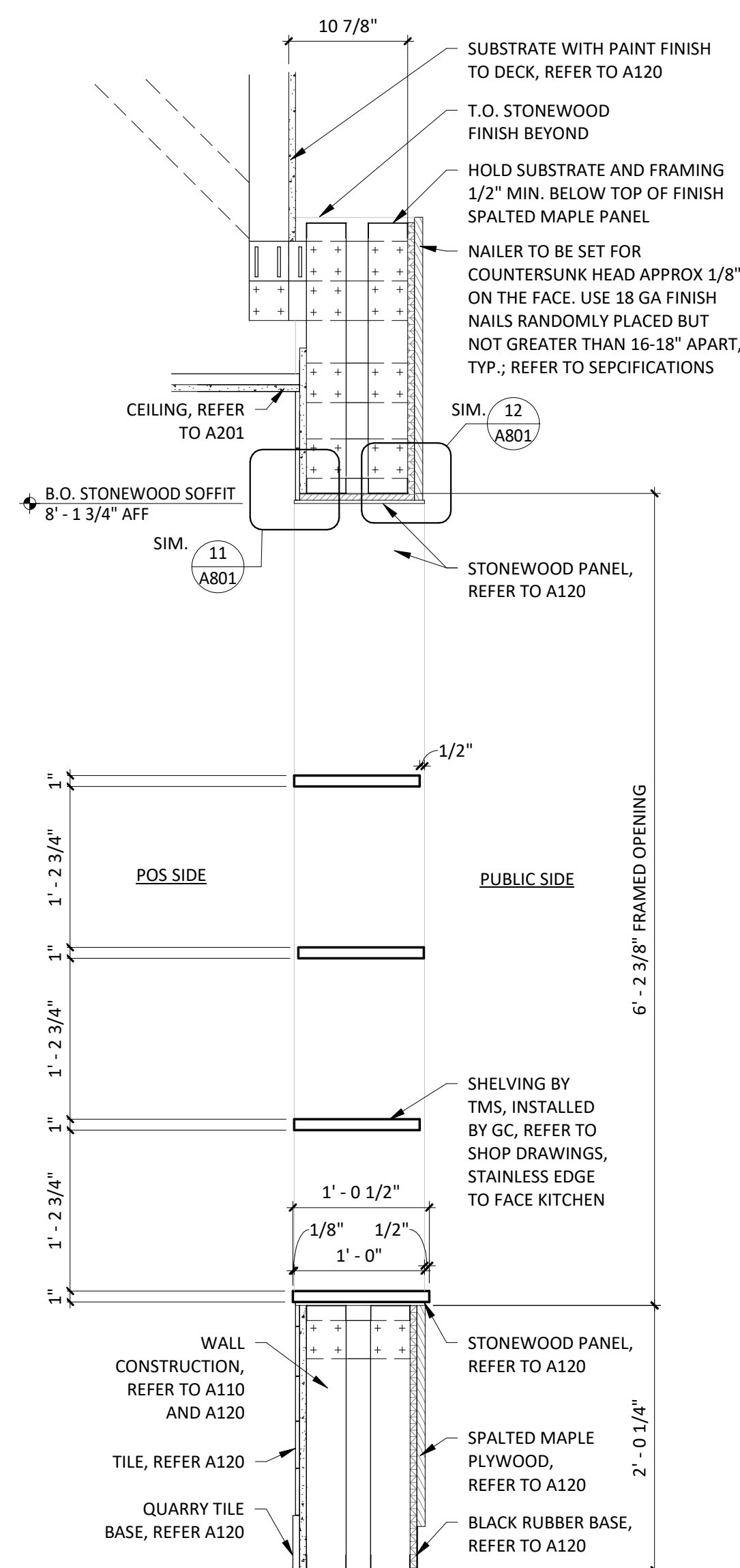
INTERIOR SECTIONS

A502

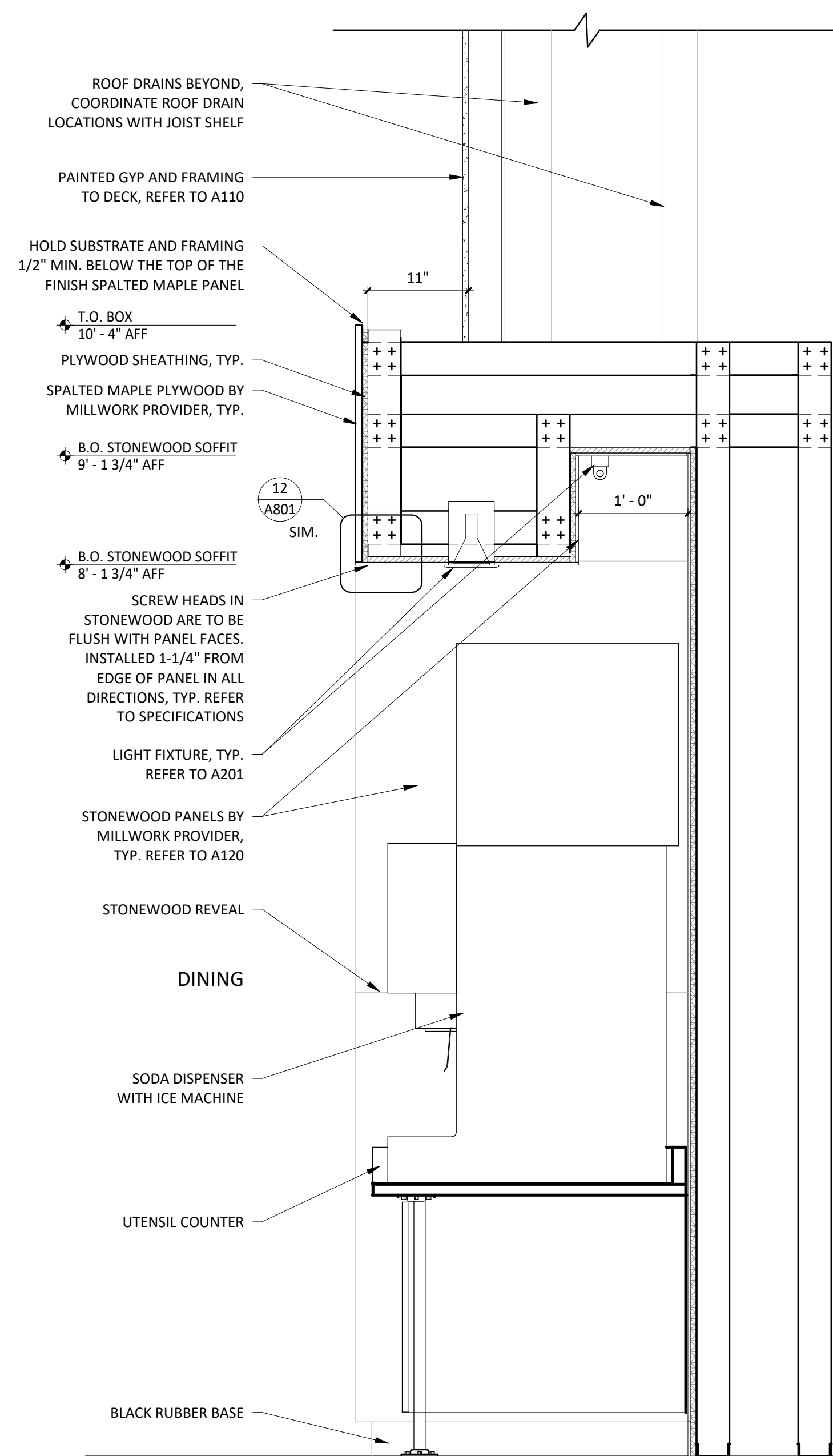
SHEET#: 28 OF 34



WINDOW FINISH DETAIL

$$1'' = 1' - 0$$


MOPUS SECTION - PASS THRU

$$1'' = 1' - 0'$$


UTENSIL SECTION

$$1'' = 1' - 0$$

DOOR SCHEDULE

TAG	ROOM	DOOR STATUS *	FRAME STATUS	DOOR DESCRIPTION	DOOR WIDTH	DOOR HEIGHT	THICKNESS	DOOR DOOR TYPE	DOOR FINISH	FRAME FRAME TYPE	MATERIAL	STILE	HARDWARE SET	HARDWARE STATUS*	FIRE RATING	REMARKS
1	MAIN ENTRY	EXISTING	NEW	DOUBLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	6' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	1	NEW		1,2,4,5
2	DINING	EXISTING	NEW	SINGLE STOREFRONT (WIDE STILE, WOOD PULL/PUSH)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A301	STOREFRONT	ALUM	WIDE (5")	2B			1,3,4,5
3	KITCHEN	NEW	NEW	HM REAR KITCHEN (STANDARD)	3' - 6"	7' - 0"	0' - 1 3/4"	D	D1/D2 (SEE A120)	2	H.M.	-	3	NEW		1,4,6
4	UNISEX 1	NEW	NEW	UNISEX 1 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	6	NEW		
5	UNISEX 2	NEW	NEW	UNISEX 2 RESTROOM (SINGLE-OCCUPANT, STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	B	D1 (SEE A120)	1	H.M.	-	5	NEW		
6	KITCHEN	NEW		(none)	3' - 0"	7' - 0"	0' - 1 3/4"									
7	OFFICE	NEW	NEW	MANAGER'S OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	C	D1 (SEE A120)	1	H.M.	-	4	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

ALIGN TOP OF WOOD PULL WITH TOP OF GLASS

WOOD PULL BY TENANT MILLWORK SUPPLIER; REFER TO HARDWARE SCHEDULE, THIS SHEET

12" PEPPER DISC LOGO IN HIGH PERFORMANCE, CAST VINYL COLOR: 'WHITE'

CYLINDER WITH CONCEALED RODS, REFER TO DOOR HRDWARE

HOURS OF OPERATION 1.125" FONT: GOTHAM MEDIUM COLOR: 'WHITE'

TEMPER INSULATED GLASS

TYP. DOORS, REFER TO DOOR SCHEDULE FOR STILE

12" PEPPER DISC LOGO IN HIGH PERFORMANCE CAST VINYL COLOR: 'WHITE' OR 'BLACK' CONFIRM PRIOR TO ORDERING

SERVICE ENTRANCE 1.125" FONT: GOTHAM MEDIUM COLOR: 'WHITE'

TYP. METAL SERVICE DOOR

MAIN/SINGLE ENTRY DOOR

SERVICE DOOR

HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - WOOD PULL/PUSH			
(2)	HINGE		HAGER, MODEL 780-224HD-83"-CLR
(2)	MORTISE CYLINDER		SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(2)	TEMP CORE		SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (BRUSHED CHROME)
(2)	PUSH HARDWARE		1 1/2" DIAMETER WOOD PUSH, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(2)	PULL HARDWARE		1 1/2" DIAMETER WOOD PULL, VARIES HIGH - PROVIDED BY MILLWORK SUPPLIER. MOUNT TOP OF PULLS FLUSH WITH TOP OF GLAZING STOP IN DOOR, RE: SHOP DRAWINGS
(1)	DEADBOLT		ADAMS RITE, MODEL MS1850S-310-628
(1)	EXIT INDICATOR		ADAMS RITE, MODEL 4089-00-130
(1)	HEADER BOLT		ADAMS RITE, MODEL 4016-30-01
(1)	THRESHOLD BOLT		ADAMS RITE, MODEL 4015-18-18
(2)	CLOSER		DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP		IVES, MODEL FS18S (ALUMINUM)
(2)	OVERHEAD STOP		GLYNN-JOHNSON, MODEL 454S-SP28 (ALUMINUM)
(2)	CLOSER BACK PLATE		DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD		REESE, MODEL S239A-72 (SIZE 72")
(2)	SMOKE SEAL		REESE, MODEL 797B-21
(2)	DOOR SWEEP		PEMCO, MODEL SFS-C-200-36 (36" DOOR),OWNER FURNISHED

SET 2A - ENTRY - SINGLE - NON-OFFSET - PANIC HARDWARE			
(1)	HINGE		HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE		ADAMS RITE, MODEL 8801-36-628 (ALUMINUM FINISH, 36" DOOR); C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE		HAGER, MODEL 4G US32D (8" CTC), CENTER ON DOOR STILE
(1)	CLOSER		DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE		DORMA, MODEL BP89, ALUMINUM
(1)	OVERHEAD STOP		GLYNN-JOHNSON, MODEL 454S-US32D (ALUMINUM)
(1)	THRESHOLD		REESE, MODEL S424A-36 (SIZE 36")
(1)	SMOKE SEAL		REESE, MODEL 797B-21
(1)	DOOR SWEEP		PEMCO, MODEL SFS-C-200-36 (36" DOOR), OWNER FURNISHED
(1)	DOOR STOP		IVES, MODEL FS18S (ALUMINUM)

SET 3 - REAR EXIT - SINGLE			
(1)	HINGE		HAGER, MODEL 780-224HD-83"-CLR
(1)	PUSH HARDWARE		FALCON, MODEL 25-R-EO-4'-US28 (SIZE 42")
(1)	PULL HARDWARE		FALCON, MODEL 510L-DANE-LHR-US26D, ALUMINUM (EXTERIOR SIDE)
(1)	RIM CYLINDER		GLS, MODEL RCIC-7-LZ-626
(1)	TEMP CORE		SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER		DORMA, MODEL 8916-AF89P-689 (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE		DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD		REESE, MODEL S239A-42, (SIZE 42")
(1)	WEATHERSTRIP		REESE, MODEL DS75C-4070
(1)	DOOR SWEEP		PEMCO, MODEL SFS-C-200-42 (42" DOOR) (BLACK) OWNER FURNISHED
(1)	DOOR VIEWER		IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	EXIT ALARM		TRINE, MODEL 206-3
(1)	DOOR SILENCERS		IVES, MODEL SR64
(1)	DOOR BUZZER		TRINE, MODEL 240
(1)	KICKPLATE		HIAWATHA, MODEL KP834-US32D

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

SET 5 - UNISEX 2 RESTROOM - SINGLE OCCUPANT - STANDARD			
(3)	HINGE		STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER		FALCON, MODEL: SC61XRW/PAXALU
(1)	LOCKSET		SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP		DON-JO, 1407-630
(3)	DOOR SILENCERS		IVES, MODEL SR64
(2)	KICKPLATE		HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK		MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 6 - UNISEX 1 RESTROOM - SINGLE OCCUPANT - STANDARD			
(3)	HINGE		STANLEY, MODEL FBB179-4.5-US26 (06-8438)
(1)	CLOSER		FALCON, MODEL: SC61XRW/PAXALU
(1)	LOCKSET		SCHLAGE, MODEL AL40S-NEP-626
(1)	DOOR STOP		DON-JO, 1407-630
(3)	DOOR SILENCERS		IVES, MODEL SR64
(2)	KICKPLATE		HIAWATHA, MODEL KP834-32D
(1)	COAT HOOK		MILLS, MODEL FT6519, SUPPLIED BY WASHROOM ACCESSORIES VENDOR, MOUNT T.O. HOOK AT 47 1/2" AFF

SET 9 - KITCHEN/PASSAGE - KEYPAD LOCK			
(3)	HINGE		STANLEY, MODEL FBB179-26D (SIZE 4-1/2" x 4-1/2")
(1)	CLOSER		FALCON, MODEL: SC61XRW/PAXALU
(1)	LOCKSET		SCHLAGE, MODEL CO-100-CY-70-KP-RHO-626-PD
(1)	TEMP CORE		SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	DOOR VIEWER		IVES, MODEL U698B26D, C.O. VIEWER AT 60" FROM BOTTOM OF DOOR
(1)	DOOR STOP		DON-JO, 1407-630
(2)	KICK PLATE		HIAWATHA, MODEL KP834-32D

AIR CURTAIN DETAIL

ALUM. CLIP ANGLE SECURED TO SIDE OF VERTICAL MULLION

CONDUIT FROM AIR CURTAIN ROUTED INSIDE STOREFRONT MULLION

AIR CURTAIN AS SPECIFIED (DASHED)

TRANSOM PLAN DETAIL

EXIT SIGN PROVIDE WASHERS TO ALLOW FOR VISIBILITY OF TEST LIGHT

ATTACH EXIT SIGN CASE TO AIR CURTAIN FRAME WITH TOGGLE BOLT

AIR CURTAIN AS SPECIFIED, SURFACE MOUNT TO FACE OF EXISTING WALL, REFER TO MECH. DRAWINGS, COLOR TO BE BLACK COLOR

AIR CURTAIN MOUNTING PLATE, SECURE TO HORIZ. STOREFRONT FRAMING MEMBER AND CLIP ANGLES, COLOR TO MATCH STOREFRONT

TRANSOM ABOVE

CONDUIT FROM AIR CURTAIN ROUTED INSIDE STOREFRONT MULLION

ALUM. CLIP ANGLE SECURED TO SIDE OF VERTICAL MULLION BEYOND

EXISTING ALUM. STOREFRONT FRAMING MEMBER

EXISTING ALUM. AND GLASS ENTRY DOORS

LINE OF VERTICAL STOREFRONT FRAMING MEMBER BEYOND

NOTE: COLOR OF AIR CURTAIN TO MATCH STOREFRONT COLOR

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 763-525-4660 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

RE: DOOR SCHED

2"

2"

RE: DOOR SCHED

2"

2"

WINDOW BY LLD

2"

2"

2"

2"

7'-0"

9'-4"

1

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

2

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

CUSTOM WOOD PULL

INTERIOR

RE: DOOR SCHED

1 1/16"

EXIT DEVICE

SS TRUSS HEAD SCREW

ALUMINUM DOOR STILE

GLAZING STOP

DOOR GLAZING

SS CUSTOM BRACKET

RIM CYLINDER

SS BINDING POST

CUSTOM WOOD PULL

EXTERIOR

2 9/16"

DOOR TYPES

RE: DOOR SCHED

10"

EQ 10"

EQ

10"

RE: DOOR SCHEDULE

3'-7"

10"

1/4" CLEAR TEMPERED GLASS

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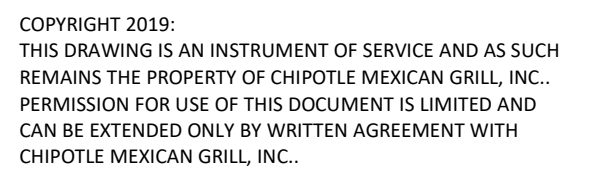
 DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.

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

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.

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HBC



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DENVER, COLORADO 80202
TELEPHONE: (303) 595-4000
FAX: (303) 595-4014
INTERNET: WWW.CHIPOTLE.COM

ISLANDIA
1900 VETERANS MEMORIAL HWY
ISLANDIA, NEW YORK 11749
PERMIT SET

01/23/2024

10/06/2023	LLD REVIEW SET
01/10/2024	PERMIT SET
	BID SET
	CONSTRUCTION SET

10/06/2023	LLD REVIEW SET
01/10/2024	PERMIT SET
	BID SET
	CONSTRUCTION SET

[illegible]

Project No.

21113

ELEVATIONS - INTERIOR DINING

SHEET#: 30 OF 34



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

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

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
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01/23/2024

SHEET#: 31 OF 34

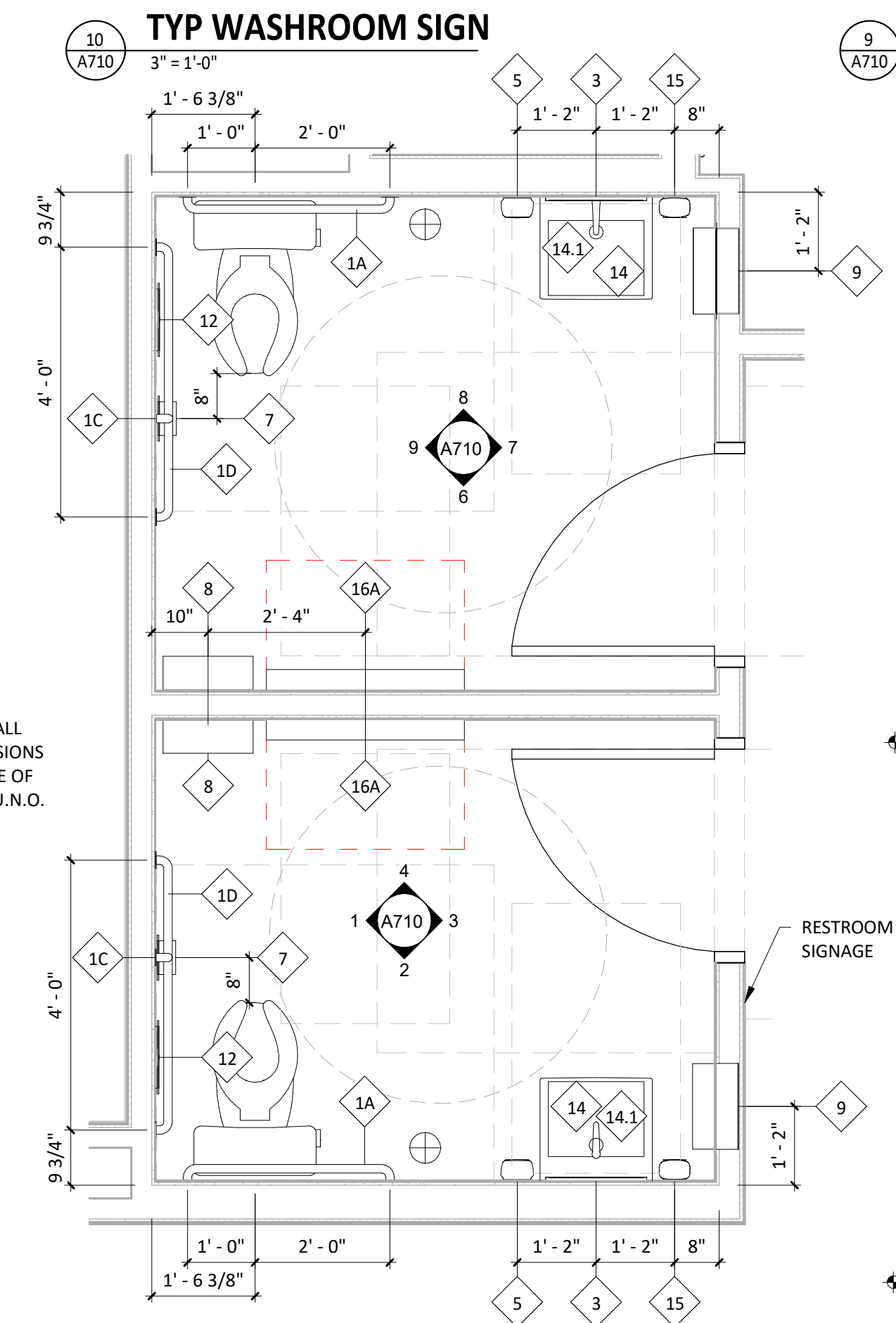
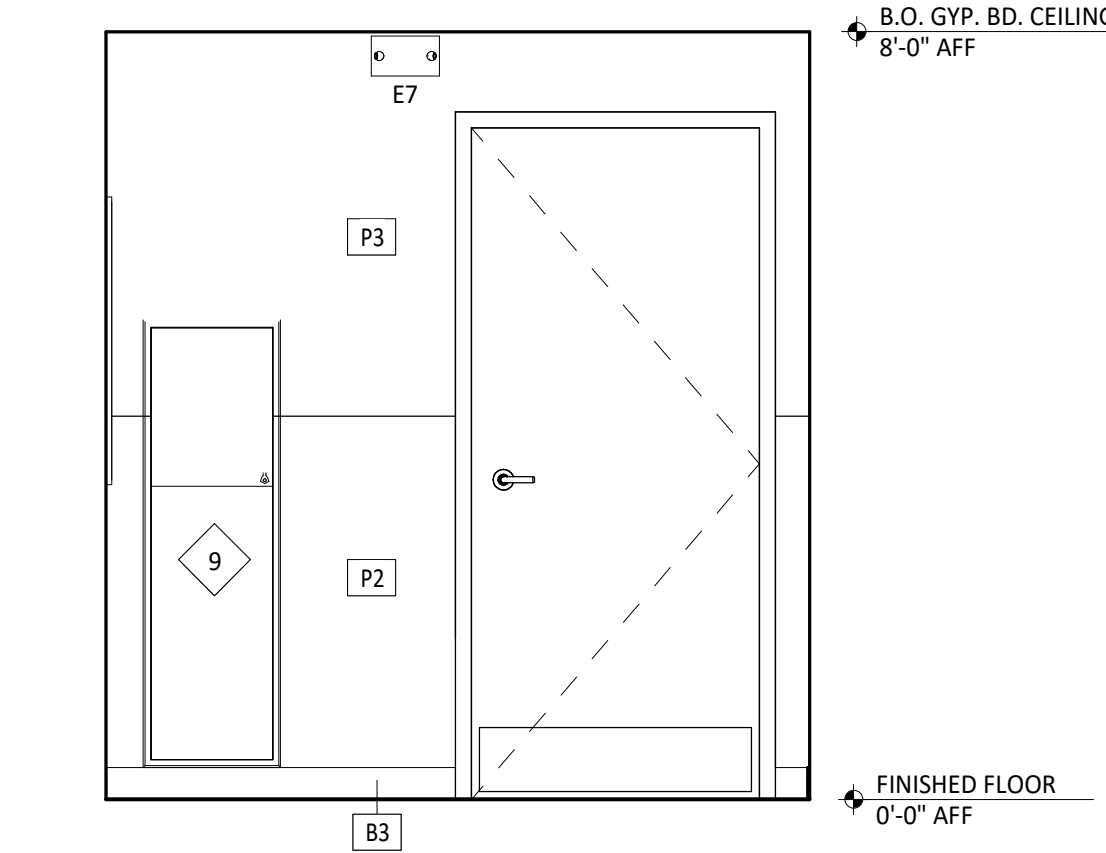
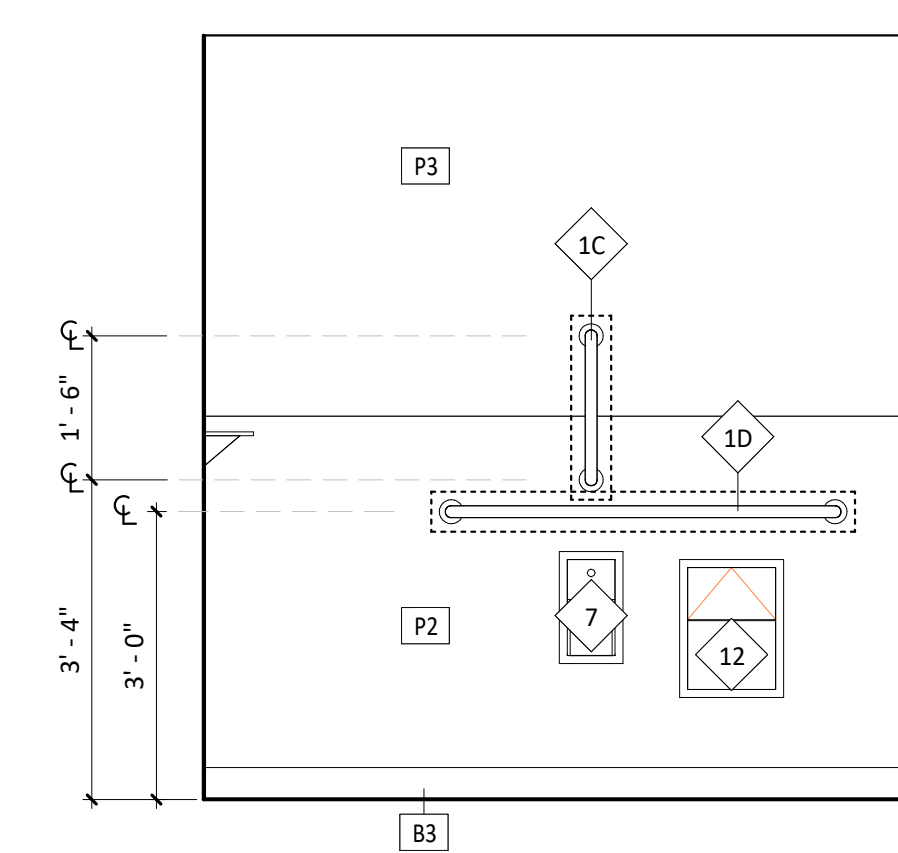


(A702) $1/4'' = 1'-0''$

ITEM #	DESCRIPTION	MANUF	MODEL	QTY	PROVIDED BY	INSTALLED BY	UTILITY				MOUNTING HEIGHT	REMARKS
							ELEC	GAS	WATER	SEWER		
1A	Grab Bar - 36in	ASI	3501-36	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
1C	Grab Bar - 18in	ASI	3501-18	2	WA	GC					40" AFF to Centerline of Bottom Return	Provide Plywood Blocking to Mount to Wall
1D	Grab Bar - 48in	ASI	3501-48	2	WA	GC					36" AFF to Top of Grasping Surface	Provide Plywood Blocking to Mount to Wall
3	Mirror	ASI	600-B1836	2	WA	GC					Bottom Edge of Reflecting Surface at 40" AFF	Provide Plywood Blocking to Mount to Wall
5	Touch-Free Soap Dispenser	Purell	CS8	2	WA	GC					47 1/2" AFF to Top of Unit	
7	Recessed Toilet Paper Dispenser	ASI	0031	2	WA	GC					29" AFF to Top of Unit	Recess Mounted in Wall - Rough Opening: 6 1/4"W X 12 1/4"H X 3 3/8"D Top of Rough Opening: 29 1/4" AFF
8	Utility Shelf	ASI	0692	2	WA	GC					46" AFF To Top Of Shelf	Provide Toggle Bolts to Mount to Wall
9	Recessed Convertible Paper Towel Dispenser and Waste Receptacle, Recess Mounted in Wall	Bobrick	B-3944	2	WA	GC					Bottom of Unit at Top of Base, Bottom of Dispenser to be at 40" AFF, Recess Mounting In Wall	Rough Opening: 16"W x 54 3/4"H x 4" D. Provide Plywood Blocking to Mount to Wall
12	Napkin Disposal - Recessed	ASI	0473	2	WA	GC					Top of Rough Opening @ 29" AFF	Recess Mounted in Wall - Rough Opening: 11 1/4"W X 15 3/4"H X 4"D
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-TMW-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	K8200-05	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

1. ALL DIMENSIONS ARE TO FACE OF STUD UNLESS OTHERWISE NOTES.
2. REFER TO A802 FOR TILE NOTES.
3. ALL ACCESSORIES SHALL BE AS MANUFACTURED BY AMERICAN SPECIALTIES INC OR TENANT APPROVED EQUIVALENT UNLESS DESIGNATED OTHERWISE. PROVIDE SOLID FRT WOOD BLOCKING AS NECESSARY FOR INSTALLATION PER MANUFACTURER'S RECOMMENDATIONS. SEE SHEET G002 FOR ACCESSIBILITY GUIDELINES & MOUNTING HEIGHT REQUIREMENTS.
4. REFER TO A120 FOR FINISH SCHEDULE.
5. REFER TO A201 AND ELECTRICAL DRAWINGS FOR LIGHT FIXTURE SCHEDULE.

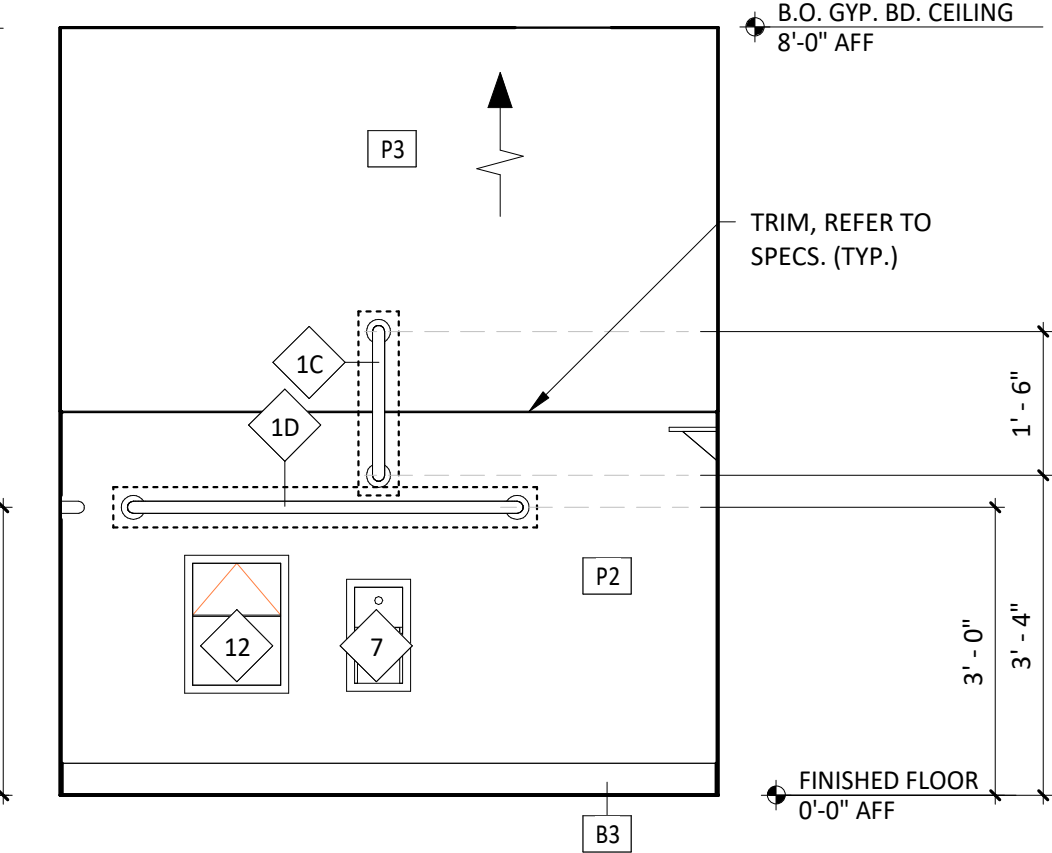
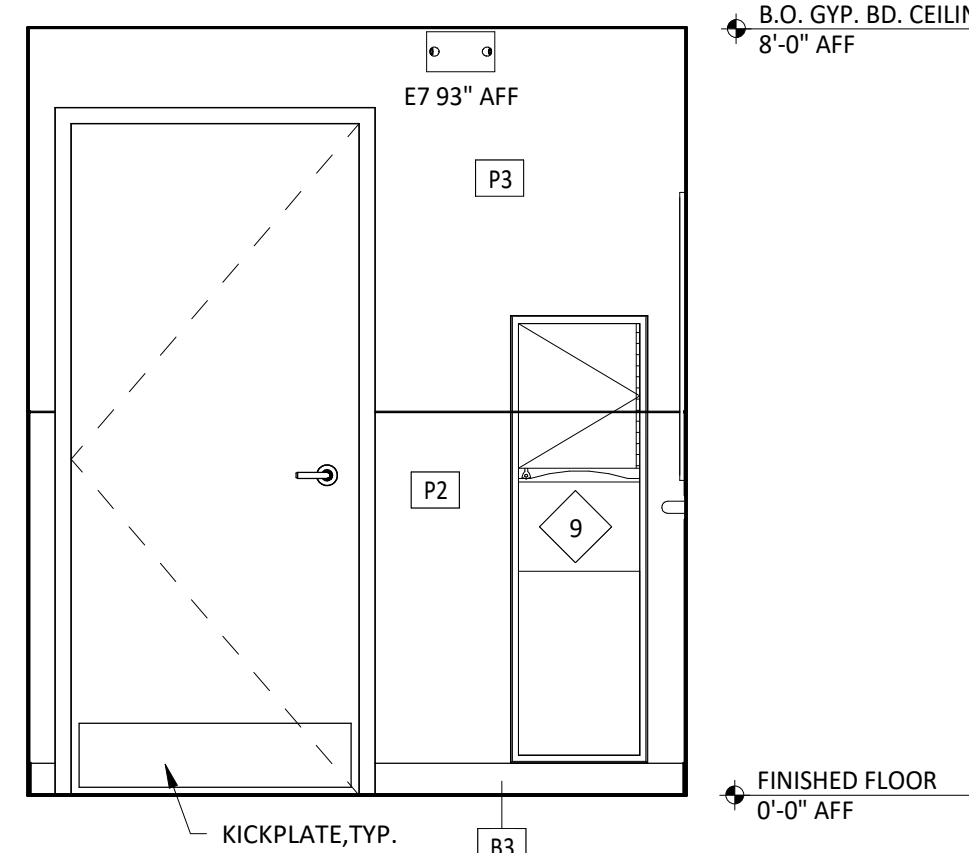
 DENOTES WOOD BLOCKING IN WALL BEHIND WALL MOUNTED OBJECT U.N.O.



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A710

UNISEX 2 RESTROOM - ELEV

1/2" = 1'-0"

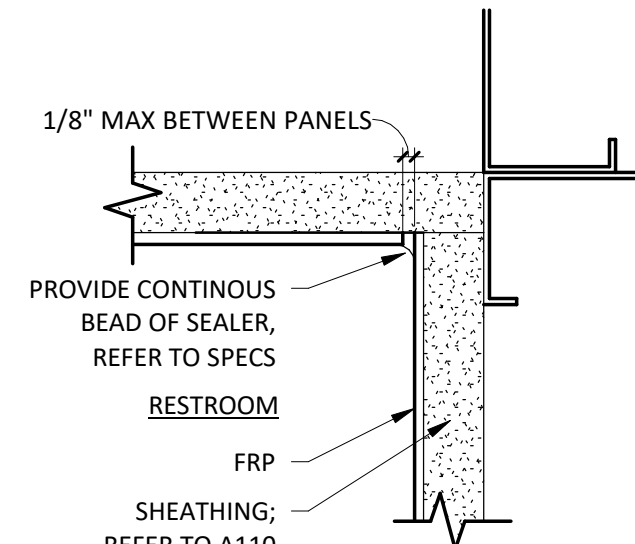


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UNISEX 1 RESTROOM - ELEV

1/2" = 1'-0"

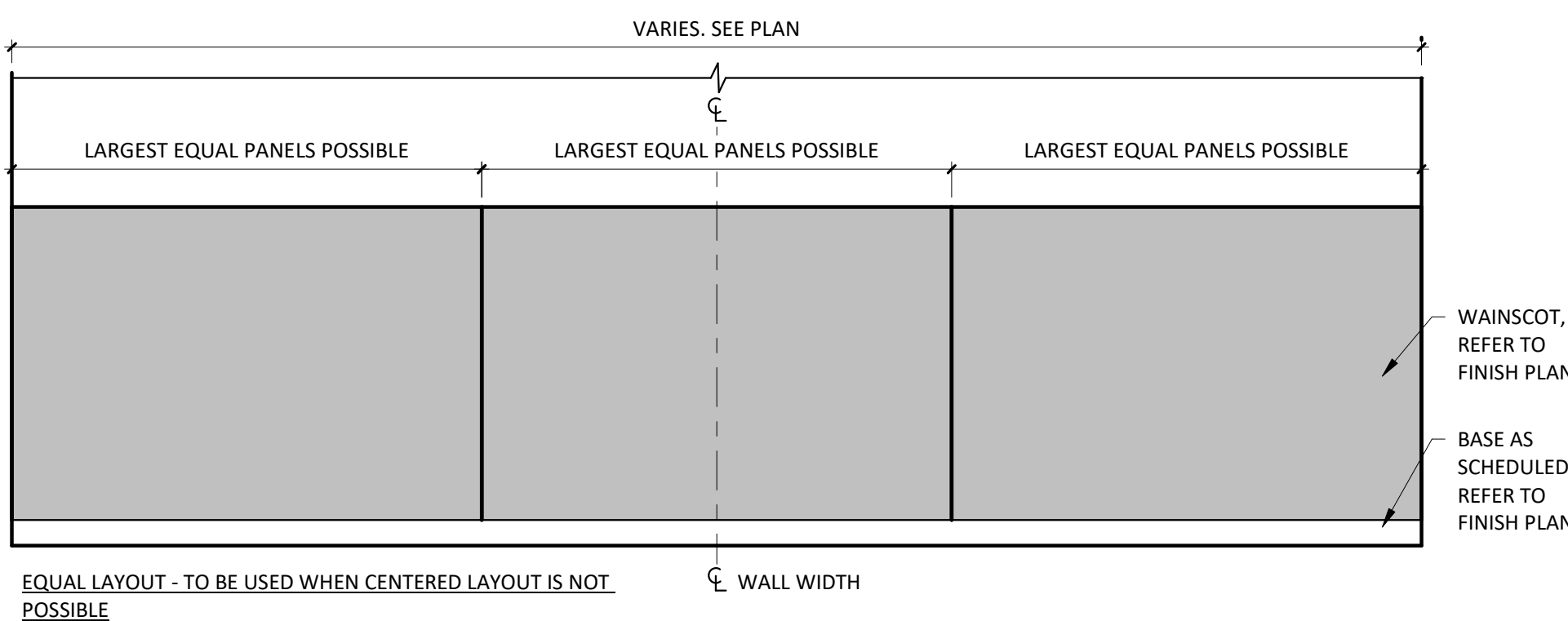
SHEET#: 32 OF 34



20
A801

PLAN - RR FRP INSIDE CORNER

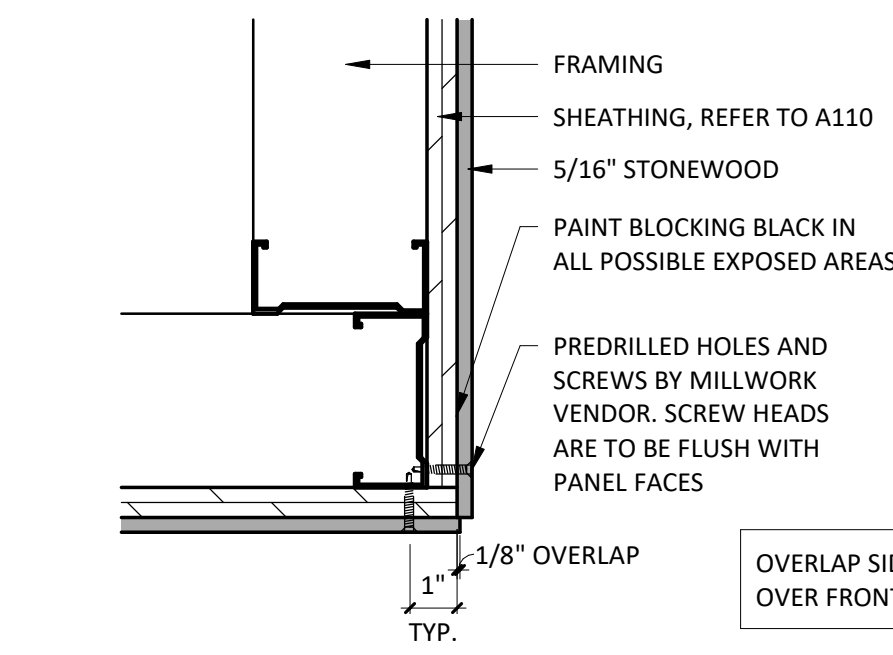
6" = 1'-0"



15
A801

NOT USED

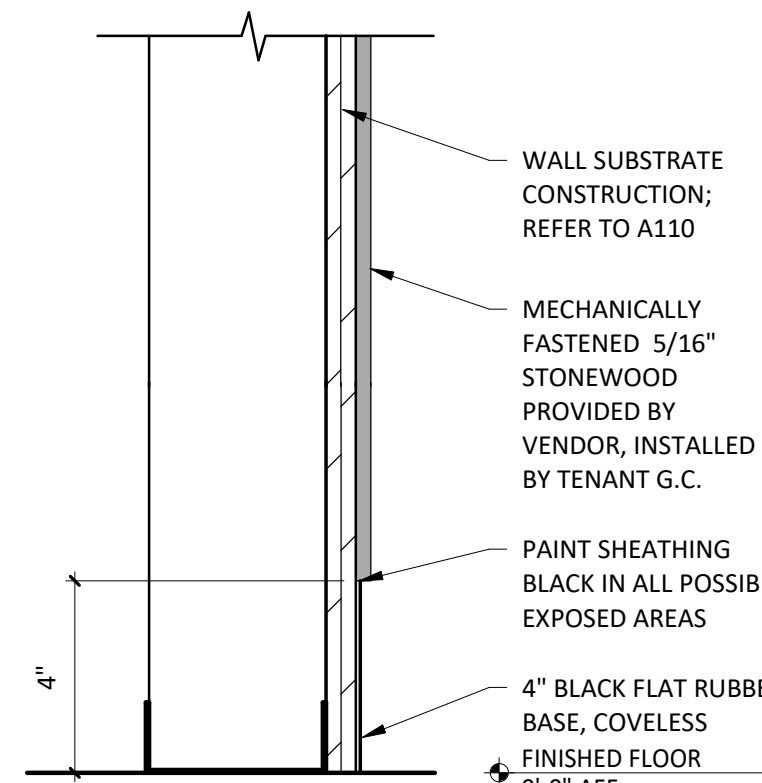
$1\frac{1}{2}'' = 1'-0''$



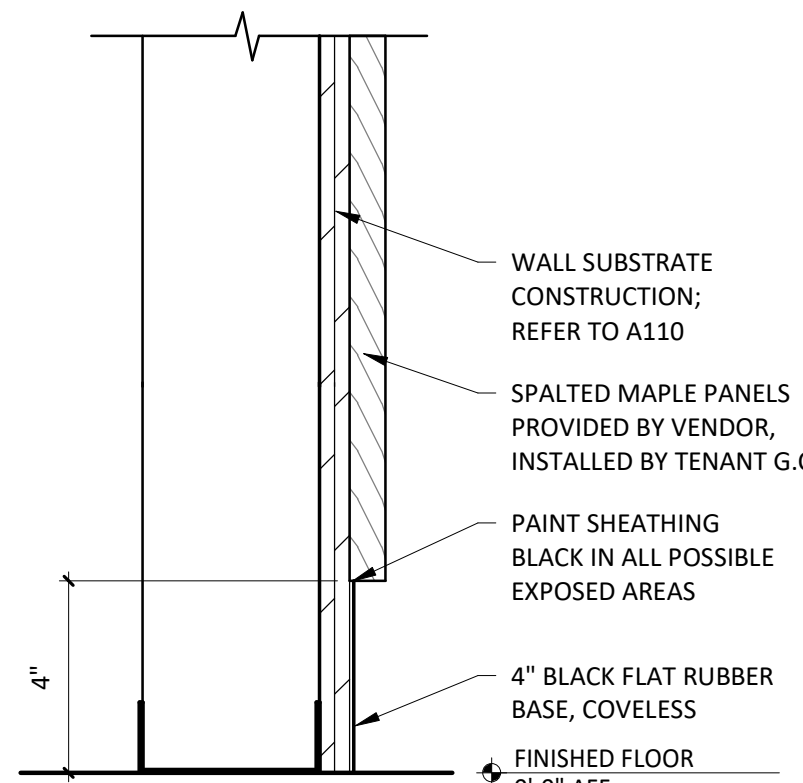
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PLAN - STONEWOOD CORNER @ WAINSCOT

3" = 1'-0"



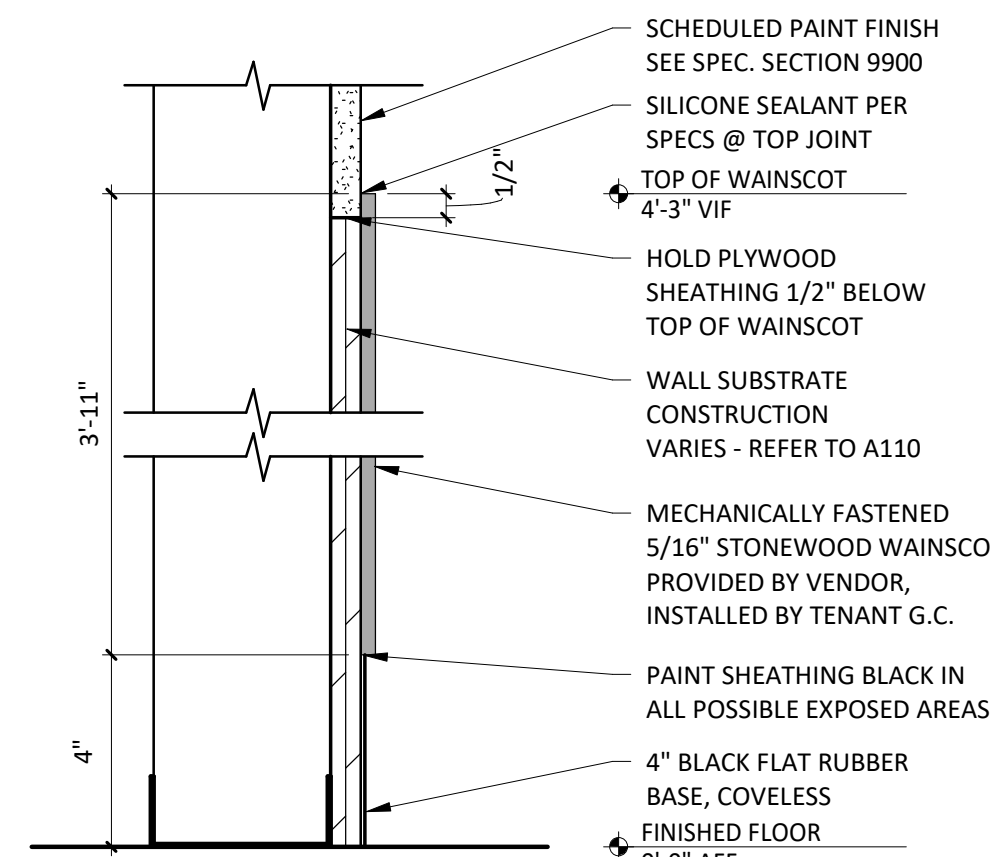
5 SECTION @ STONEWOOD
A801 3" = 1'-0"



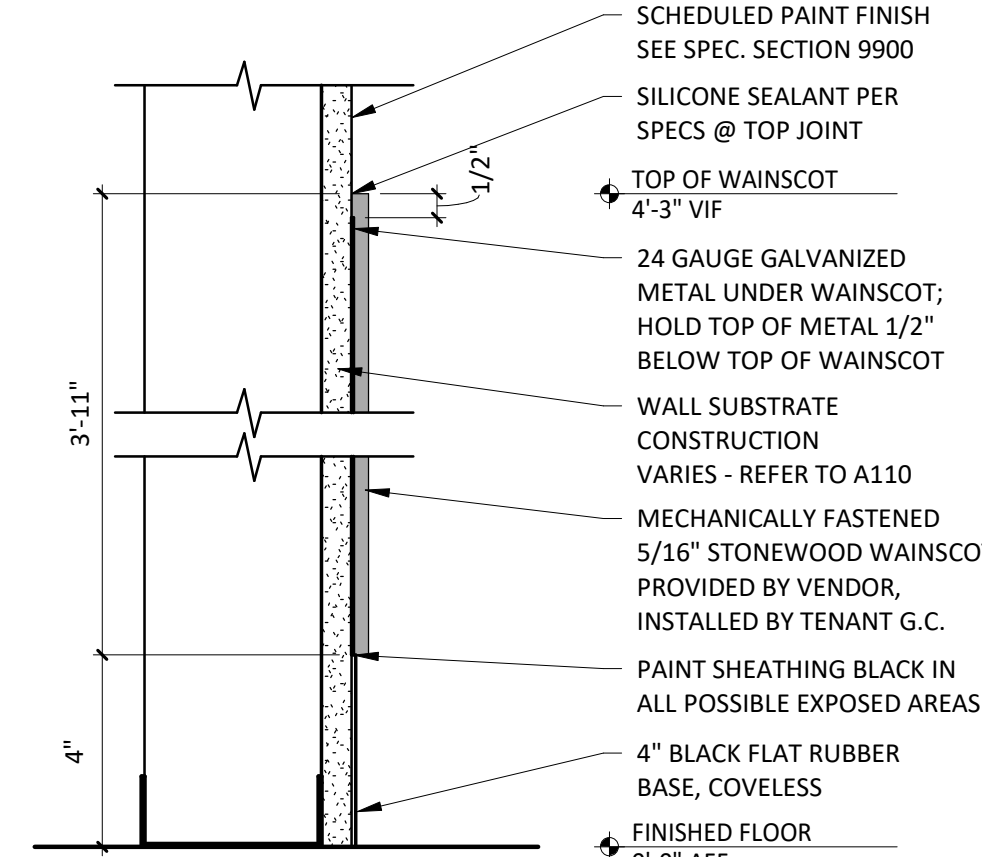
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A801

SECTION @ SPALTED MAPLE

3" = 1'-0"



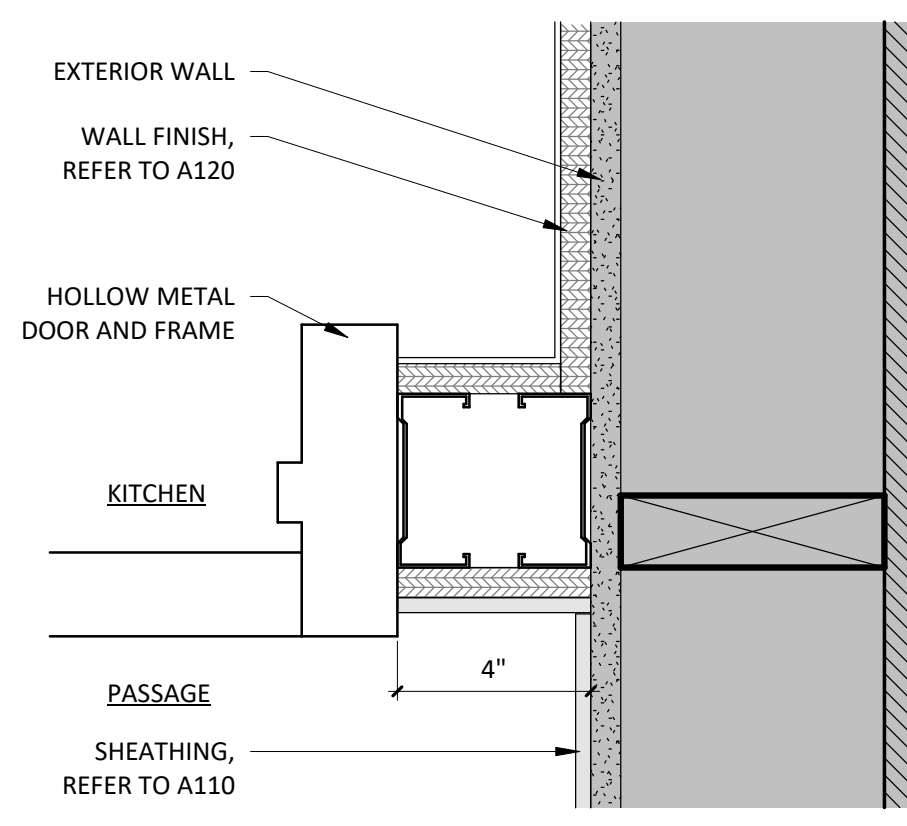
3
A801



2
A801

SECTION @ WAINSCOT

3" = 1'-0"



PLAN - DOOR JAMB
3" = 1'-0"

Consultant:

HBC

HOWELL BELANGER CASTELLI ARCHITECTS, PC
122 West 27th Street, 4th Floor
New York, New York 10001
tel: 212 - 647 - 0011
fax: 212 - 647 - 0022



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PERMIT SET
01/23/2024[illegible]

Drawn: M.T.W. Checked: J.C.C.

Project No.

21113

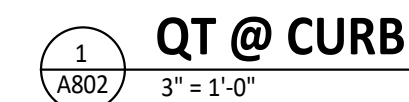
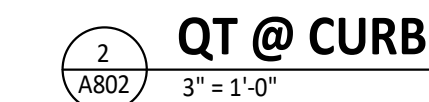
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FINISH DETAILS

A801

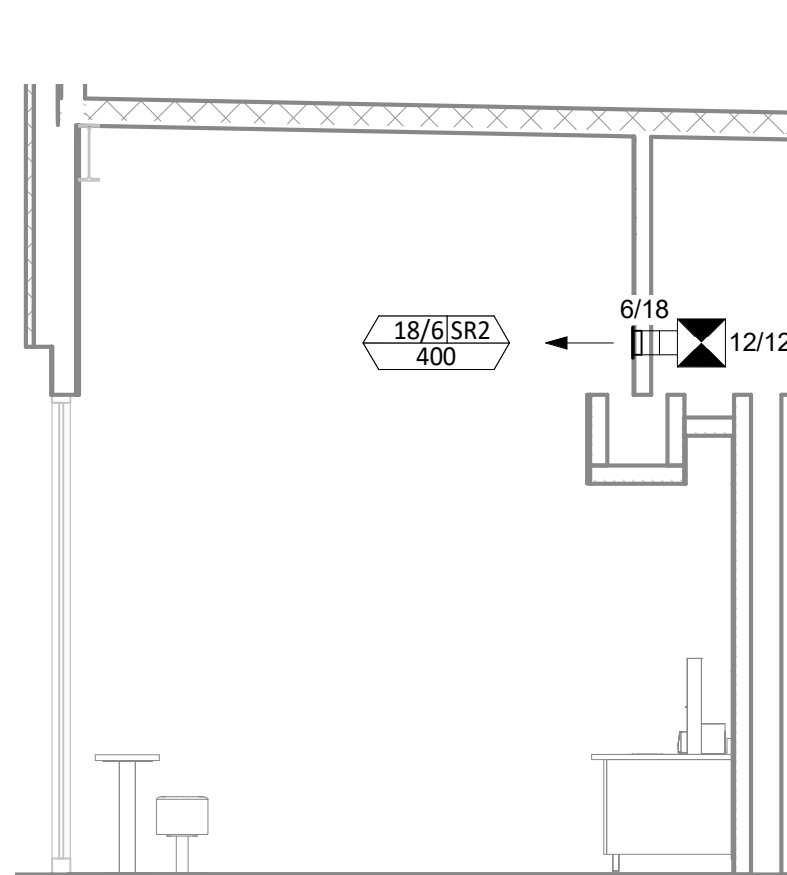
SHEET#: 33 OF 34

1. THE 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 OF CORRECTION. CONTRACTOR SHALL 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.

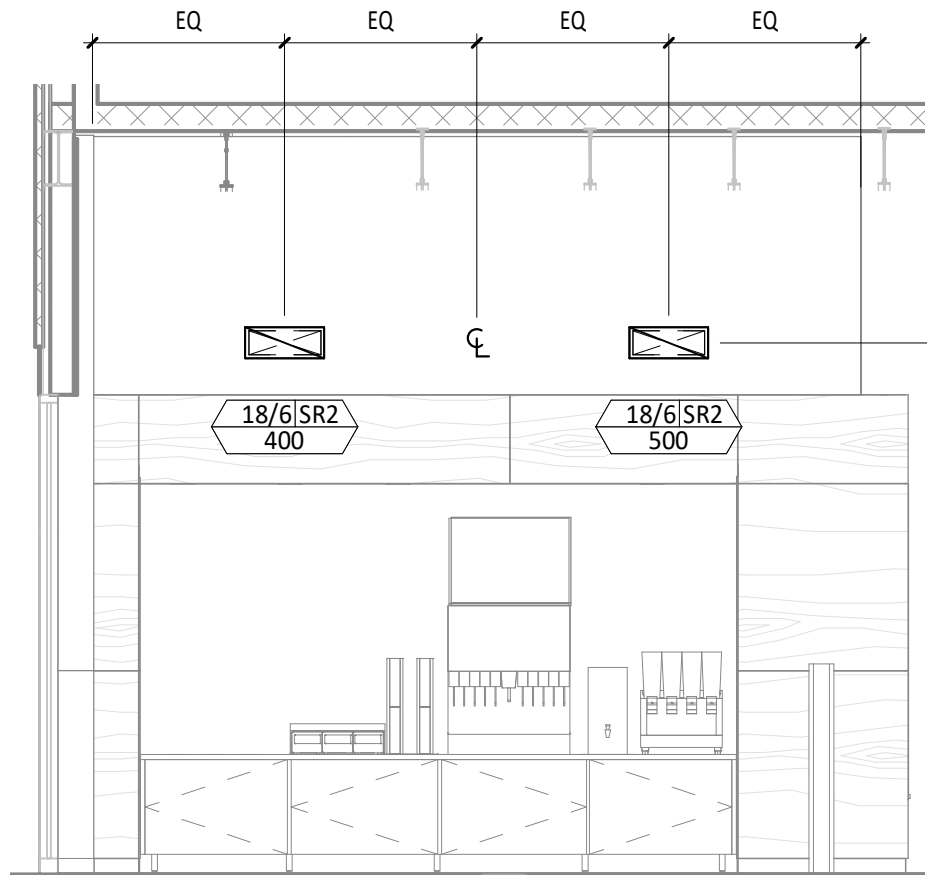


HVAC PLAN NOTES

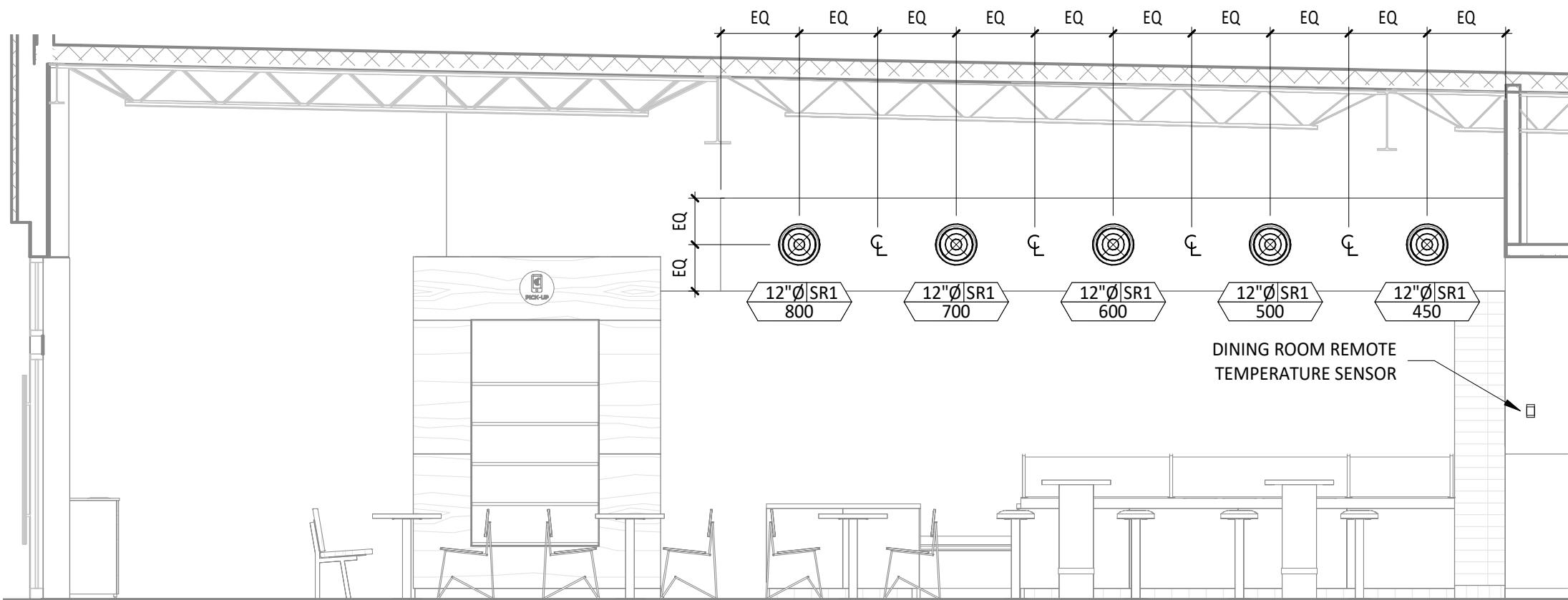
- SEE ARCHITECTURAL REFLECTED CEILING PLAN FOR CEILING MOUNTED EQUIPMENT LOCATION. TYPICAL.
- PAINT DUCTWORK VISIBLE THROUGH DINING ROOM SUPPLY REGISTERS AND RETURN GRILL BLACK. TYPICAL.
- ADJUST SUPPLY REGISTERS SO THAT SUPPLY AIR HITS WALL ON OPPOSITE SIDE OF ROOM AT APPROXIMATELY 7' AFF WITH NO DRAFTS FELT IN THE DINING ROOM.
- 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.
- 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.
- 26/16 DUCT UP FROM BUILDING SUPPLY THROUGH ROOF. TRANSITION TO RTU-1 SUPPLY CONNECTION IN ROOF CURB.
- 30/16 DUCT UP FROM BUILDING SUPPLY TO RTU-2 SUPPLY CONNECTION. TRANSITION IN ROOF CURB.
- 14/14 DUCT UP THROUGH ROOF. TRANSITION TO MAU-1 SUPPLY CONNECTION IN ROOF CURB.
- 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.
- 8/6 DUCT UP THROUGH ROOF TO EF-2.
- 28/6 DUCT DOWN TO MAKEUP AIR PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL FOR 3.
- 8" DIA. DUCT DOWN TO AC PSP DUCT CONNECTION. TRANSITION TO SUPPLY PLENUM OPENING SIZE. TYPICAL. CAP UNUSED DUCT CONNECTIONS.
- INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU-2 AT THIS LOCATION AT 48" AFF. COORDINATE WITH ELECTRICAL SWITCHING IN THIS AREA. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- INSTALL GRIDPOINT ZONE SENSOR MODULE FURNISHED BY TEMS FOR RTU-1 AT THIS LOCATION 60" AFF DIRECTLY TO WALL (NO JUNCTION BOX). COORDINATE LOCATION WITH EQUIPMENT. PROVIDE WIRING AS SHOWN IN DETAIL 8/E710.
- 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.
- 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.
- 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.
- INSTALL REMOTE TEMPERATURE SENSOR FOR HOOD HD-1 AT THIS LOCATION 60" AFF. COORDINATE LOCATION WITH EQUIPMENT. PROVIDE (2) #18 G. THERMISTOR CABLE FROM TEMPERATURE SENSOR TO HOOD CONTROL PANEL.



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



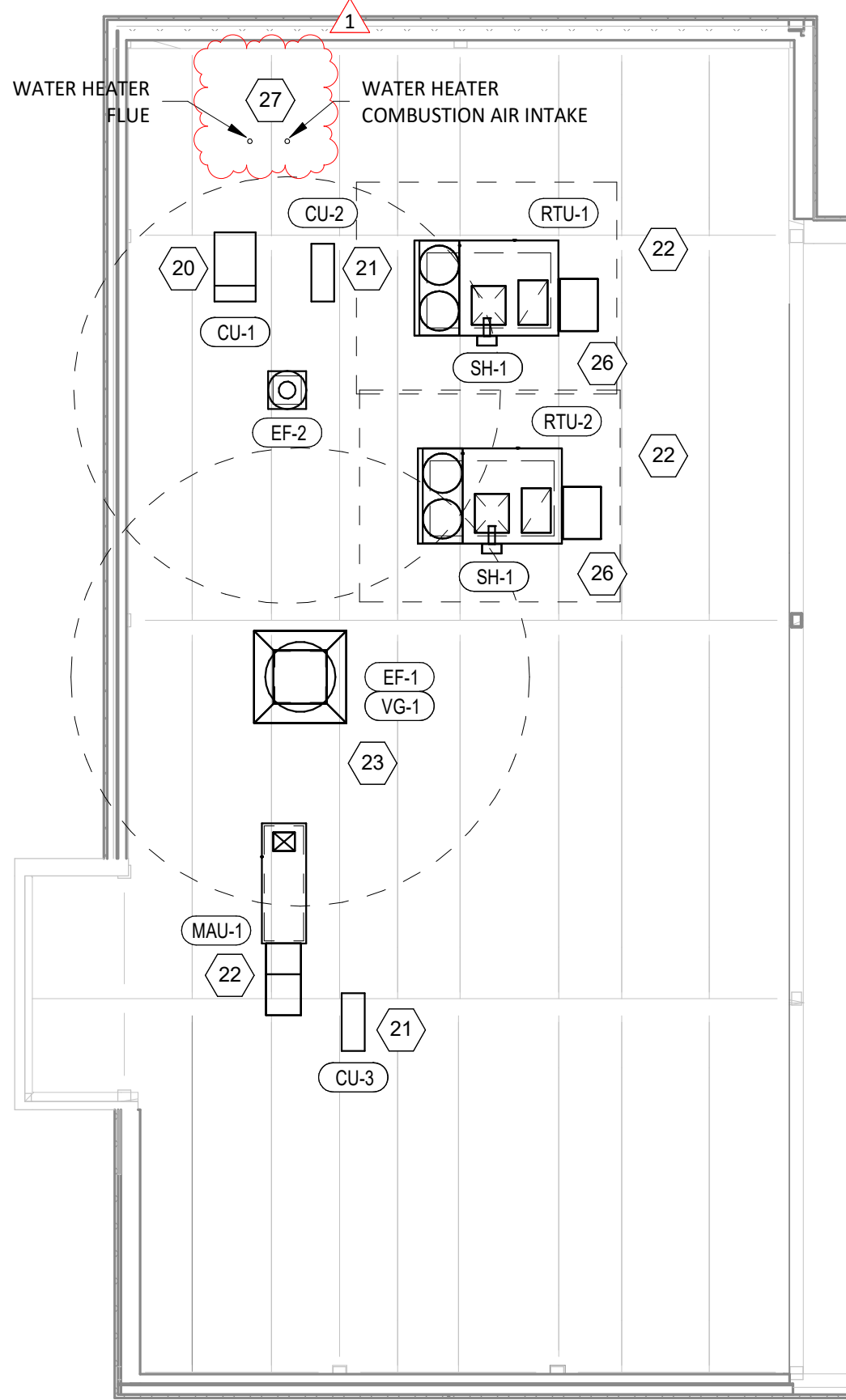
4 M100 HVAC DINING ROOM SECTION
1/4" = 1'-0"



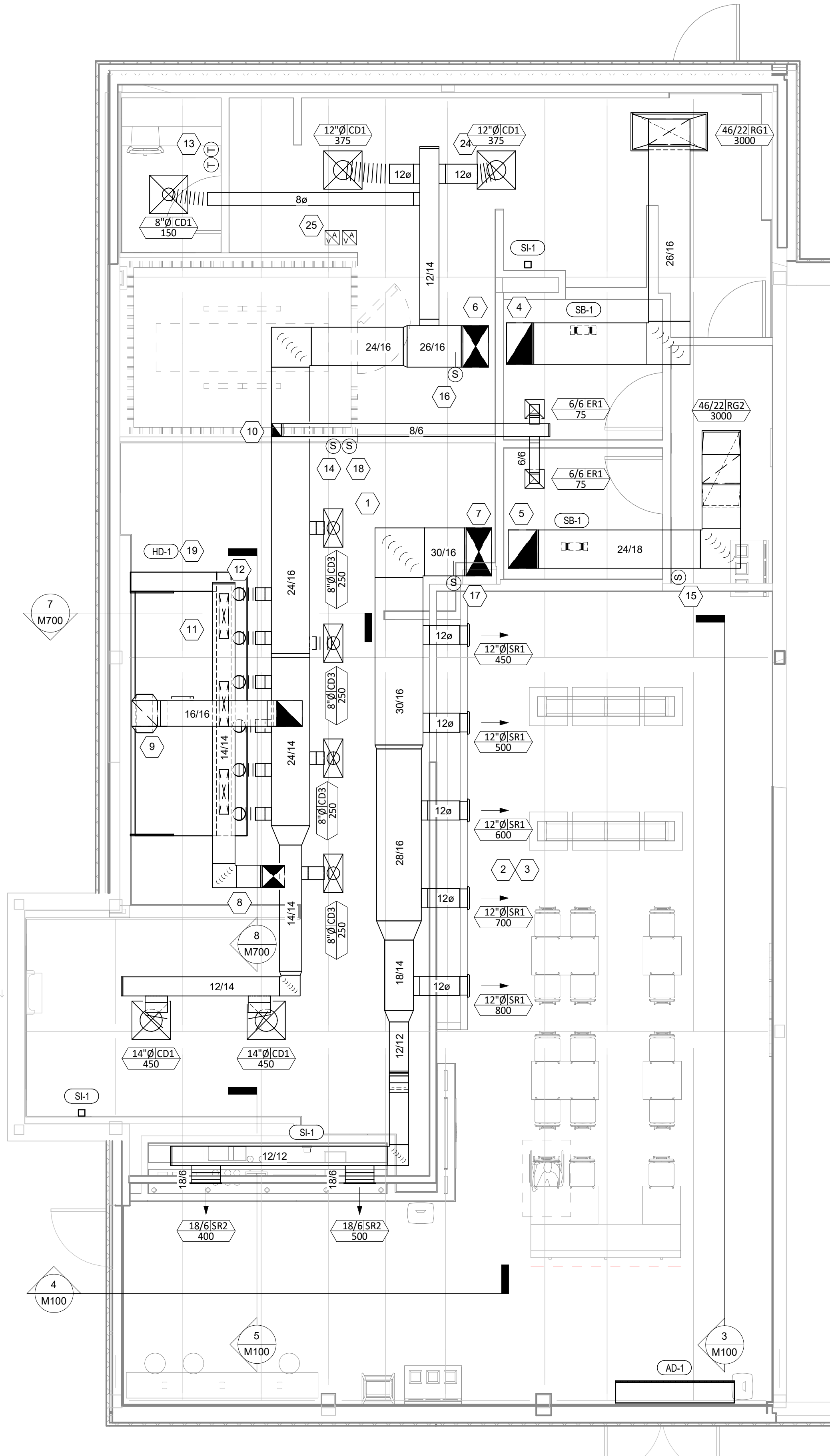
3 M100 HVAC DINING ROOM SECTION
1/4" = 1'-0"

HVAC PLAN NOTES

- 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.
- 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.
- 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.
- INSTALL ROOFTOP EQUIPMENT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS AND AS DETAILED IN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS.
- 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.
- PROVIDE SUPPLY DIFFUSER CONNECTION TO SUPPLY SYSTEM PER DETAIL 1/M700. TYPICAL.
- 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.
- 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.
- 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.

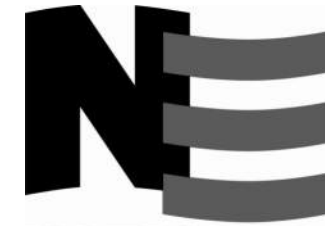


2 M100 HVAC ROOF PLAN
1/8" = 1'-0"



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

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ISLANDIA, NY 11749

PERMIT SET
01/23/2024

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01/10/2024 PERMIT SET

Revisions:
1 01/22/24 WATER HEATER REVISION

Drawn: CJK
Checked: JEJ

Project No.
2201014

Contents:

HVAC PLAN

M100

AIR DOOR SCHEDULE

TAG	OPENING WIDTH	AIRFLOW			ELECTRICAL			FURNISHED	INSTALLED	BASIS FOR DESIGN		REMARKS
		MAX FPM	AVG FPM	CFM	MOCP	FLA	V/P/H	BY	BY	MANUFACTURER	MODEL	
AD-1	72"	3600	2058	2072	60 A	43.3 A	208/3/60	GC	GC	BERNER	ALC08-1072E	

SANITIZING EQUIPMENT SCHEDULE

TAG	COUNT	DESCRIPTION	FURNISH ED BY	INSTALLE D 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.

GRILLS, REGISTERS, AND DIFFUSERS 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 INTEGRAL OBD
CD3	PERFORATED CEILING DIFFUSER	24" X 12"	ALUMINUM	WHITE	LAY-IN CEILING	GC	GC	NAILOR	4320A TYPE L	PROVIDE INTEGRAL OBD, REMOVE 4-WAY DEFLECTOR
ER1	PERFORATED CEILING EXHAUST	12" X 12"	ALUMINUM	WHITE	GYP CEILING	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	GYP CEILING	GC	GC	NAILOR	4330R TYPE S	
SR1	ADJUSTABLE TURBO NOZZLE	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	AIR CONCEPTS	ANR-12	PROVIDE FACE-ACCESSIBLE OBD
SR2	DOUBLE DEFLECTION SUPPLY REGISTER	SEE NECK SIZE	ALUMINUM	WHITE	WALL	GC	GC	NAILOR	51DH	PROVIDE INTEGRAL OBD

VIROGUARD SCHEDULE

TAG	QUANITY	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

FAN SCHEDULE

TAG	DRIVE TYPE	EXHAUST FLOW [CFM]	E.S.P. [in W.C.]	WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
					MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
EF-1	DIRECT	2550 CFM	1.20 in-wg	400	2	208/3/60	HS	GC	CAPTIVE-AIRE	DU180HFA	FURNISHED WITH DISCONNECT AND VENTED ROOF CURB
EF-2	DIRECT	150 CFM	0.60 in-wg	100	0.18 HP	120/1/60	HS	GC	CAPTIVE-AIRE	DR12HFA	FURNISHED WITH DISCONNECT, VARIABLE SPEED CONTROLLER, BACKDRAFT DAMPER AND ROOF CURB

MAKEUP AIR UNIT SCHEDULE

TAG	DESCRIPTION	AIRFLOW		HEATING CAPACTIY				APPROXIMATE WEIGHT [lbs]	ELECTRICAL		FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
		SUPPLY FLOW [CFM]	E.S.P. [in. W.C.]	INPUT [MBH]	OUTPUT [MBH]	MAXIMUM TURNDOWN	EAT		MOTOR POWER	V/P/H			MANUFACTURER	MODEL	
MAU-1	MAKEUP AIR UNIT	1300	0.80	225	220	12.5:1	12 °F	650	1 HP	208/3/60	HS	GC	CAPTIVE-AIRE	A1-D.250-15D	FURNISHED WITH DISCONNECT, ROOF CURB, SCREEN INTAKE, AND WASHABLE ALUMINUM FILTERS

CONDENSING UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	NUMBER OF COMPRESSORS	NUMBER OF CIRCUITS	REFRIGERANT TYPE	REFRIGERANT CHARGE	WEIGHT	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
								MOCP	FLA	V/P/H			MANUFACTURER	MODEL	
CU-1	WALK-IN COOLER REMOTE CONDENSING UNIT	--	1	1	R-404A		200	15 A	6.5 A	208/3/60	WCS	GC	HARFORD	PCL99MOP-3	FURNISHED WITH WALK-IN COOLER
CU-2	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER
CU-3	ICE MAKER - REMOTE CONDENSER	--	0	1	R-404A	11 lbs 7.4 oz	100			120/1/60	KES	GC	-	-	FURNISHED WITH ICE MAKER

KITCHEN HOOD SCHEDULE

TAG	DESCRIPTION	MAX COOKING TEMP.	EXHAUST PLENUM							PERFORATED SUPPLY PLENUMS										NUMBER OF LIGHT FIXTURES	APPROXIMATE WEIGHT [lbs]	FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS
			AIRFLOW [CFM]	SP [in. W.C.]	DUCT COLLARS			LENGTH	WIDTH	SP [in. W.C.]	SUPPLY PLENUM LENGTH	SUPPLY PLENUM WIDTH	MAU PLENUM			AC PLENUM		MANUFACTURER	MODEL							
					NO.	WIDTH	LENGTH						AIRFLOW [CFM]	DUCT COLLARS		AIRFLOW [CFM]	DUCT COLLARS									
														NO.	WIDTH		LENGTH							NO.	DIAMETER	
HD-1	TYPE I CANOPY HOOD WITH PERFORATED MAU AND AC SUPPLY PLENUMS	600°F	2550	0.97	1	10"	24"	12' - 9"	4' - 3"	0.1	13' - 9"	19"	1300	3	6"	28"	700	6	8"	8	1100	HS	GC	CAPTIVE-AIRE	5424 ND-2-ACPS-P	MAT'L: 18 GA. TYPE 430 SS. PROVIDE WITH VERTICAL END PANELS, 16" TALL HE SS FILTERS, INTEGRAL UTILITY CABINET, ANSUL SYSTEM, DUCT COLLAR TEMPERATURE SENSOR, PREWIRE PACKAGE, SPARE FIRE SYSTEM DRY CONTACT, AND 4-POLE 20A CONTACTOR

ROOFTOP UNIT SCHEDULE

TAG	DESCRIPTION	NOMINAL CAPACITY [TONS]	EER	AIRFLOW			NET COOLING CAPACITY				HEATING CAPACITY			# OF COMPRESSORS	# OF CIRCUITS	REFRIG. TYPE	REFRIG. CHARGE	APPROX. WEIGHT [lbs]	ELECTRICAL			FURNISHED BY	INSTALLED BY	BASIS FOR DESIGN		REMARKS	
				TOTAL [CFM]	OA [CFM]	ESP [IN. W.C.]	TOTAL [MBH]	SENSIBLE [MBH]	EAT [DEG. F] DB	WB	COND. EAT [DEG. F]	INPUT [MBH]	OUTPUT [MBH]						EAT [DEG. F]	MOCP	FLA			V/P/H	MANUFACTURER		MODEL
RTU-1	KITCHEN ROOFTOP UNIT	10	12	3500	500	0.8	116	74	76	66	93	180	146	59	2	2	R-410A	7.9/7.9	1350	50 A	44.9 A	208/3/60	HES	GC	YORK	ZJ120	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE
RTU-2	DINING ROOM ROOFTOP UNIT	10	12	4000	1000	0.8	125	69	77	69	93	180	146	54	2	2	R-410A	7.9/7.9	1350	50 A	44.9 A	208/3/60	HES	GC	YORK	ZJ120	FURNISHED WITH COMP. ENTHALPY ECON., BAROMETRIC RELIEF, RET. SMOKE DETECTOR W/ REMOTE KEYED ANNUNCIATOR/RESET, M.O.D., MERV-8 FILTERS, CURB, HAIL GUARD, TOOLLESS HINGED ACCESS PANELS, DISCONNECT, & UNIT-MOUNTED CONVENIENCE RECEPTACLE

CONTROL FUNCTIONS

- A. THE MAIN COOKING EXHAUST FAN AND MAKE-UP AIR UNIT SHALL BE INTERLOCKED TO OPERATE TOGETHER. THIS CONTROL CIRCUIT IS ACTIVATED BY A SWITCH AND INCLUDES A FIRE PROTECTION OVERRIDE.
- B. THE TEMPERATURE IN EACH ZONE IS CONTROLLED BY SPACE TEMPERATURE SENSORS CONNECTED TO THE THERMOSTATS LOCATED IN THE OFFICE. ALL ZONES SHALL OPERATE WITH CONTINUOUS FAN OPERATION DURING OCCUPIED TIMES AND INTERMITTENTLY AS NEEDED TO MAINTAIN SET POINTS DURING UNOCCUPIED TIMES. OUTSIDE AIR DAMPERS SHALL BE OPEN CONTINUOUSLY WHEN EITHER IN OCCUPIED MODE OR WHEN THE HOOD SYSTEM IS ON AND SHALL BE CLOSED DURING UNOCCUPIED PERIODS.
- C. THE THERMOSTATS SHALL DETERMINE OCCUPIED/UNOCCUPIED STATUS BASED ON THE SCHEDULE IN THE ENERGY MANAGEMENT SYSTEM.

AIR BALANCE SCHEDULE

Tag	Supply Flow [CFM]	Return Flow [CFM]	Exhaust Flow [CFM]	Subtotal [CFM]
EF-1	0	0	2550	-2550
EF-2	0	0	150	-150
MAU-1	1300	0	0	1300
RTU-1	3500	3000	0	500
RTU-2	4000	3000	0	1000
Net Pressurization [CFM]				100

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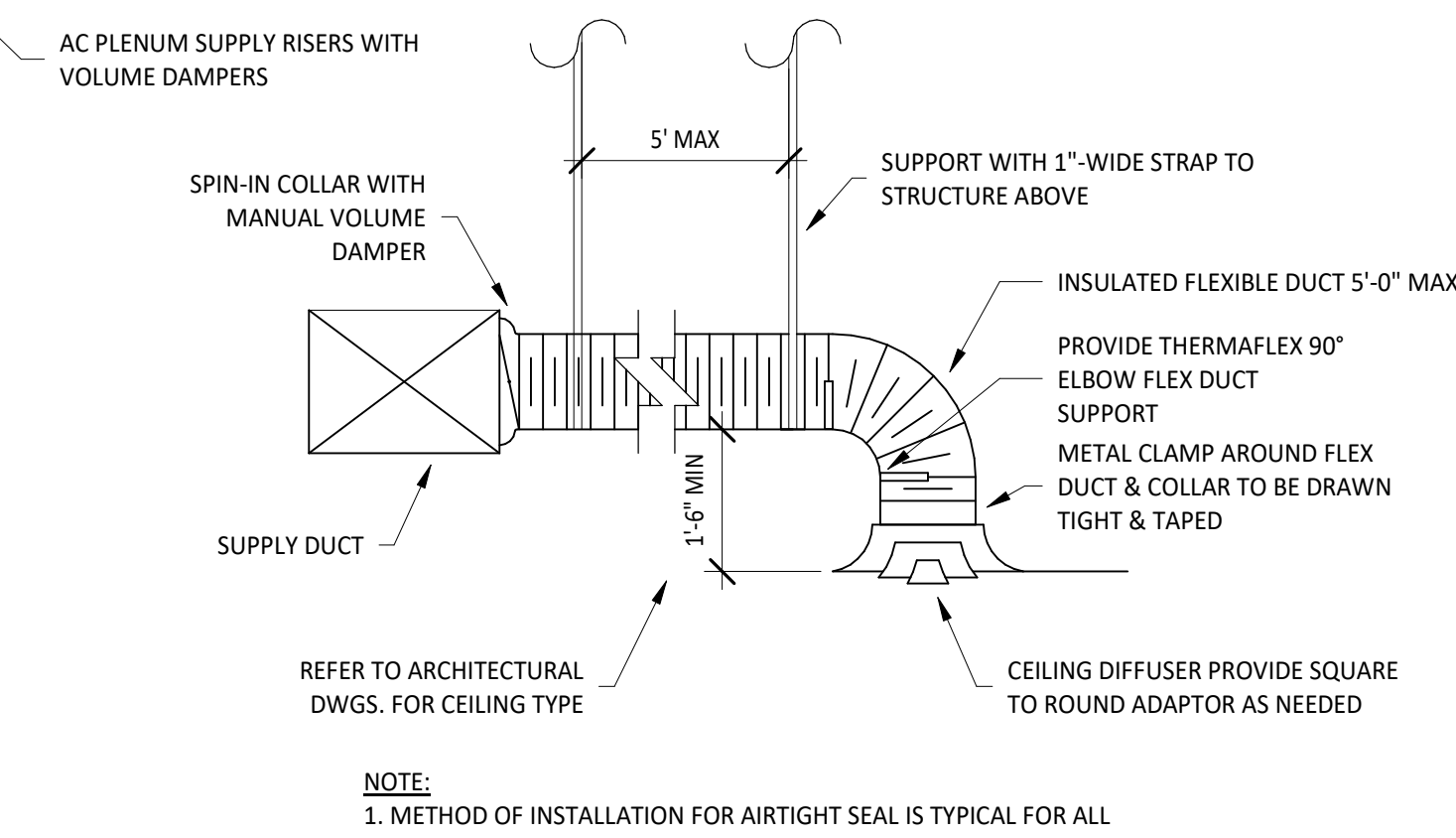
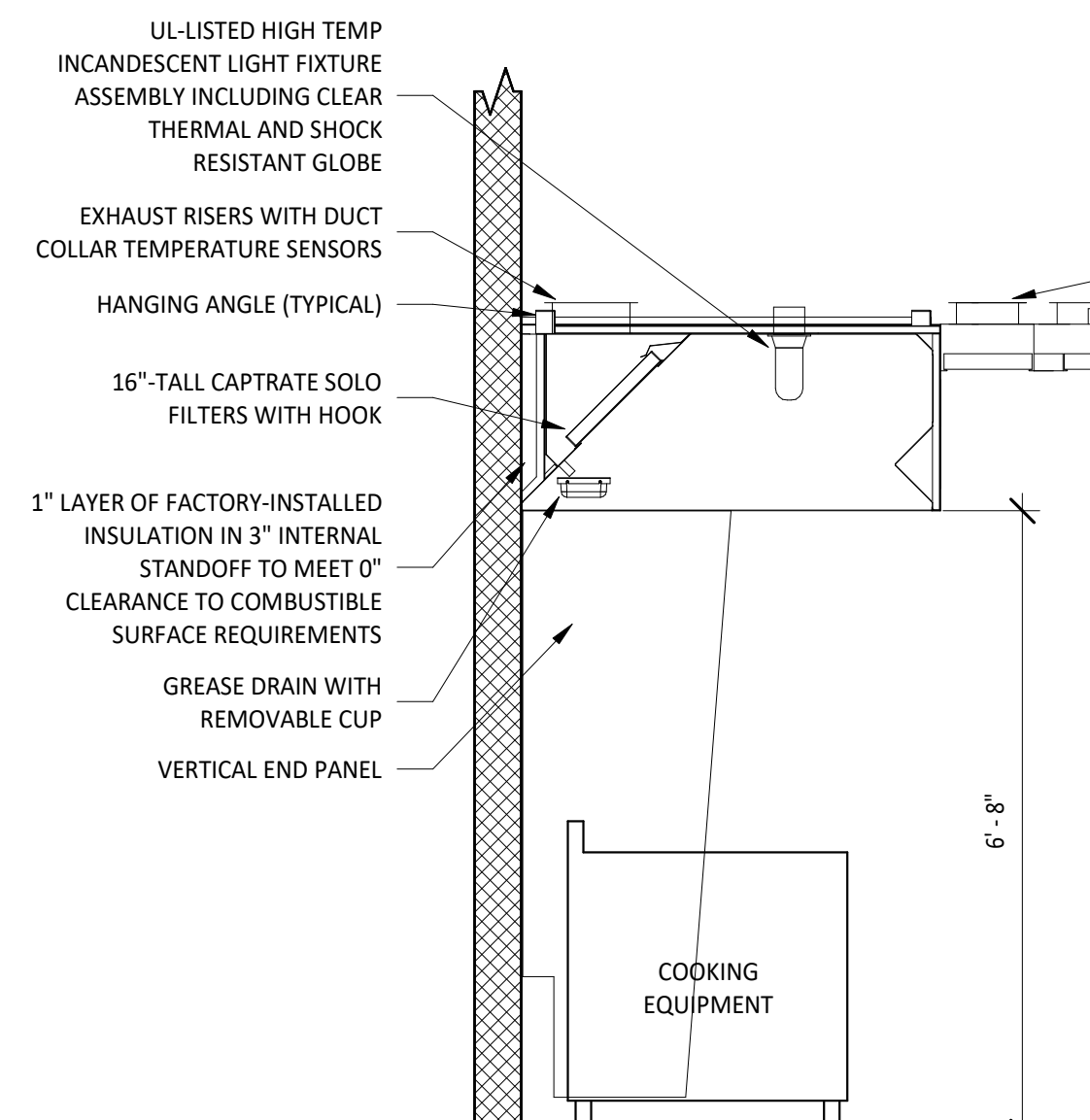
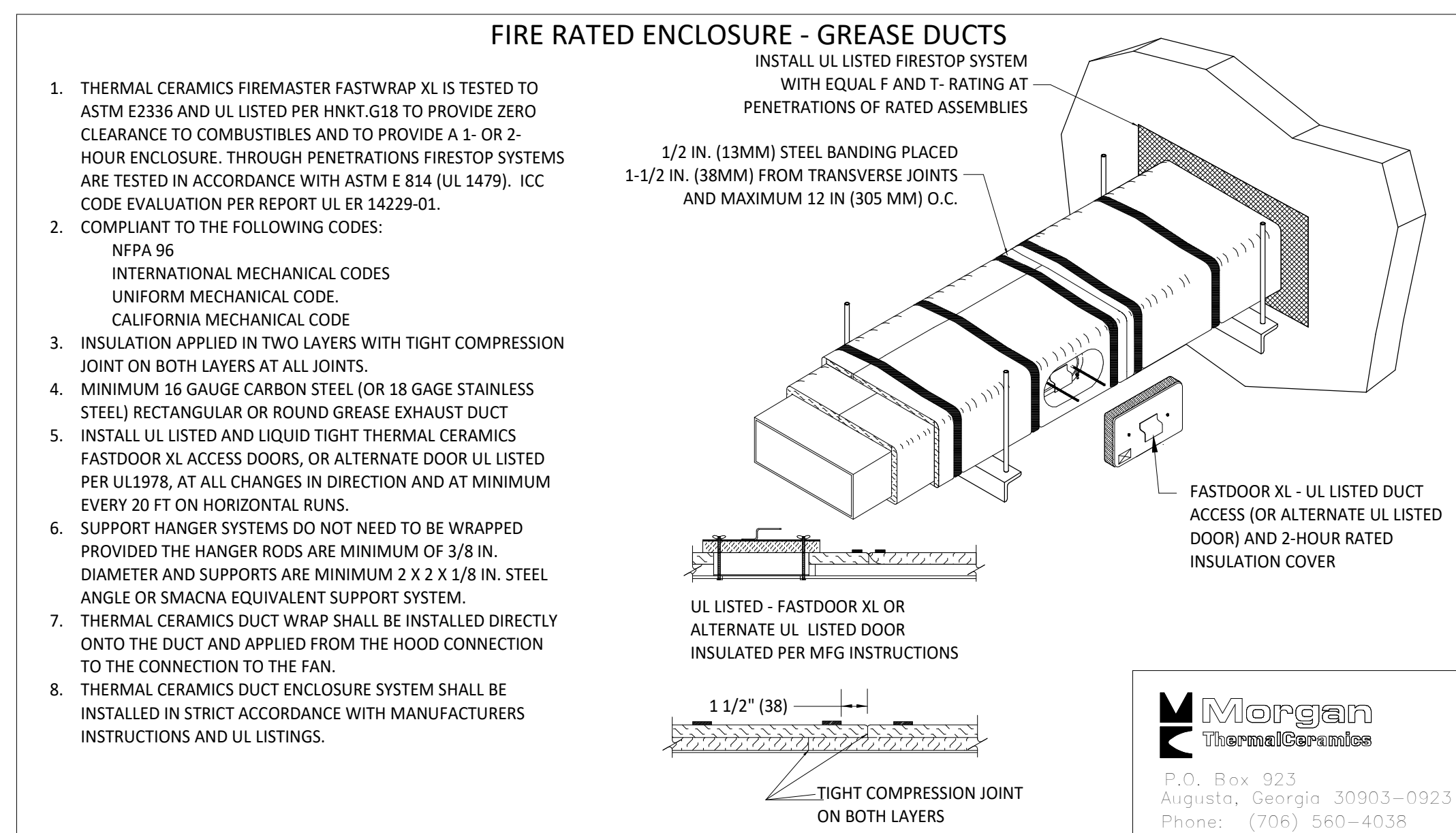
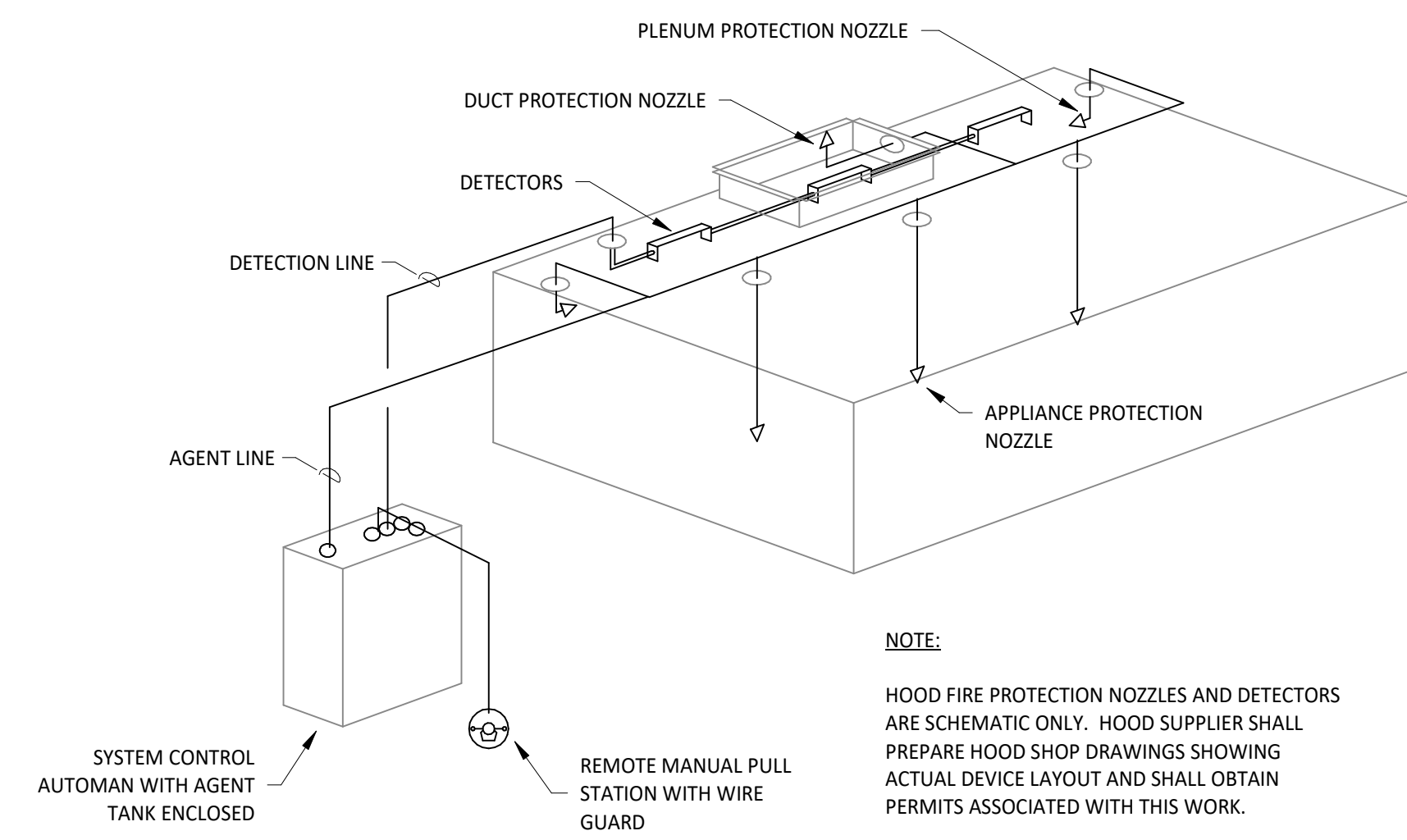
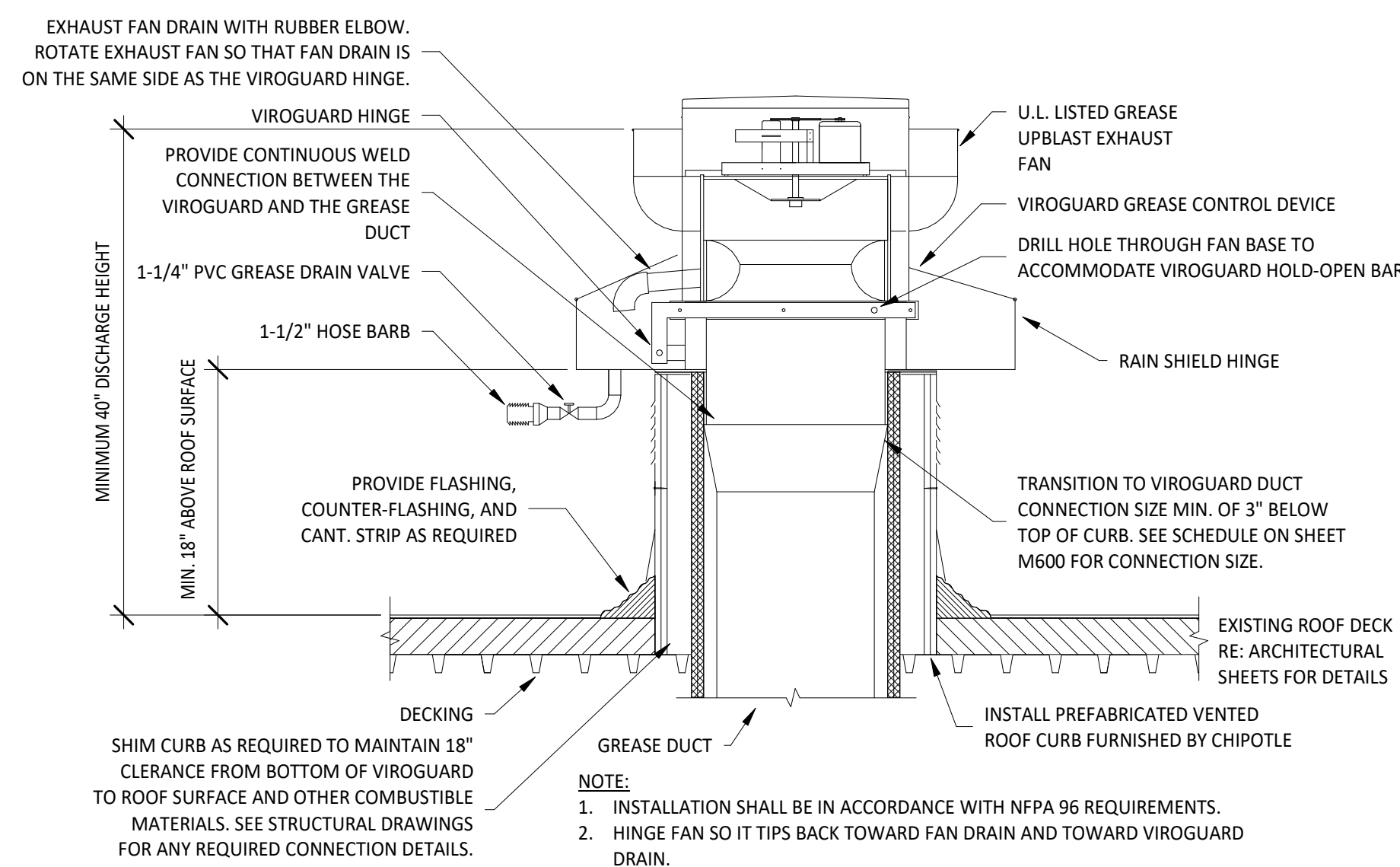
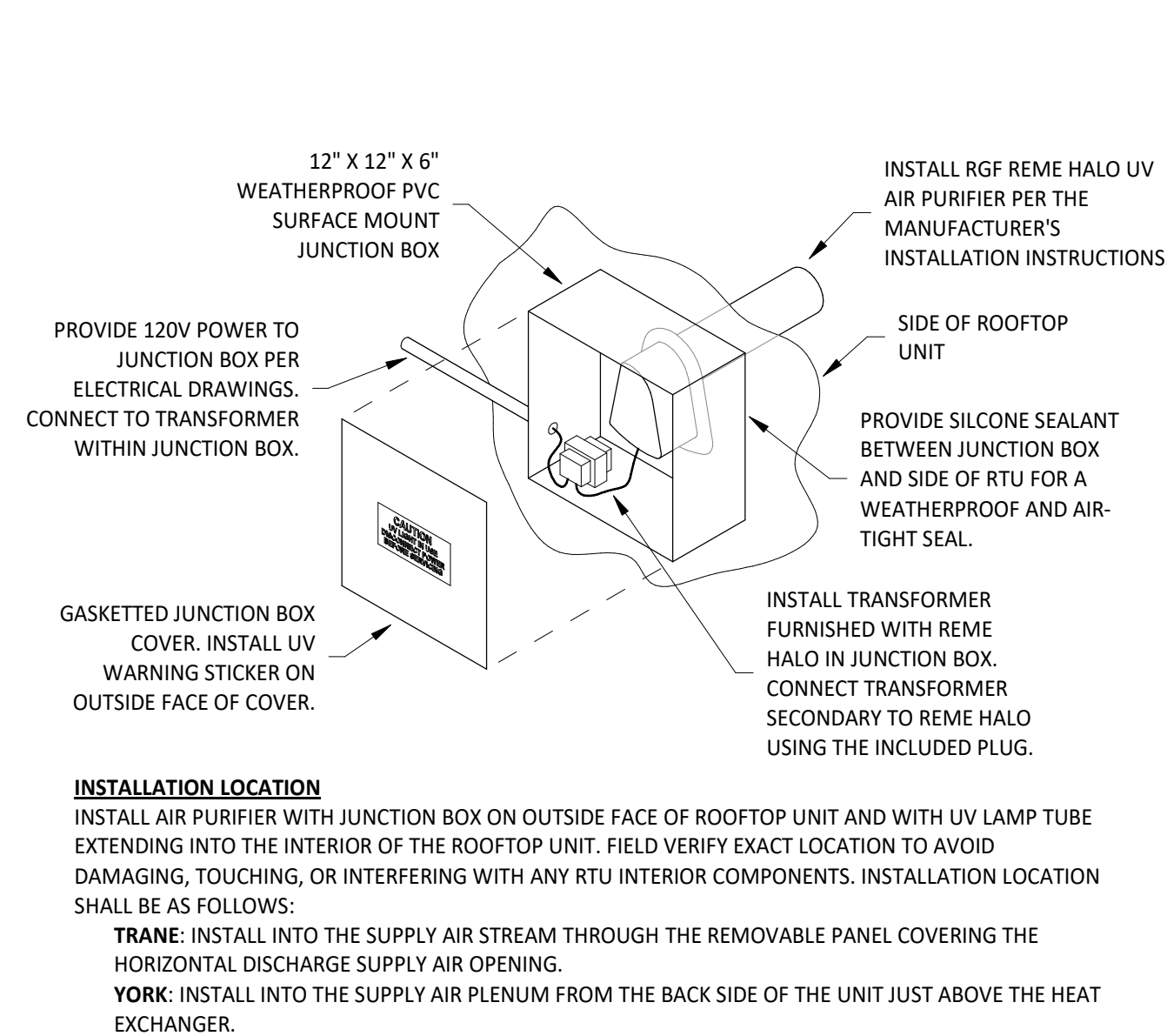
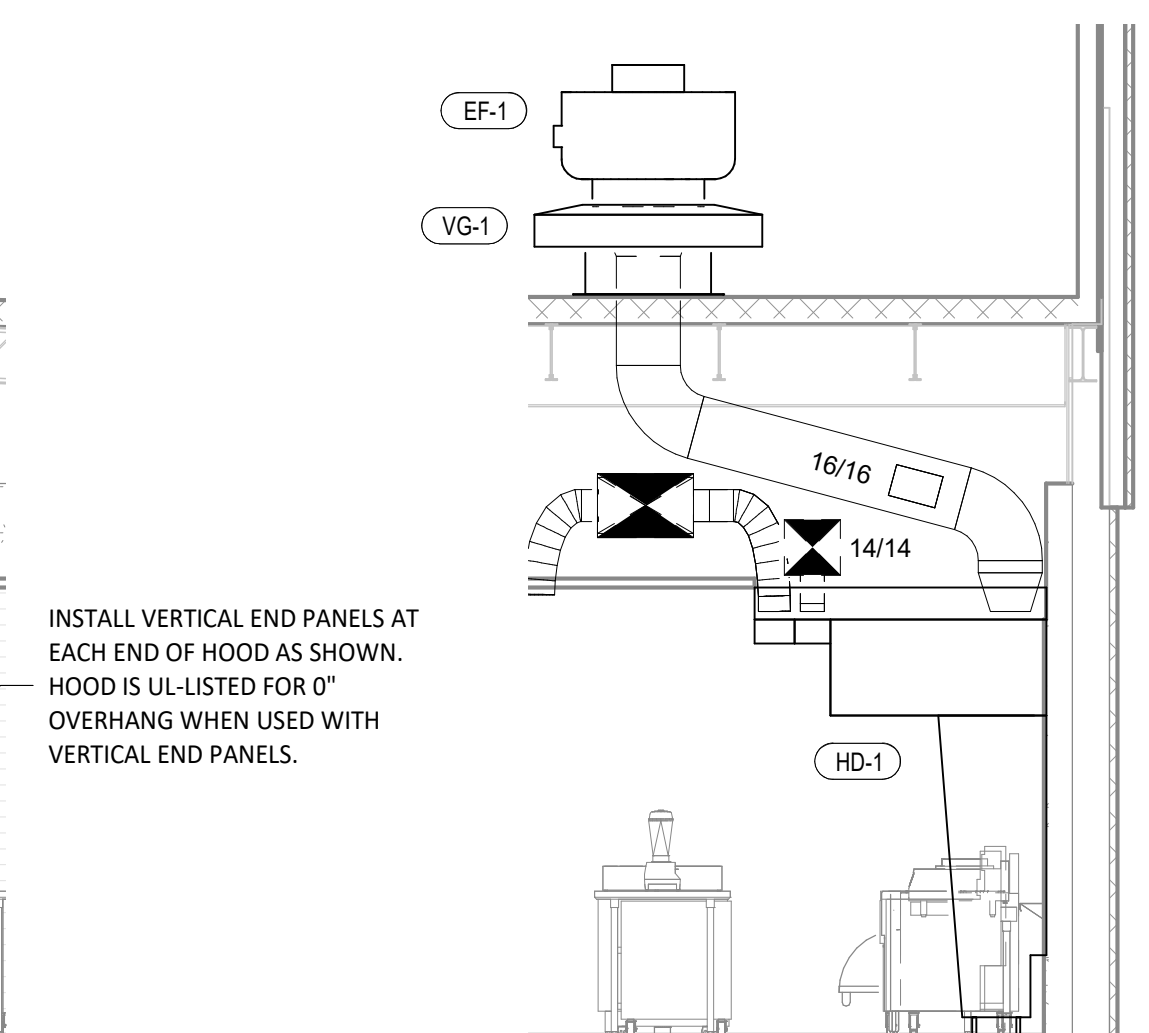
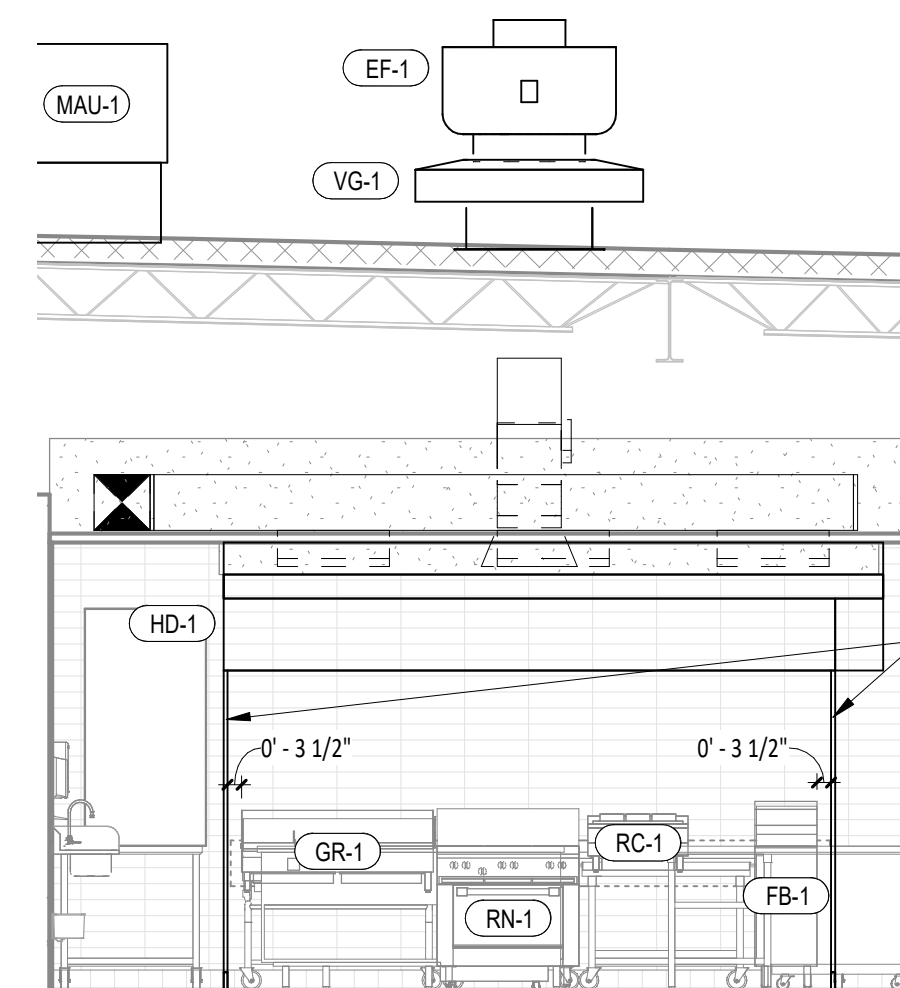
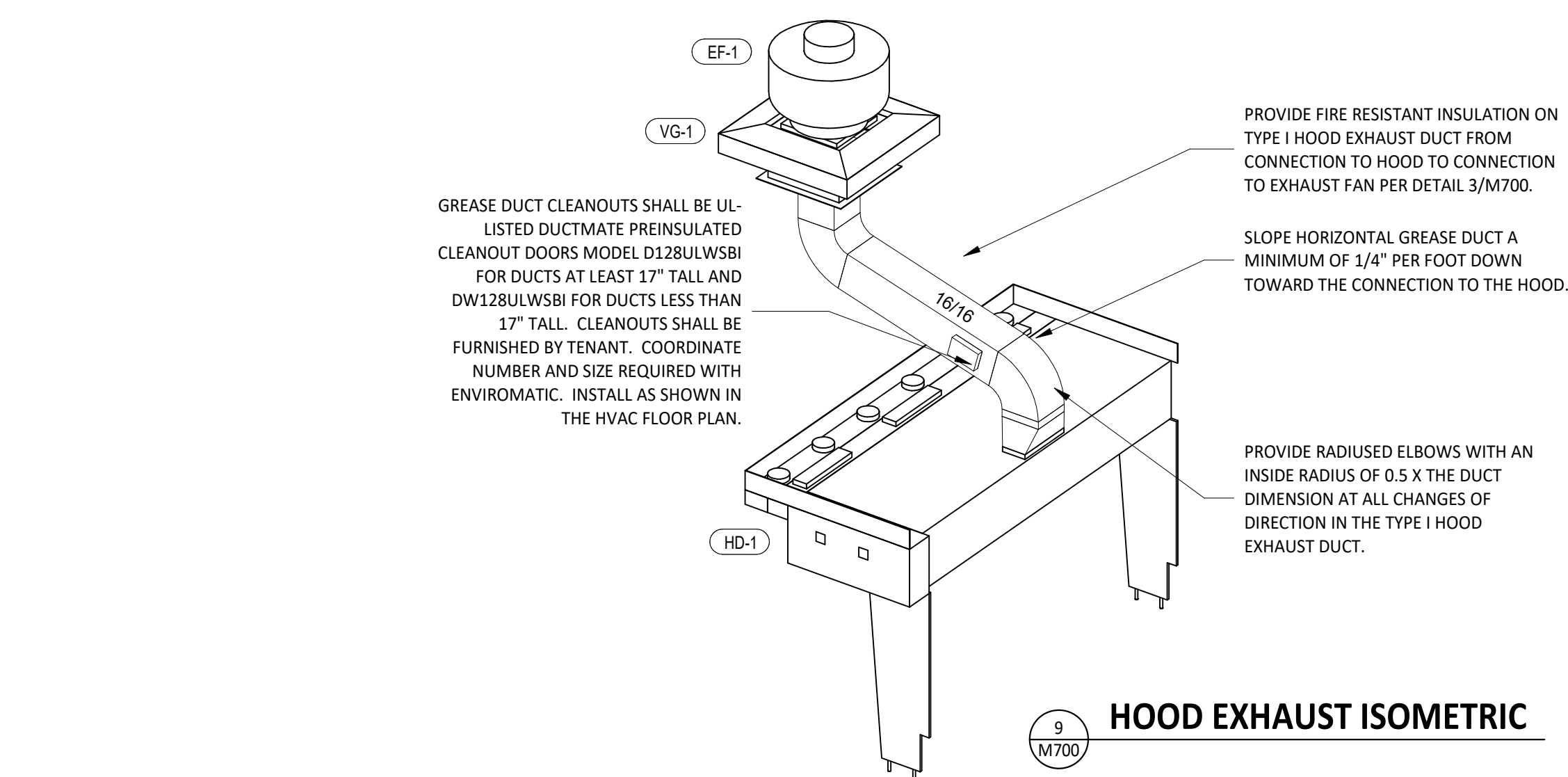
Drawn: CJK
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Project No.
2201014

Contents:

HVAC SCHEDULES

M600



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01/23/2024

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Project No.
2201014

Contents:

HVAC DETAILS

M700

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: Label 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.
- 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. Copper and Copper Alloy Press-Connect Pressure Fittings: Copper Press Fittings: ASME B16.51
- 2.3 JOINING MATERIALS
- A. Solder Filler Metal: ASTM B 32, lead free.
- B. Brazing Filler Metals: AWS AS 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.
- 2.2 FITTINGS
- B. Fittings:
- a. Malleable Iron Threaded Fittings: ASME B16.3, Class 150.
 - b. Cold Press Mechanical Joint Fitting System: Viega MegaPress
- C. Manual Valves: Comply with standards listed or, if appropriate, to ANSI Z21.15.
- D. Gas Slops: 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 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.
- H. WHERE THE WATER OR GAS SUPPLY LINE SIZE SHOWN IN THE PLUMBING DIAGRAMS DIFFERS FROM THE FIXTURE OR EQUIPMENT CONNECTION SIZE, PROVIDE LINE SIZE PIPE TO WITHIN 6" OF THE FIXTURE OR EQUIPMENT BEFORE TRANSITIONING TO THE CONNECTION SIZE.
- I. PIPING IN EXTERIOR WALLS SHALL BE INSTALLED BETWEEN THE INSULATION AND THE INTERIOR WALL FINISHING MATERIAL.
- J. INSULATE THE HOT AND COLD WATER, CONDENSATE DRAINAGE, AND STORM PIPING PER THE SPECIFICATIONS AND DETAIL 8/P700.
- K. PROVIDE GAS SHUT-OFF VALVES AT EACH PIECE OF EQUIPMENT. PROVIDE ACCESSIBLE DIRT LEG AT THE BOTTOM OF VERTICAL SECTIONS OF GAS PIPE AND AT THE CONNECTION TO EACH PIECE OF EQUIPMENT.
- L. PLUMBING FIXTURES, ACCESSORIES, AND MATERIALS PROVIDED FOR DOMESTIC WATER SHALL BE LEAD FREE.
- M. PRIOR TO TURNOVER PERFORM A VIDEO INSPECTION OF THE SANITARY AND GREASE LINES FROM THE MAIN LINES WITHIN THE TENANT SPACE TO THE MAIN SEWER TO VERIFY THAT THE SANITARY WASTE SYSTEM IS CONNECTED, CLEAN, AND FREE OF SAGS, BELLIES, BREAKS, AND DEBRIS. DELIVER A REPORT AND COPY OF THE VIDEO TO THE TENANT'S CONSTRUCTION MANAGER PRIOR TO TURNOVER.
- N. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- O. PRIOR TO CONNECTION TO ANY EXISTING SEWER SYSTEM PERFORM A DIE TEST TO VERIFY THE TYPE OF SYSTEM AND THE DIRECTION OF FLOW. REPORT ANY DEVIATION FROM THE CONSTRUCTION DOCUMENTS TO THE TENANT'S CONSTRUCTION MANAGER.
- P. PROVIDE SANITARY AND GREASE WASTE PIPES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS NOTED OTHERWISE.

PLUMBING 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

PLUMBING ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(E)	EXISTING
EXT'G	EXISTING
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FS	FLOOR SINK
GCO	GRADE CLEANOUT

CO2AS	TENANT'S CO2 ALARM SUPPLIER
GC	GENERAL CONTRACTOR
HES	TENANT'S HVAC EQUIPMENT SUPPLIER
HS	TENANT'S HOOD SUPPLIER
KES	TENANT'S KITCHEN EQUIPMENT SUPPLIER
TAB	TENANT'S TEST AND BALANCE VENDOR
TCC	TENANT'S CABLING CONTRACTOR
TDC	TENANT'S DUCT CLEANER
TEMS	TENANT'S ENERGY MANAGEMENT SYSTEM SUPPLIER
TLS	TENANT'S LIGHT/LAMP SUPPLIER
TMB	TENANT'S MENU BOARD SUPPLIER
TMS	TENANT'S MILLWORK SUPPLIER
TP	TENANT'S PHONE SUPPLIER
TPS	TENANT'S PANELBOARD SUPPLIER
TRS	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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

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Contents:

PLUMBING SPECIFICATIONS

P010

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 WMSOF 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	FIXTURE	CONNECTION SIZES		ROUGH-IN TYPE	FIXTURE UNITS (EACH)			COUNT	FIXTURE UNITS (TOTAL)		
		CW	HW		CW	HW	TOTAL		CW	HW	TOTAL
BFP-1	RPZ BACKFLOW PREVENTER	1/2"		DIRECT	1		1	1	1		1
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)		3/4"	ANGLE 3/4"	0	1	1	1	0	1	1
ET-1	EXPANSION TANK	3/4"		DIRECT	0	0	0	1	0	0	0
HB-1	HOSE BIBB	1/2"	1/2"	MIP	1.5	1.5	2	1	1.5	1.5	4
HB-2	HOSE BIBB	1/2"		MIP	1.5	0	1.5	1	1.5	0	1.5
HS-1B	RESTROOM HAND SINK FAUCET	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	1	1.5	1.5	4
HS-2	KITCHEN HAND SINK	1/2"	1/2"	ANGLE 3/8"	1.5	1.5	2	1	1.5	1.5	8
IM-1	ICE MAKER - BOH	1/2"		HOSE 1/2"	1	0	1	1	1	0	1
IM-2	ICE MAKER - SODA	1/2"		HOSE 1/2"	1		1	1	1		2
MB-1B	MOP BASIN FAUCET	1/2"	1/2"	MIP	2.25	2.25	3	1	2.25	2.25	3
P-1	RECIRCULATING PUMP	1/2"		DIRECT			0	1			0
PF-1	POT FILLER	1/2"		MIP	1.5	0	1.5	1	1.5	0	1.5
RH-1	FREEZE PROOF ROOF HYDRANT	3/4"		DIRECT	1	0	1	1	1	0	1
SK-1	THREE COMPARTMENT SINK	1/2"	1/2"	ANGLE 1/2"	4	4	4	1	4	4	4
SK-2	PREP SINK	3/4"	3/4"	ANGLE 3/4"	3	3	4	1	3	3	4
WC-1	WATER CLOSET	1/2"		ANGLE 3/8"	5	0	5	1	5	0	10
WH-1	FROST PROOF WALL HYDRANT	3/4"		DIRECT	1	0	1	1	1	0	1

47

CONNECT TO THE EXISTING 3-1/2" DOMESTIC WATER SERVICE WITH UPSTREAM METER AND BFP IN THE UTILITY ROOM.

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.

PROVIDE WATER HEATER DWH-1 & DWH-2 PER DETAIL 1/P700.

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.

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.

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.

CONNECT TO THE EXISTING 3" GAS LINE ON ROOF IN LOCATION SHOWN.

PROVIDE GAS CONNECTIONS TO THE COOKING EQUIPMENT PER DETAIL 7/P700.

SUPPORT THE GAS PIPE ON THE ROOF PER DETAIL 5/P700. WOOD BLOCKING IS NOT AN ACCEPTABLE METHOD OF SUPPORTING THE GAS PIPE.

PROVIDE ACCESSIBLE LINE-SIZED GAS VALVE, DIRT LEG, AND UNION AT GAS CONNECTION TO THE EQUIPMENT.

REFER TO ARCHITECTURAL DRAWINGS FOR PAINTING OF INTERIOR AND EXTERIOR EXPOSED GAS PIPE.

PROVIDE DOMESTIC WATER ROUGH-INS FOR THE CHEMICAL DISPENSER FAUCET (HB-1) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.

PROVIDE DOMESTIC WATER ROUGH-INS FOR THE VICTORY WASH DISPENSER FAUCET (HB-2) AT 52" AFF. SEE ARCHITECTURAL ELEVATION FOR ADDITIONAL INFORMATION.

PROVIDE ROUGH-INS TO RESTROOM HAND SINKS AS SHOWN IN DETAIL 14/P700.

PROVIDE KITCHEN EQUIPMENT GAS SHUTOFF 6" BELOW THE CEILING PER DETAIL 4/P700.

CONNECT CHEMICAL DISPENSER TO HB-1. CHEMICAL DISPENSER HAS AN INTEGRAL AIR GAP AS IS SHOWN IN DETAIL 10/P700.

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.

PROVIDE ACCESSIBLE VALVE IN WATER SUPPLY TO FIXTURE AS SHOWN.

PROVIDE GAS CONNECTION TO THE RICE COOKER PER DETAIL 6/P700.

PROVIDE GAS ROUGH-IN TO FRYER BEHIND RICE COOKER TABLE SO THAT VALVES AND DIRT LEG ARE ACCESSIBLE ONCE FRYER IS SECURED INTO PLACE.

PROVIDE AN ACCESSIBLE MAIN DOMESTIC WATER SHUTOFF VALVE ABOVE LAY-IN CEILING AS SHOWN. VALVE SHALL BE 12" ABOVE THE TOP OF THE LAY-IN CEILING. PERMANENTLY INSTALL THE "WATER SHUTOFF" SIGN TO THE CEILING GRID BELOW THE VALVE.

INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHITPOTLE'S INSTALLATION INSTRUCTIONS.

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.

PROVIDE 3/4" HOT WATER TO THE DISH MACHINE, MAKING FINAL CONNECTION USING CONNECTION HOSE FURNISHED WITH DISH MACHINE. PROVIDE WATER HAMMER ARRESTOR ON HOT WATER LINE. PROVIDE AN ACCESSIBLE 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.

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.

PROVIDE FILTERED DOMESTIC WATER ROUGH-INS FOR THE SPEED FILL POT FILLER FAUCET (PF-1) AT 40" AFF. SEE ARCHITECTURAL ELEVATION FOR DETAIL.

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.

INSTALL RGF IMSB ICE MAKER SANITIZER FURNISHED BY TUV PER CHITPOTLE'S INSTALLATION INSTRUCTIONS. LOCATE IMSB BELOW UTENSIL COUNTER IN A LOCATION THAT DOES NOT INTERFERE WITH THE ROLLING RACK BELOW THE UTENSIL COUNTER.

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).

FIXTURE	TAG	MBH	EQUIVALENT LENGTH FROM METER [FT]
GAS TANK-TYPE WATER HEATER	DWH-1	199	135
GAS FRYER	FB-1	90	140
GRIDDLE	GR-1	107	145
MAKEUP AIR UNIT	MAU-1	225	160
RICE COOKER	RC-1	33	140
RANGE	RN-1	192	145
KITCHEN ROOFTOP UNIT	RTU-1	180	125
DINING ROOM ROOFTOP UNIT	RTU-2	180	115
Grand total		1206	MAX: 160

P100 N.T.S.

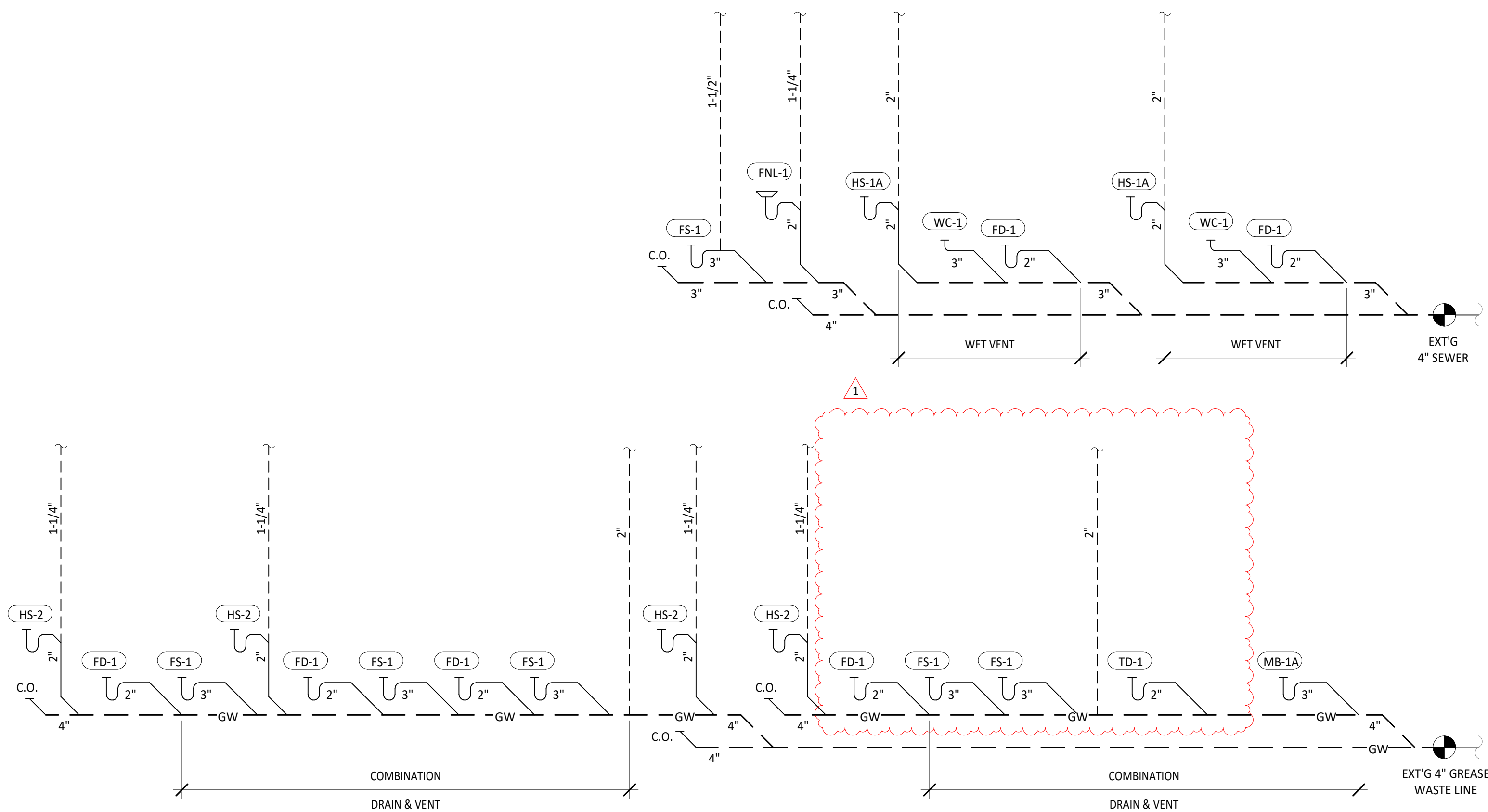
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1/4" = 1'-0"

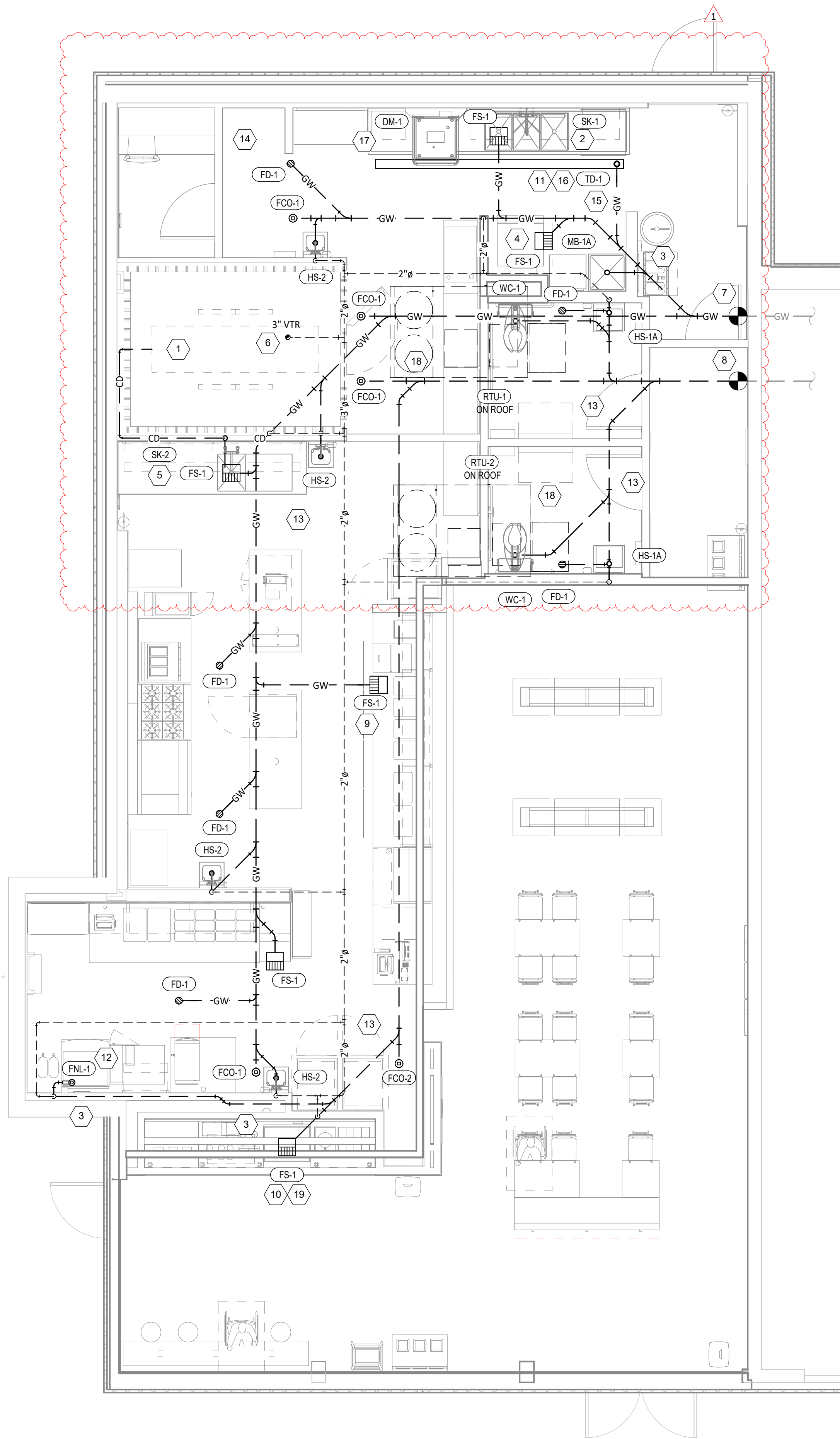
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PLUMBING WASTE AND VENT PLAN NOTES

- 1 PROVIDE 3/4" CONDENSATE DRAIN FROM THE WALK-IN COOLER EVAPORATOR TO THE FLOOR SINK 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 8" AFF AND BE SECURED TO FLOOR.
- 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 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.
- 5 PROVIDE DRAIN LINES FROM THE FOOD PREP SINK TO THE FLOOR SINK. PROVIDE AN AIR GAP AT THE DISCHARGE TO THE FLOOR SINK.
- 6 PROVIDE A 3" VENT THROUGH THE ROOF PER DETAIL 3/P700.
- 7 CONNECT TO EXISTING 4" GREASE WASTE LINE LEADING TO EXISTING 1000 GALLON INTERCEPTOR.
- 8 CONNECT TO EXISTING 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 SEE DETAIL 18/P700 FOR DRAINS FROM TEA TRAY, ICE MAKER, AND SODA MACHINE TO FUNNEL DRAIN.
- 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 MOP BASIN CONCEALED IN THE WALL AS SHOWN IN DETAIL 9/P700.
- 16 PROVIDE TRENCH DRAIN AS SHOWN IN DETAIL 15/P700.
- 17 INSTALL DRAIN HOSE FURNISHED WITH DISH MACHINE FROM DISH MACHINE OUTLET TO FLOOR SINK. HOLD DRAIN HOSE TIGHT TO WALL AND SECURE TO 3-COMP SINK DRAIN TO MAINTAIN AN AIR GAP AT THE FLOOR SINK.
- 18 PROVIDE CONDENSATE TRAP ON RTU PER DETAIL 13/P700.
- 19 PROVIDE 3/4" PVC DRAIN PIPE 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.



2 SANITARY WASTE & VENT DIAGRAM
P110 N.T.S.



1 SANITARY WASTE & VENT PLAN
P110 1/4" = 1'-0"

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1 01/22/24 WATER HEATER REVISION

Drawn: CJK
Checked: JEJ

Project No.
2201014

Contents:

PLUMBING PLAN
WASTE & VENT

P110

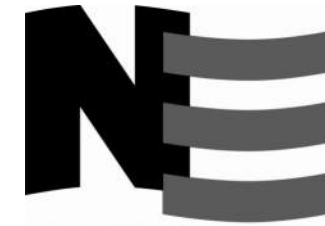
PLUMBING FIXTURE SCHEDULE

TAG	FIXTURE	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	DESCRIPTION	QUANTITY	CONNECTION SIZES			FIXTURE UNITS (EACH)				FIXTURE UNITS (TOTAL)			
								CW	HW	WASTE	CW	HW	TOTAL	SAN	CW	HW	TOTAL	SAN
BFP-1	RP2 BACKFLOW PREVENTER	GC	GC	CONBRACO	4ALF-203-T2F	LEAD FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH AUTOMATIC DIFFERENTIAL RELIEF VALVE	1	1/2"			1		1		1	0	1	0
DM-1	DISH SANITIZING MACHINE (PUMPED OUTLET)	KES	GC	FURNISHED BY KES	--	CHEMICAL SANITIZING DISH MACHINE WITH INTEGRAL ELECTRIC BOOSTER HEATER AND PUMPED OUTLET	1		3/4"	3/4"	0	1	1	0	0	1	1	0
ET-1	EXPANSION TANK	GC	GC	AMTROL	ST-12	4.4 GALLON CAPACITY	1	3/4"			0	0	0	0	0	0	0	0
FCO-1	FLOOR CLEANOUT (4")	GC	GC	SIOUX CHIEF	852-4PNR	ON-GRADE ADJUSTABLE CLEANOUT WITH INTERNAL THREADED CLEANOUT PLUG AND ROUND NICKEL-BRONZE RING AND COVER (OR APPROVED EQUAL WITH INTERNAL THREADED CLEANOUT PLUG)	4			4"				0	0	0	0	0
FCO-2	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	0	0	0	0
FD-1	FLOOR DRAIN	GC	GC	SIOUX CHIEF	842-2-PNR	ADJUSTABLE FLOOR DRAIN, ROUND POLISHED METAL RING AND STRAINER	6			2"			0	2	0	0	0	12
FNL-1	FUNNEL DRAIN	GC	GC	JAY R. SMITH	3832T	FUNNEL DRAIN WITH CAST BRONZE BODY AND THREADED OUTLET	1			2"	0	0		2	0	0	0	2
FS-1	FLOOR SINK	GC	GC	SIOUX CHIEF	861-3PU2	HEAVY DUTY PVC FLOOR SINK WITH ALUMINUM DOME BOTTOM STRAINER AND OPEN HALF PVC GRATE	6			3"			0	5	0	0	0	30
HB-1	HOSE BIBB	KES	GC	T&S	B-2345-01-XX	COMMERCIAL QUALITY HOT & COLD MIXING WALL HYDRANT. SUPPLY ARMS SHALL HAVE INTEGRAL SHUT-OFF STOP AND CHECK VALVE.	2	1/2"	1/2"		1.5	1.5	2	0	3	3	4	0
HB-2	HOSE BIBB	KES	GC	T&S	B-0730	SILL FAUCET WITH 1/2" NPT FEMALE INLET AND 3/4" GARDEN HOSE THREADED OUTLET.	1	1/2"			1.5	0	1.5	0	1.5	0	1.5	0
HS-1A	RESTROOM HAND SINK	GC	GC	KOHLER	K-2084	ADA-ACCESSIBLE, WALL-MOUNTED, PORCELAIN LAVATORY. PROVIDE ZURN Z1231 (Z1231-D FOR BACK-TO-BACK APPLICATIONS) CONCEALED ARM CARRIER IN WALL.	2	0"	0"	2"	0	0	0	1	0	0	0	2
HS-1B	RESTROOM HAND SINK FAUCET	KES	GC	FURNISHED BY KES	--	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"	0"	1.5	1.5	2	0	3	3	4	0
HS-2	KITCHEN HAND SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL SINK WITH WALL MOUNTING BRACKET AND BACKSPASH MOUNTED FAUCET WITH SWIVEL GOOSENECK	4	1/2"	1/2"	2"	1.5	1.5	2	1	6	6	8	4
IM-1	ICE MAKER - BOH	KES	GC	SEE ARCH	--	BACK OF HOUSE ICE MAKER WITH BIN	1	1/2"			1	0	1	0	1	0	1	0
IM-2	ICE MAKER - SODA	KES	KES	SEE ARCH	--	SODA MACHINE-MOUNTED ICE MAKER	2	1/2"			1		1		2	0	2	0
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	0"	0"	3"	0	0	0	3	0	0	0	3
MB-1B	MOP BASIN FAUCET	KES	GC	FURNISHED BY KES	--	SERVICE SINK FAUCET WITH BUILT IN STOPS, LEVER HANDLES, AND WALL BRACE.	1	1/2"	1/2"	0"	2.25	2.25	3	0	2.25	2.25	3	0
P-1	RECIRCULATING PUMP	GC	GC	TACO	003-BC4-PNP	DOMESTIC HOT WATER CARTRIDGE-TYPE CIRCULATOR WITH INTEGRAL TIMER. PROVIDE WITH AQUASTAT SET AT APPROXIMATELY 100° F.	1	1/2"					0		0	0	0	0
PF-1	POT FILLER	KES	GC	FURNISHED BY KES	--	WALL-MOUNTED POT FILLER W/ SELF-CLOSING FILLER VALVE AND 3/8" NPT FEMALE INLET	1	1/2"			1.5	0	1.5		1.5	0	1.5	0
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	0	1		1	0	1	0
SK-1	THREE COMPARTMENT SINK	KES	GC	FURNISHED BY KES	--	THREE-COMPARTMENT WARE-WASHING SINK FURNISHED WITH (1) PRE-RINSE UNIT WITH ADD-ON FAUCET	1	1/2"	1/2"	2"	4	4	4	5	4	4	4	5
SK-2	PREP SINK	KES	GC	FURNISHED BY KES	--	STAINLESS STEEL PREP TABLE WITH INTEGRAL PREP SINK. FURNISHED WITH "BIG FLO" FAUCET	1	3/4"	3/4"	2"	3	3	4	0	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 12/P700 FOR REDUCTION TO 2" DRAIN CONNECTION.	1			2"	0	0	0	2	0	0	0	2
TP-3	TRAP PRIMER (THREE-FOUR FLOOR DRAINS)	GC	GC	PRECISION PLUMBING PRODUCTS	P1-500 W/ DU-U	TRAP PRIMER WITH INTEGRAL VACUUM BREAKER AND DISTRIBUTION UNIT. CAP UNUSED DISTRIBUTION UNIT OUTLETS.	2	1/2"			0		0		0	0	0	0
WC-1	WATER CLOSET	GC	GC	KOHLER	K-3519 W/ SEAT K-4666-C	WHITE HIGHLINE 1.0 GPF, 17-1/8"-HIGH, ADA ACCESSIBLE, PRESSURE ASSIST WATER CLOSET WITH OPEN-FRONT SEAT. INSTALL TRIP LEVER ON THE TANK TO THE OPEN SIDE OF THE STALL (ADD -RA TO THE MODEL # FOR RIGHT HAND TRIP LEVER).	2	1/2"		3"	5	0	5	4	10	0	10	8
WH-1	FROST 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.	1	3/4"			1	0	1		1	0	1	0
							48								40.25	22.25	47	68

WATER HEATER SCHEDULE

TAG	DESCRIPTION	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	STORAGE	INPUT	RECOVERY RATE [GPH]	TEMP. RISE	WATER CONN.	WEIGHT	TANK DIAMETER	NOTES
DWH-1	GAS TANK-TYPE WATER HEATER	WHS	GC	A.O. SMITH	BTH-199	100.0 gal	199000.0 Btu/h	336 gal/h	70 °F	1 1/2"	1350	2' - 3 3/4"	97% THERMAL EFFICIENCY. STATE SUF100-199NE IS AN APPROVED EQUAL.

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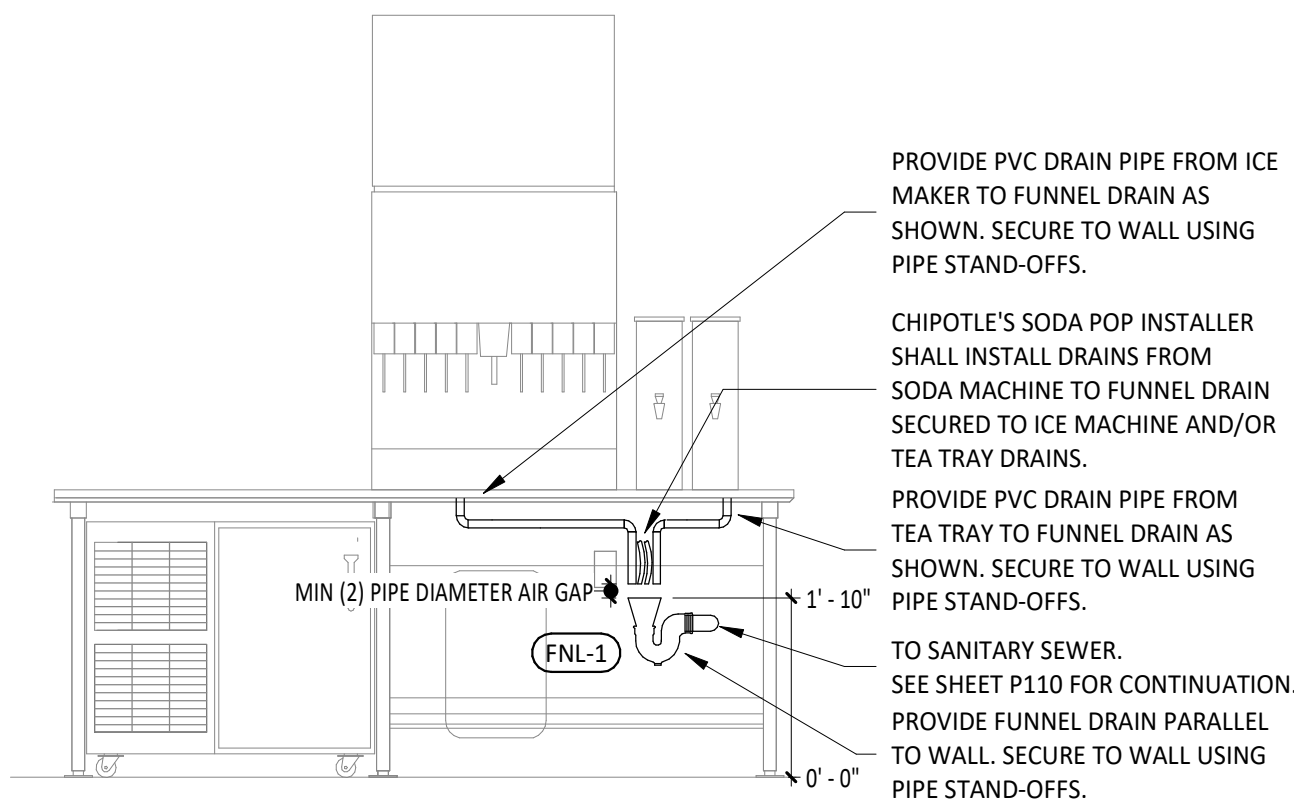
Revisions:	
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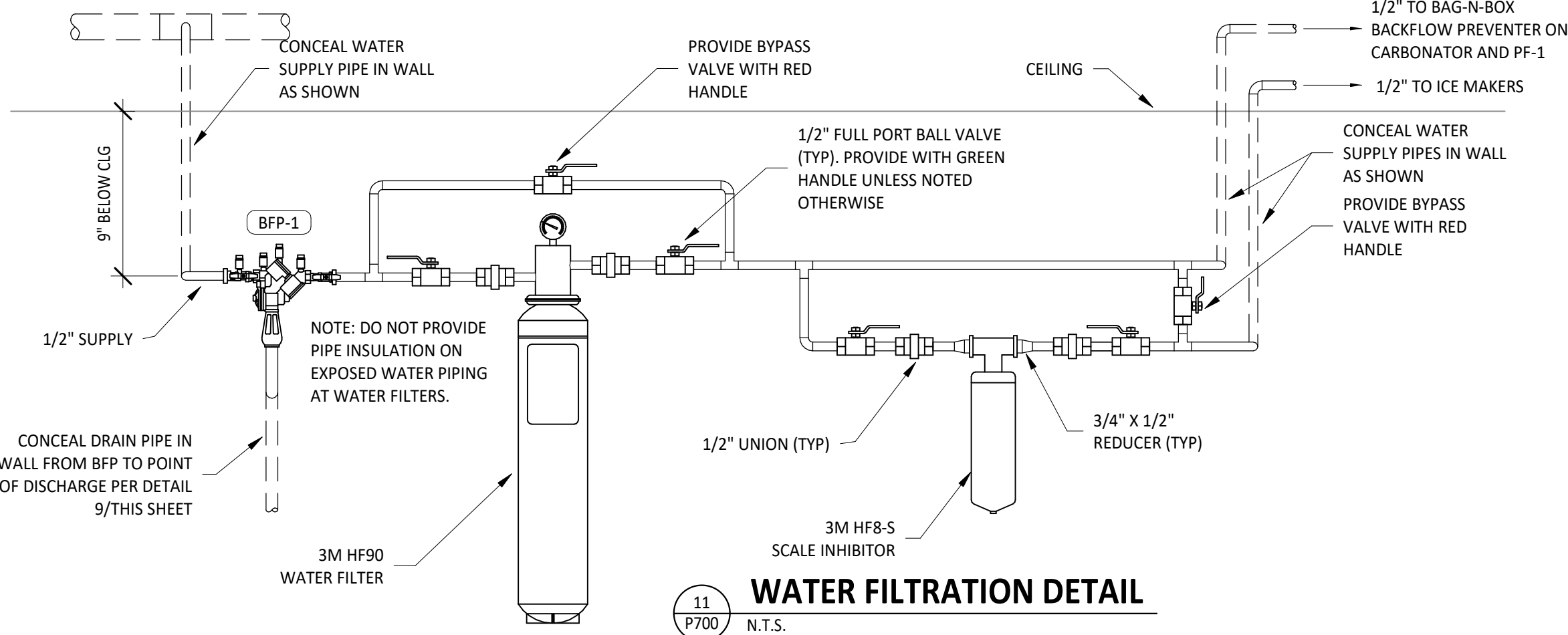
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PLUMBING
SCHEDULES

P600



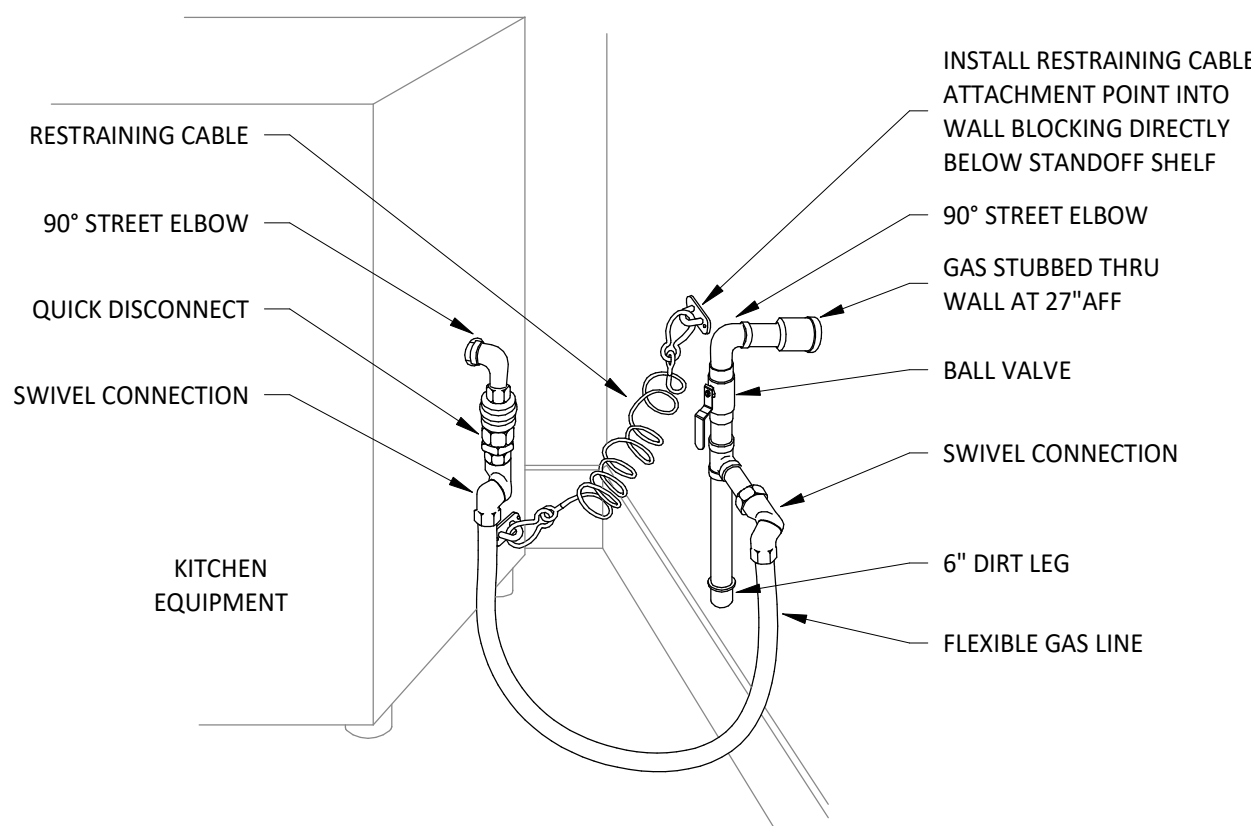
PUW FUNNEL DRAIN DETAIL

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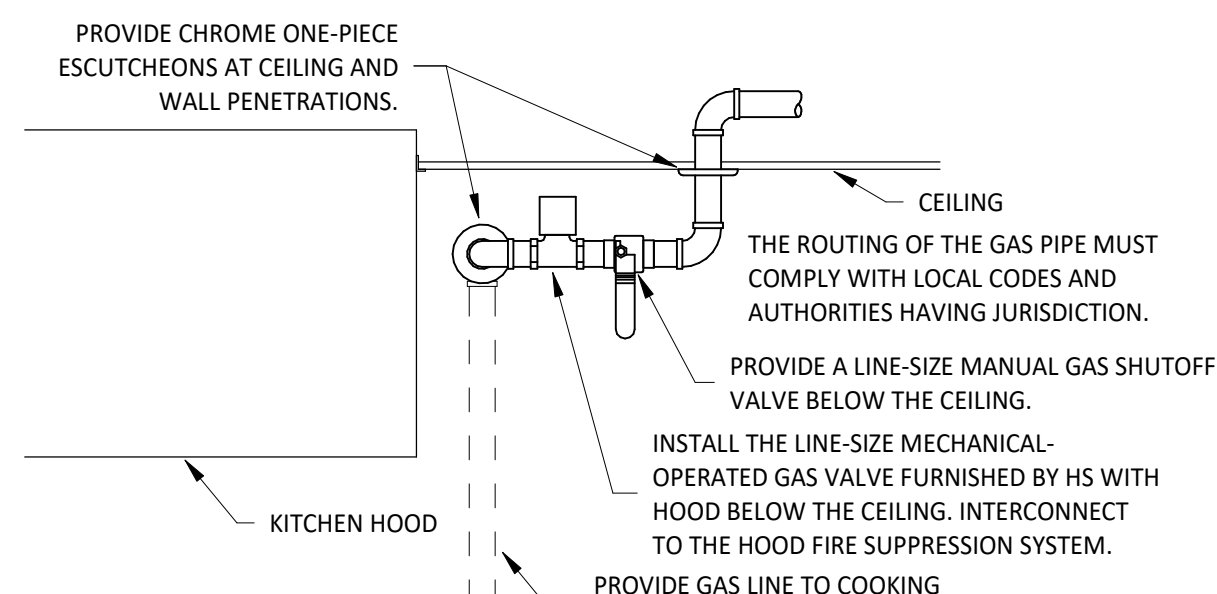
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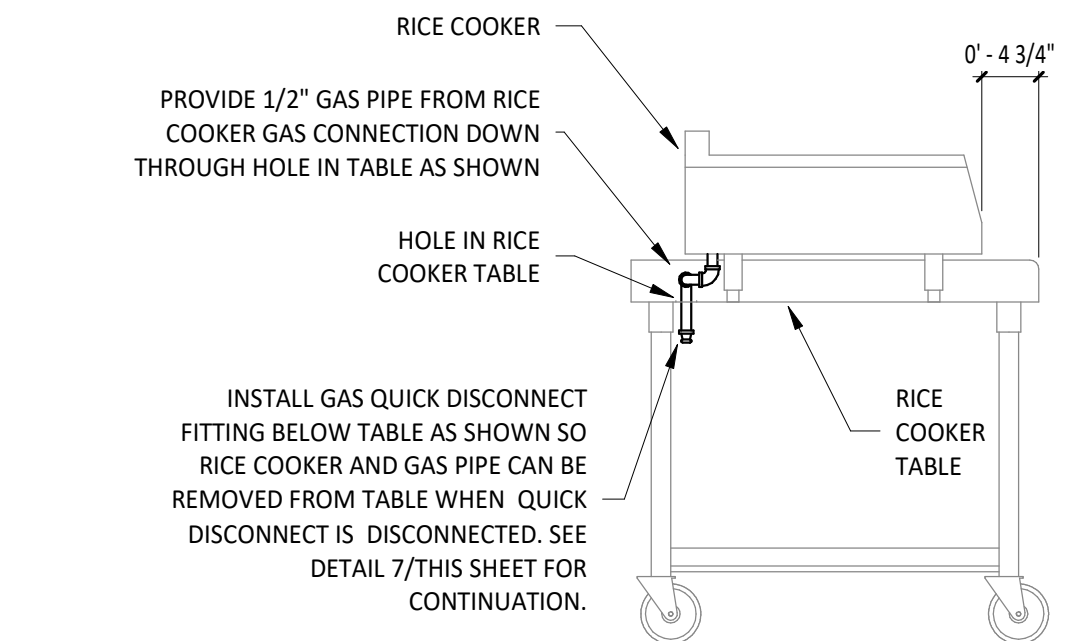
KITCHEN GAS EQUIPMENT DETAIL

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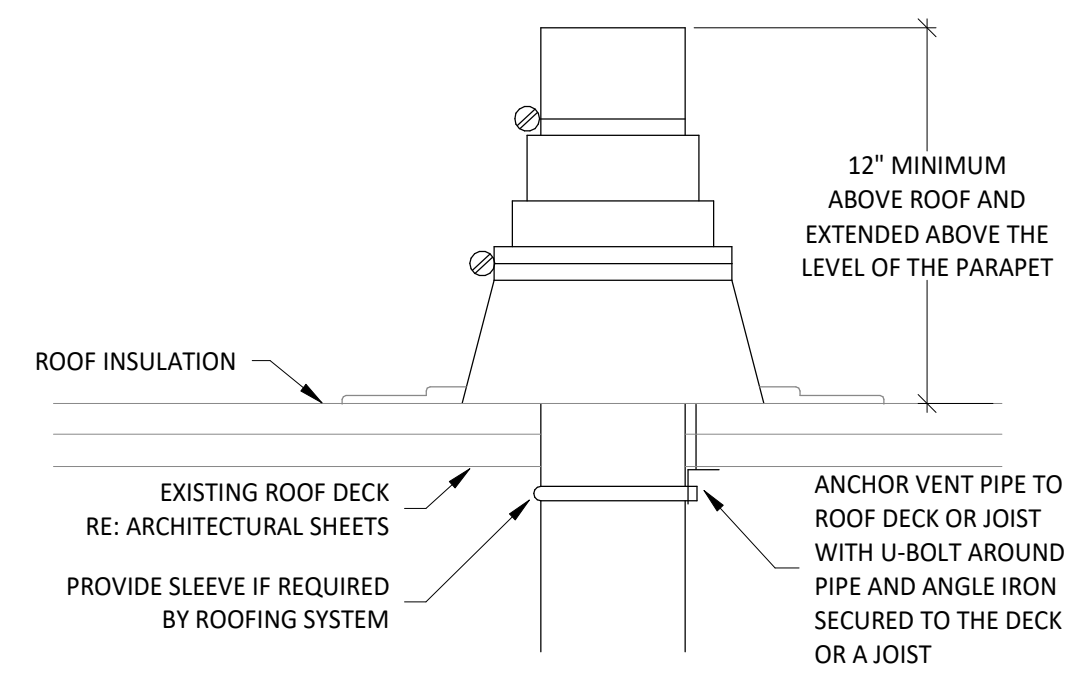
KITCHEN GAS SHUTOFF DETAIL

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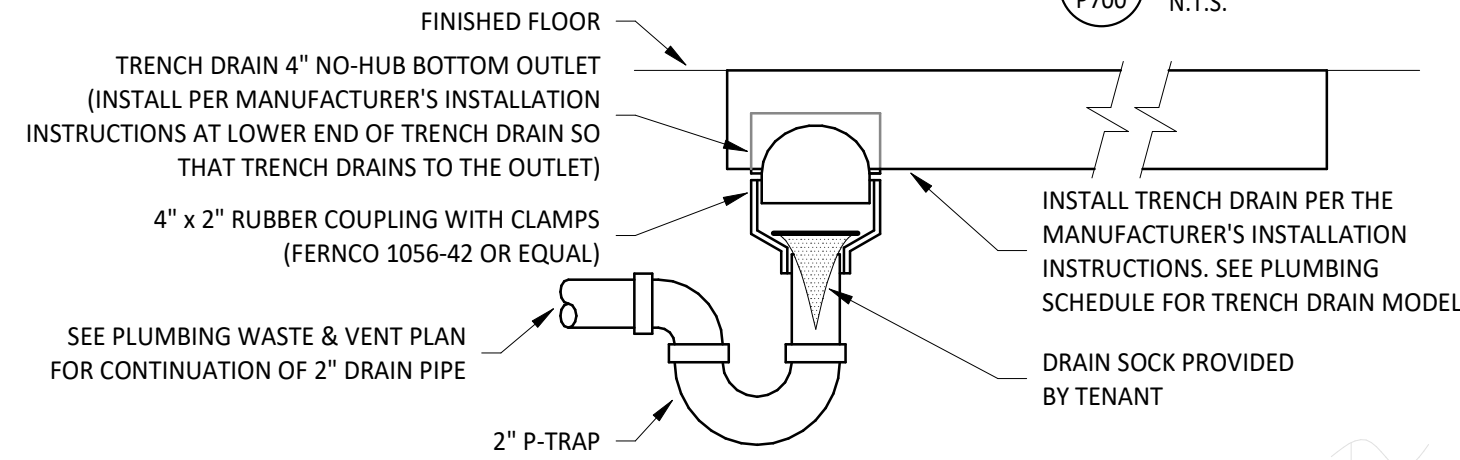
RICE COOKER GAS CONNECTION DETAIL

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P700
N.T.S.



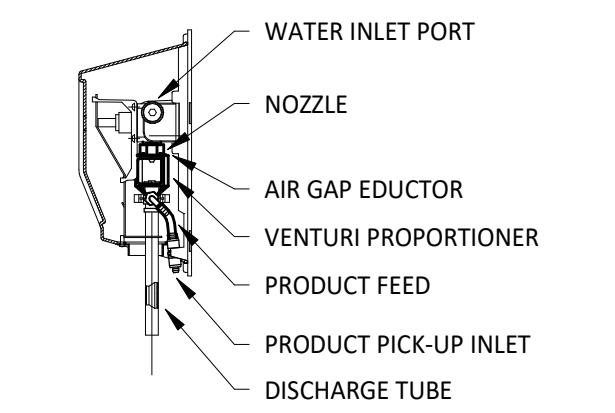
VENT THROUGH ROOF

3
P700
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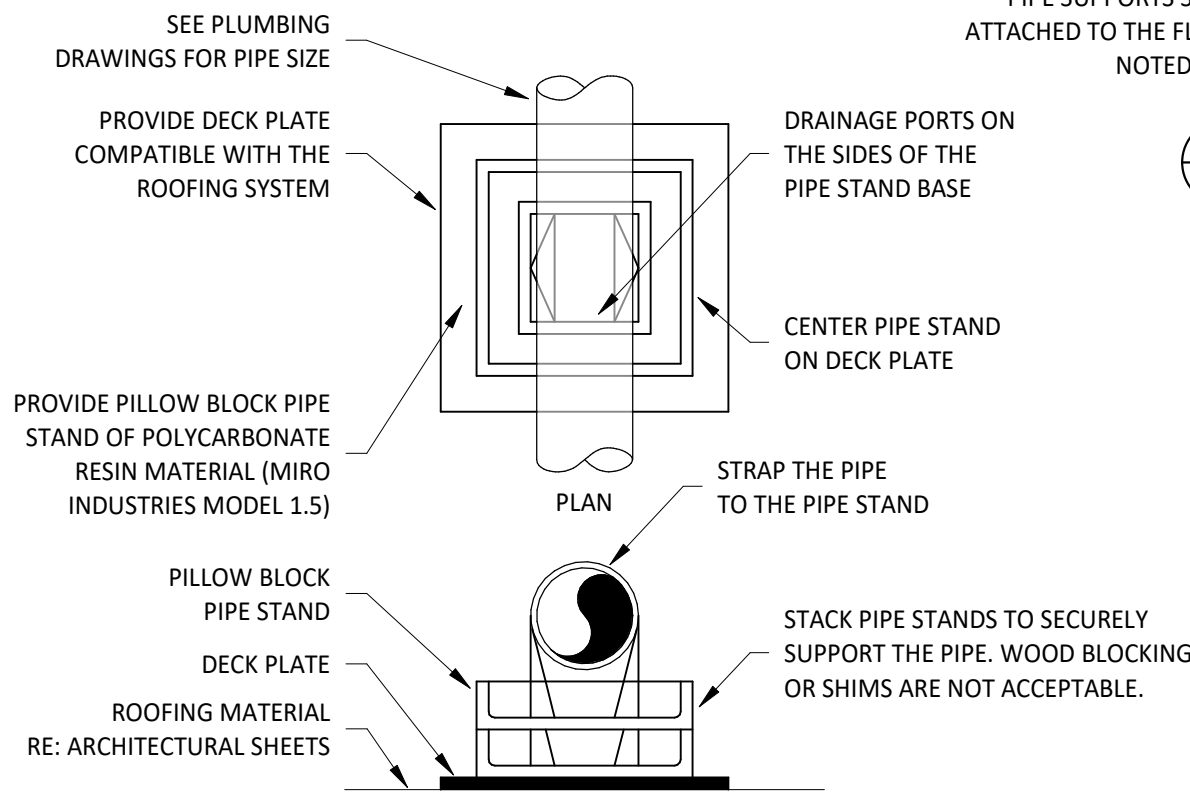
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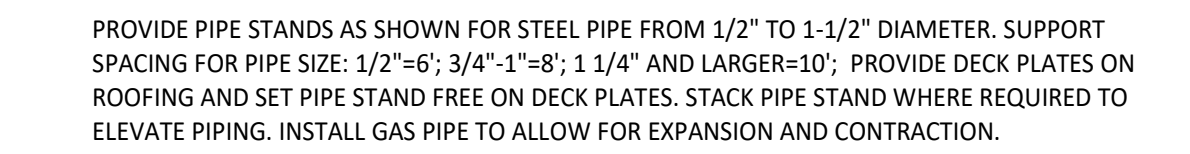
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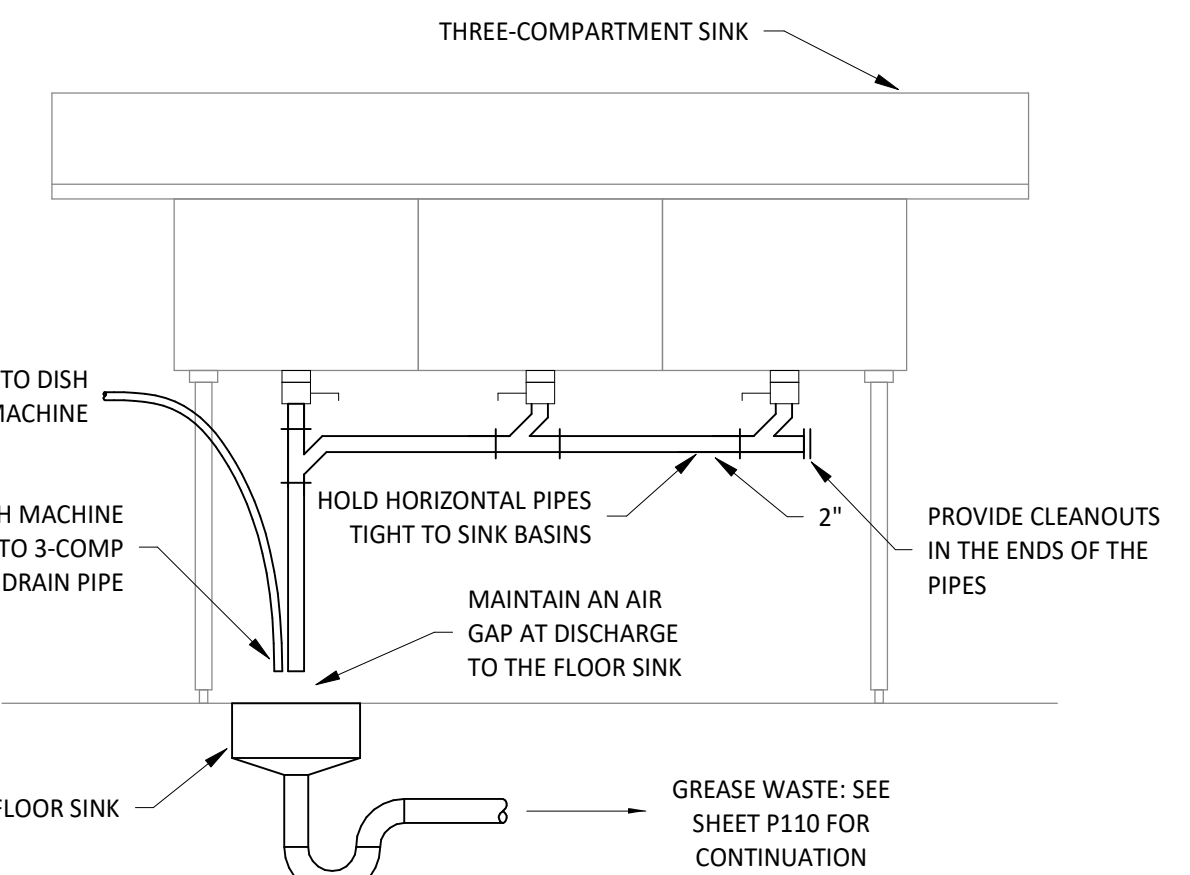
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N.T.S.



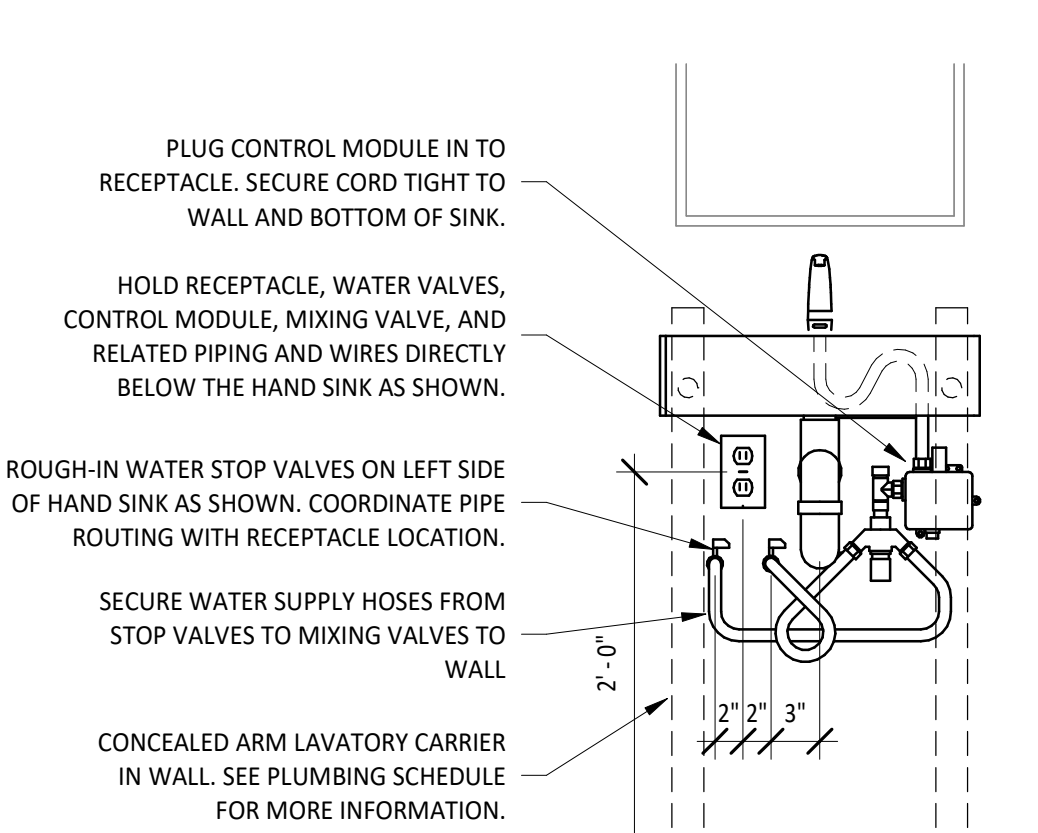
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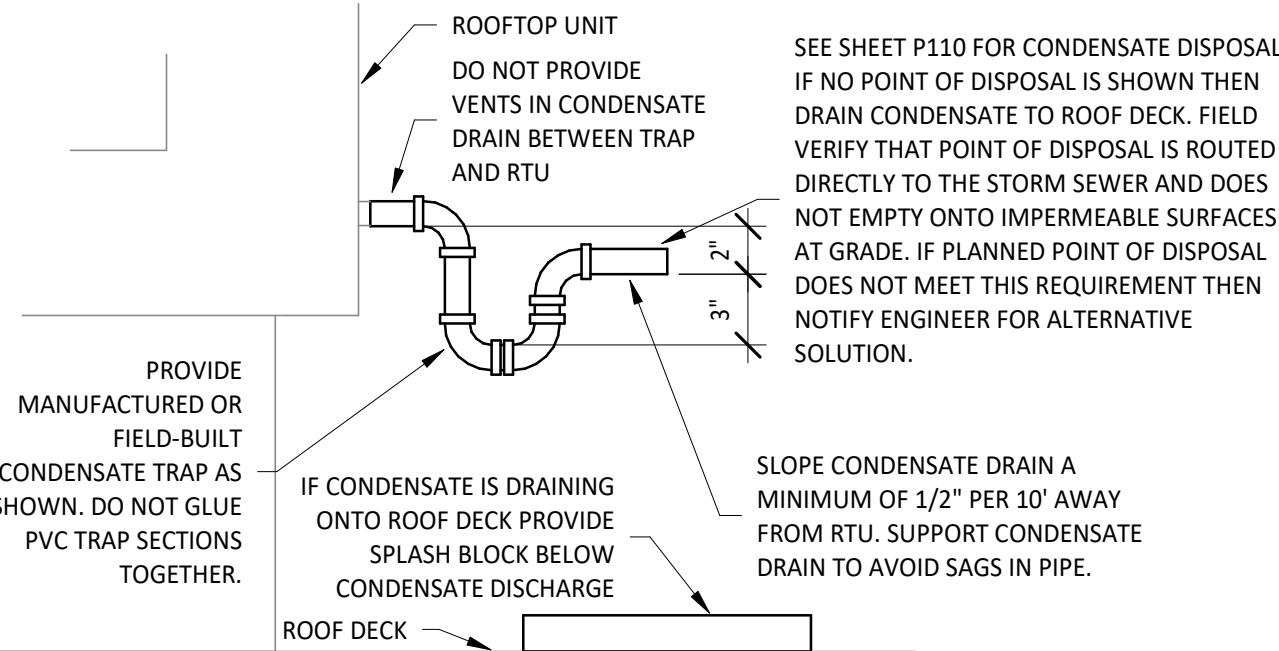
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2
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N.T.S.



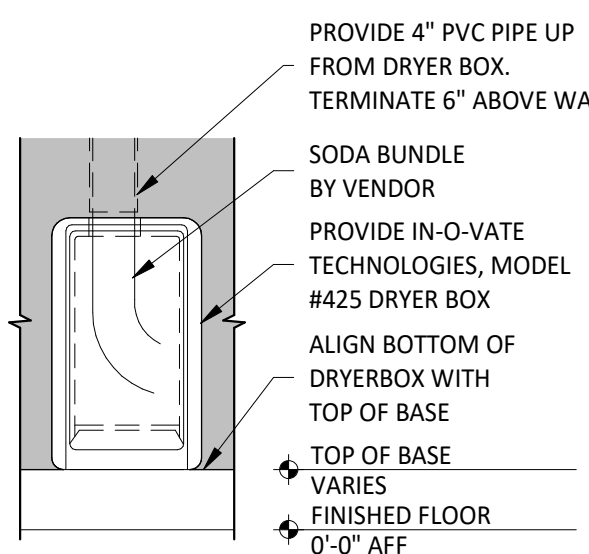
RESTROOM HAND SINK DETAIL

14
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N.T.S.



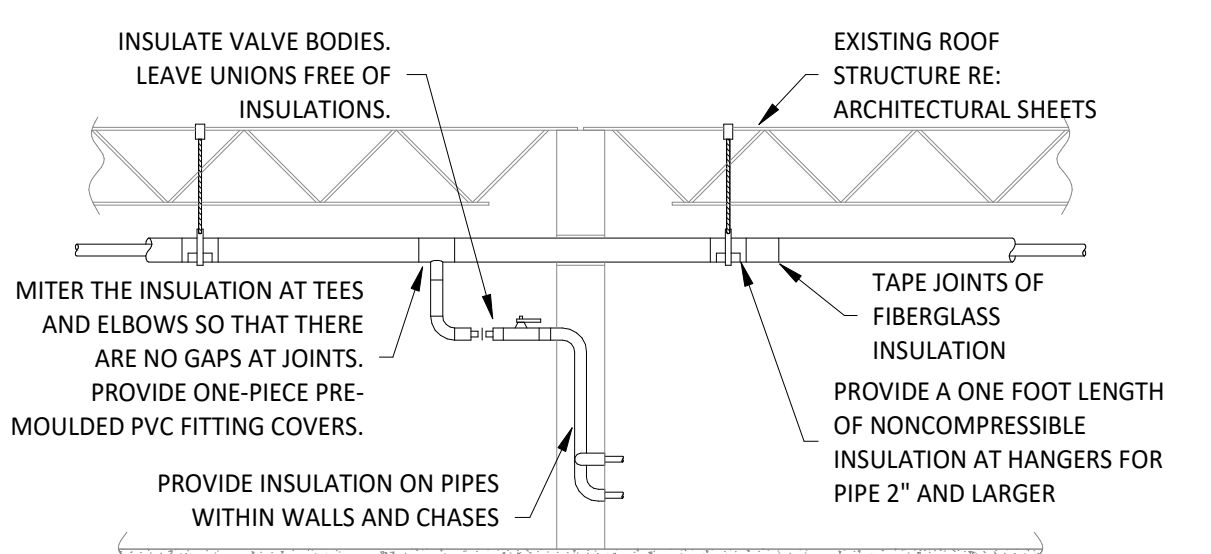
RTU CONDENSATE TRAP DETAIL

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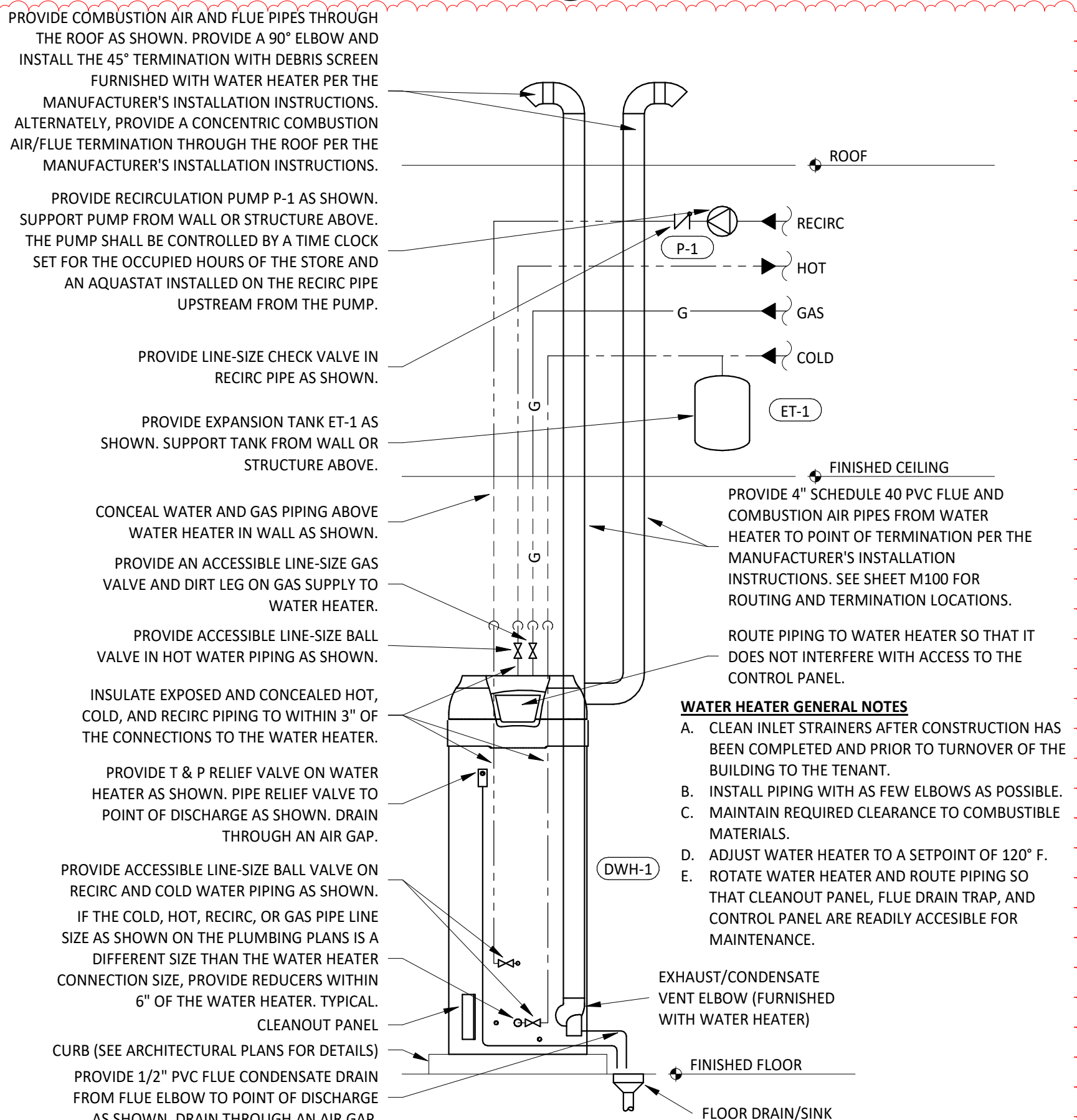
SODA TERMINATION DETAIL

12
P700
N.T.S.



PIPE INSULATION DETAIL

8
P700
N.T.S.



WATER HEATER DETAIL

1
P700
N.T.S.

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2201014

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:
- Tenant's construction forces.
 - Occupants of Project.
 - Architect.
 - Engineer.
 - Testing agencies.
 - 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.
- Trade Jurisdictions: Assigned responsibilities for installation and operation of temporary utilities are not intended to interfere with trade regulations and union jurisdictions.
 - Electric Service: Comply with NECA, NEMA and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
 - 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 conditons of installed location.
- 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.
- 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.
- 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.
 - 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.
 - Provide metal conduit enclosures or boxes for wiring devices.
 - 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.
- Install and operate temporary lighting that fulfills security and protection requirements without operating entire system.
 - Provide one 100-W incandescent lamp (or equivalent) every 50 feet (15 m) in traffic areas.
 - 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.
- 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.
- 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:
- Solid Conductors: ASTM B 3.
 - 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

- 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.
- Use insulated spacer; space 1 inch from wall and support from wall 6 inches above finished floor, unless otherwise indicated.
 - 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 Raceway 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:
- Bands: Pre-tensioned, snap-around, colored plastic sleeves or colored encircling conduit, and place adjacent bands of two-color markings in contact, side by side.
 - 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.
 - Colors: As follows:
 - 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

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:
- Panelboards, Overcurrent Protective Devices, Controllers, Contactors, and Accessories:
 - Square D Co.
 - Eaton Corp.; Cutler-Hammer Products.
 - General Electric Co.; Electrical Distribution & Control Div.
 - Siemens Energy & Automation.
 - Recessed, NEMA PB 1, Type 1.
 - Load Center Capacity: as shown on drawings.
 - Front: Secured to box with concealed trim clamps.
 - Doors: With concealed hinges, flush catches, and tumbler locks, all keyed alike.
 - Bus: Hard drawn copper of 98 percent conductivity.
 - Molded-Case Circuit Breakers: NEMA AB 1, plug-in type, Single-handle for multiple circuit breakers. Appropriate for application, including Type SWD for repetitive switching lighting loads and Type HACR for heating, air-conditioning, and refrigerating equipment.
 - 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, permanently-mounted English and Spanish circuit directories showing the panel schedules as installed in each panelboard.
- B. Mounting Heights: Top of trim 74 inches above finished floor, unless otherwise indicated.
- C. Future Circuit Provisions at Flush Panel boards: Stub four empty 3/4-inch conduits from panelboard into accessible or designated ceiling space.
- D. Wiring in Panelboard Gutters: Arrange conductors into groups, bundle and wrap with wire ties according to NEC guidelines.
- E. Tighten electrical connectors and terminals, including grounding connections, according to manufacturer's published torque-tightening values. Where manufacturer's torque values are not indicated, use those specified in UL 486A.
- F. Perform visual and mechanical inspections and electrical tests stated in NETA ATS.

END OF SECTION 16442

SECTION 16500 - LIGHTING

PART 1 - GENERAL

1.1 SECTION REQUIREMENTS

- A. Submittals: None.
- B. Fixtures, Emergency Lighting Units, and Accessories: Listed and labeled as defined in NFPA 70, Article 100, by a testing agency acceptable to authorities having jurisdiction.
- C. Coordinate ceiling-mounted luminaires with ceiling construction, mechanical work, and security and fire-prevention features mounted in ceiling space and on ceiling.

PART 2 - PRODUCTS

2.1 FIXTURES AND FIXTURE COMPONENTS, GENERAL

- 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
	HOME-RUN TO PANELBOARD AND CIRCUIT NUMBER SHOWN
	PLAN NOTE: SEE PLAN NOTES LISTED ON THE SAME SHEET FOR NOTE MEANING
	DISCONNECT SWITCH: X = SWITCH RATING Y = FUSE SIZE (NF = NON-FUSED) Z = NUMBER OF POLES
	JUNCTION BOX
	ELECTRIC PANELBOARD
	GENERAL PURPOSE 1-POLE SWITCH
	MANUAL STARTER WITH PILOT LIGHT
	NEMA 5-20R 1-PLEX RECEPTACLE
	NEMA 5-20R DUPLEX RECEPTACLE
	NEMA 5-20R DOUBLE-DUPLEX RECEPTACLES
	NEMA 5-20R DUPLEX COMBINATION ISOLATED GROUND/GFI RECEPTACLE PASS & SEYMOUR MODEL#20951GTRGRY (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.
	SECURITY SYSTEM KEYPAD: PROVIDE A RECESSED JB WITH A 1/2" CONDUIT TO ABOVE THE DROP TILE CEILING IN THE OFFICE AREA AND TERMINATE WITH A CONDUIT BUSHING

ELECTRICAL MATERIAL SCHEDULE

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

ELECTRICAL GENERAL NOTES

- A. GENERAL NOTES APPLY TO ELECTRICAL SHEETS.
- B. ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE ELECTRICAL CODE AND IN ACCORDANCE WITH THE AUTHORITY HAVING JURISDICTION. SEE ARCHITECTURAL SHEETS FOR THE PREVAILING CODES.
- C. WIRING SHALL BE (2)#12, #12 G IN 3/4" C UNLESS NOTED OTHERWISE.
- D. INDIVIDUAL CONDUIT HOME RUNS SHOWN SHALL NOT BE CONSOLIDATED.
- E. CIRCUIT EMERGENCY LIGHTS, ILLUMINATED EXIT SIGNS, AND NIGHT LIGHTS AHEAD OF LOCAL SWITCHING.
- F. INSTALL WALL SWITCHES AT 48" AFF TO CENTER OF SWITCH AND RECEPTACLES AT 18" AFF TO CENTER OF RECEPTACLE UNLESS NOTED OTHERWISE.
- G. INSTALL CONDUIT CONCEALED ABOVE THE CEILING, IN WALLS, OR IN RACEWAYS.
- H. PROVIDE 1" CONDUIT WITH PULL STRING FROM EACH J-BOX FOR TELEPHONE OR DATA JACKS TO ABOVE OFFICE CEILING. SEE MATERIAL SCHEDULE FOR ALLOWABLE CONDUIT MATERIALS. PROVIDE CONDUITS WITH MINIMAL ELBOWS AND TERMINATE CONDUITS ABOVE OFFICE CEILING WITH CONDUIT BUSHING.
- I. THE TERM "FURNISH" MEANS SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS. THE TERM "INSTALL" DESCRIBES THE OPERATIONS AT THE PROJECT SITE INCLUDING THE ACTUAL UNLOADING, UNPACKING, ASSEMBLY, ERECTING, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS. THE TERM "PROVIDE" MEANS TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE.
- J. DIMENSIONS SHOWN IN ELECTRICAL ELEVATIONS ARE FROM THE WALL FRAMING UNLESS NOTED OTHERWISE.
- K. PROVIDE LABELING CALLED FOR IN THE ELECTRICAL DRAWINGS USING ENGRAVED PHENOLIC PLATES (WHITE WITH BLACK LETTERING).

ELECTRICAL ABBREVIATIONS

AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
C	CONDUIT
(E)	EXISTING
EXT'G	EXISTING
G	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPT
IG	ISOLATED GROUND
JB	JUNCTION BOX
NL	NIGHT LIGHT
S	SURFACE MOUNTED
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
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
TRG	TENANT'S RAILING SUPPLIER
TSV	TENANT'S SIGN VENDOR
TUV	TENANT'S UV SANITIZER SUPPLIER
WCS	TENANT'S WALK-IN COOLER SUPPLIER
WHS	TENANT'S WATER HEATER SUPPLIER

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Contents:

ELECTRICAL SPECIFICATIONS

E010

LIGHTING CONTROL PANEL SCHEDULE: LCP

RELAY	PANEL	CIRCUIT	AREA SERVED	CONTROL	TIME ON	TIME OFF	DIMMER CONTROL	NOTES
R1	A	32	KITCHEN A	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R2	A	32	KITCHEN B	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R3			SPARE				N/A	SINGLE POLE (NC)
R4	A	30	DINING ROOM A	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R5	A	30	DINING ROOM B	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R6	A	30	DINING ROOM DL	TIMECLOCK	10:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R7	A	28	RESTROOM EXHAUST FAN	TIMECLOCK	7:00:00 AM	12:00:00 AM	N/A	SINGLE POLE (NC)
R8	A	42	EXT. LIGHTING/SIGNAGE	TIMECLOCK	SUNSET - 1 HR	12:00:00 AM	N/A	SINGLE POLE (NC)

LIGHTING CONTROL COMPONENTS SCHEDULE

	DESCRIPTION	QUANTITY	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	REMARKS
LCP	WALL MOUNTED LIGHTING CONTROL PANEL	1	TLS	GC	ACUITY	ARP INTENC08 NLT 8SPR MVOLT FM DTC	8 RELAY PANEL FOR DIMMING CONTROL WITH FLUSH MOUNT ENCLOSURE, AND DIGITAL TIME CLOCK
\$C	WALL-MOUNTED OVERRIDE SWITCH (4 CHANNEL)	1	TLS	GC	ACUITY	nPODMA 4P WH	SEE LIGHTING CONTROL DIAGRAM FOR SWITCH CONFIGURATION
\$D	WALL-MOUNTED DIMMER SWITCH	2	TLS	GC	COOPER	SAL06P-W	SLIDE DIMMER COMPATIBLE WITH UP TO 300W LED LIGHTING. SET AT 50%. IF DINING ROOM LIGHTS FLICKER AT THIS DIMMER SETTING THEN GC SHALL PROVIDE LUTRON DVCL-253P DIMMER AS REPLACEMENT.
\$OC	WALL-MOUNTED LINE VOLTAGE OCCUPANCY SENSOR	2	TLS	GC	HUBBELL	LHMTS 1-N-WH	WHITE DUAL TECHNOLOGY SINGLE RELAY WITH 1 BUTTON AND NEUTRAL WIRING

LIGHTING FIXTURE SCHEDULE

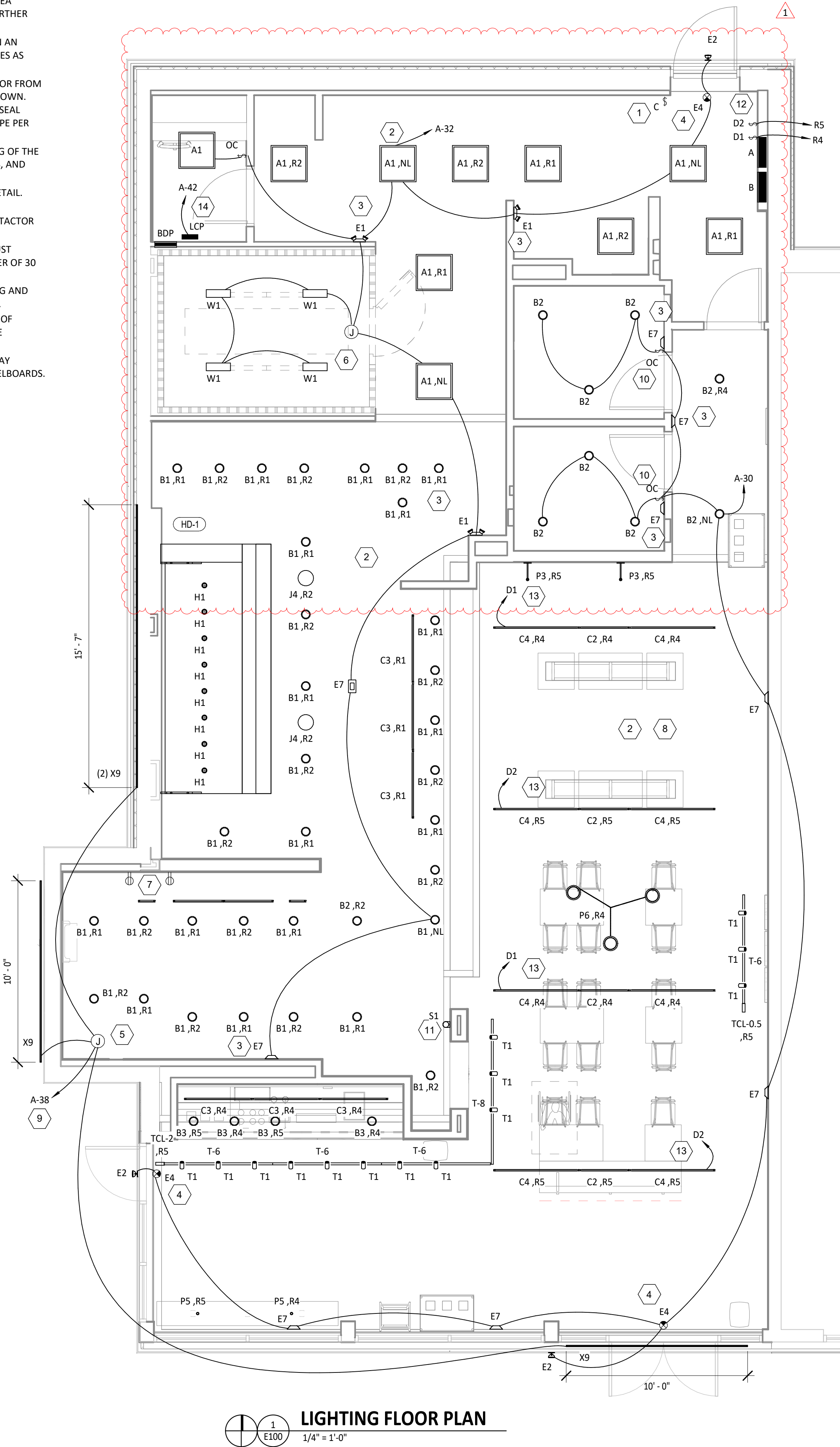
TAG	QUANTITY	TYPE	MOUNT	FURNISHED BY	INSTALLED BY	MANUFACTURER	MODEL	LAMP(S)	VOLTS	WATTS	SPECIAL REQUIREMENTS
A1	10	2x2 LED LENSED TROFFER	LAY-IN	TLS	GC	NORA LIGHTING	NPDBL-E22/334 W	(1) 3000K LED	120	30	COMPATIBLE WITH 0-10V DIMMING, FACTORY LOCKED TO 3000K
B1	33	RECESSED 6IN CAN LIGHT	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL with NTM-57W/M1 Trim	(1) 17W ECOSTORY ECO-PAR38C-17-GU24-27K-25D LED (25"-2700K) W/ GU 24 BASE	120	17	
B2	9	RECESSED 6IN CAN LIGHT W/ LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC-65130WW LED TRIM	INTEGRAL 3000K LED	120	17	LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
B3	4	RECESSED 6IN CAN LIGHT W/ BLACK LED TRIM	CEILING	TLS	GC	NORA LIGHTING	NHIC-6G24ATFL WITH NLCBC2-65127BB LED TRIM	INTEGRAL 3000K LED	120	12	BLACK LED TRIM FURNISHED WITH GU24 SOCKET ADAPTER
C0	2	LOW PROFILE LED - 1 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/12/WW	INTEGRAL 3000K LED	120	5	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C2	6	LOW PROFILE LED - 3 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/34/WW	INTEGRAL 3000K LED	120	12	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C3	6	LOW PROFILE LED - 4 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/46/WW	INTEGRAL 3000K LED	120	15	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
C4	8	LOW PROFILE LED - 5 FT	SURFACE	TLS	GC	HERA LIGHTING	EL/LED/59/WW	INTEGRAL 3000K LED	120	18	FURNISHED WITH COVERS, CONNECTORS, AND ONE HARDWIRE BOX OR CORD/PLUG PER SECTION
E1	3	EMERGENCY LIGHT - DUAL HEAD	VARIOUS	TLS	GC	EXITRONIX	LED-90	(2) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP
E2	3	EXTERIOR REMOTE EMERGENCY LIGHT	VARIOUS	TLS	GC	EXITRONIX	MLED1-B-WP	(1) SPECIAL LED		4	1 LOW VOLTAGE REMOTE EMERGENCY LIGHT POWERED BY REMOTE-CAPABLE EXIT SIGN WITH MOUNTING PLATE
E4	3	WHITE EXIT SIGN WITH EMERGENCY LIGHT - STANDARD RED LETTERS	VARIOUS	TLS	GC	EXITRONIX	CLED-U-WH	(1) SPECIAL LED	120	2	90 MINUTE BATTERY BACKUP WITH INTEGRAL EMERGENCY LIGHT, REMOTE HEAD CAPABLE
E7	9	EMERGENCY LIGHT	VARIOUS	TLS	GC	DUAL-LITE	EV2	(2) 1W INTEGRAL LED	120	1	90 MINUTE BATTERY BACKUP
H1	8	HOOD LIGHT	SURFACE	THS/TLS	THS	VAPOR PROOF LIGHT FIXTURE FURNISHED WITH HOOD	FURNISHED WITH HOOD	(1) TCP L16A19N1527K	120	23	INSTALL LAMP FURNISHED SEPARATELY BY LIGHTING SUPPLIER
J4	2	DECORATIVE PENDANT	SURFACE	TLS	GC	BARNLIGHT	BLE-C-CPT10-ASH-100-SBK-100-CAW	GREEN CREATIVE 9A19DIM/927/GU24/R	120	9	WITH BLACK LAMP SHADE, BLACK CORD, AND OAK LAMPHOLDER
P3	2	ACCENT LIGHT - ARTWORK LIGHT	WALL	TLS	GC	HI-LITE MFG. CO.	H-CW2700-B	(1) 12W ECOSTORY PAR30 LED	120	12	
P5	2	PENDANT	SURFACE	TLS	GC	HI-LITE MFG	H-LC-91/CB12-91/20W LBL	TCP FG25D4027CCQ	120	5	ADJUST CORD LENGTH FOR MOUNTING HEIGHT CALLED FOR IN ARCHITECTURAL DRAWINGS
P6	1	DECORATIVE DINING ROOM PENDANT	SURFACE	TLS	GC	BARN LIGHT	BLE-C-JGT-133-35630-3	INTEGRAL LED	120	30	HARDWIRED SET OF (3) HEADS WITH UNIVERSAL CANOPY AND STANDARD BLACK CABLES
S1	1	DRIVE-UP PICK-UP WINDOW CHIME/STROBE	WALL	TLS	GC	FEDERAL SIGNAL	SLM500B W/ SLMBW-012-024	INTEGRAL		16	0 SET SWITCH A TO "CHIME 1 SINGLE" (11011) AND SWITCH B TO "CHIME 2 SINGLE" (00111)
T1	14	TRACK HEAD	TRACK	TLS	GC	JUNO	R605L 30K 90CRI PDIM WFL BL	INTEGRAL LED	120	10	BLACK CYLINDER TRACK HEAD W/ UNIVERSAL 120V TRAC ADAPTER AND WIDE FLOOD BEAM
T-6	4	TRACK (6 FEET)	SURFACE	TLS	GC	JUNO	T 6FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
T-8	1	TRACK (8 FEET)	SURFACE	TLS	GC	JUNO	T 8FT BK	N/A	120	0	SINGLE CIRCUIT, BLACK FINISH
TCL-0.5	1	CURRENT LIMITER (60W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 0.5A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
TCL-2	1	CURRENT LIMITER (240W)	SURFACE	TLS	GC	JUNO	TCLFM11 BL W/ TCLCB 2A BLCK	N/A	120	0	BLACK CURRENT LIMITING END FEED
W1	4	WIC LED FIXTURE	SURFACE	WCS	GC	FURNISHED WITH WIC	FURNISHED WITH WIC	INTEGRAL LED	120	29	WET-RATED COOLER FIXTURE
X9	4	LED CHANNEL LIGHT	SURFACE	TLS	GC	PARADIGM LED	AMC-2410-S W/ OPAL LENS AND END CAPS	FLEXSR-45-30-67-24	120		FURNISHED W/ REMOTE-MOUNTED NEMA 3R LED DRIVER. SEE PLAN FOR LENGTHS.

LIGHTING FIXTURE SCHEDULE NOTES

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

ELECTRICAL LIGHTING PLAN NOTES

- INSTALL WALL-MOUNTED LIGHTING OVERRIDE SWITCH AND CONNECT TO LCP AS SHOWN IN DETAIL 6/E710
- FOR UNCIRCUITED LIGHT FIXTURES, CONNECT TO RELAY CIRCUIT INDICATED NEXT TO THE FIXTURE TAG THROUGH THE LIGHTING CONTROL PANEL (LCP) UNLESS NOTED OTHERWISE.
- WALL MOUNT THE EMERGENCY LIGHT FIXTURE AT 6" BELOW THE CEILING UNLESS NOTED OTHERWISE
- 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.
- INSTALL LED DRIVERS FURNISHED WITH THE X9 LED STRIP LIGHTS ON WALL 6" ABOVE THE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM LED DRIVER TO THE X9 LIGHT FIXTURES AS SHOWN.
- 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.
- PROVIDE (2) GFCI RECEPTACLES FOR UNDERSHELF LIGHTING AS SHOWN. CONNECT TO SWITCHED LEG OF THE KITCHEN LIGHTING CIRCUIT. SEE ELEVATIONS ON SHEET E700 FOR RECEPTACLE LOCATIONS, HEIGHTS, AND CIRCUITING. INSTALL RECEPTACLES IN A HORIZONTAL ORIENTATION.
- PROVIDE UNISTRUT AS SHOWN ON THE ARCHITECTURAL RCP PER THE ARCHITECTURAL UNISTRUT DETAIL. TYPICAL.
- CONNECT EXTERIOR LIGHTING CIRCUIT TO CIRCUIT SHOWN THROUGH THE EXTERIOR LIGHTING CONTACTOR PANEL PER DETAIL 6/E710.
- 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.
- INSTALL CHIME/STROBE FURNISHED WITH VEHICLE DETECTION SYSTEM ON WALL 12" BELOW CEILING AND CONNECT TO VEHICLE DETECTOR SYSTEM PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- INSTALL WALL-MOUNTED DIMMERS ABOVE PANELBOARDS 6" ABOVE LAY-IN CEILING FOR CONTROL OF DINING ROOM OVERHEAD STRIP LED LIGHTS. CONNECT DIMMERS TO RELAYS SHOWN THROUGH THE LIGHTING CONTROL PANEL. SET DIMMERS AT 50%.
- CONNECT DINING ROOM (RELAY CIRCUITS R4, R5, AND R6) OVERHEAD STRIP LED LIGHTS TO THE RELAY INDICATED THROUGH THE CORRESPONDING WALL-MOUNTED DIMMER INSTALLED ABOVE THE PANELBOARDS.
- INSTALL LIGHTING CONTROL SYSTEM PER DETAIL 6/E710.



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

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Project No.

2201014

Contents:

**ELECTRICAL
LIGHTING PLAN**

E100

SHOW ROOM WINDOW RECEPTACLE. COORDINATE EXACT LOCATION WITH EQUIPMENT INSTALLER PRIOR TO ROUGH-IN. PROVIDE 15-20P FLANGED INLET WIRED TO THE REMOTE CONDENSER. PROVIDE 48" CORDS, ONE WITH 5-20P END AND ONE WITH 15-20P END, FROM ICE MAKER TO RECEPTACLE AND FLANGED INLET.

CONNECT RECEPTABLES 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 RECEPTABLES ARE DE-ENERGIZED UPON ACTIVATION OF HOOD FIRE PROTECTION SYSTEM.

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/E7/10.

PROVIDE 4" OCTAGONAL JUNCTION BOX WITH SCREW THREADS SET AT THE 2 & 8 O'CLOCK POSITIONS FOR THE ANSUL PULL STATION. PROVIDE A 1/2" CONDUIT FROM THE J-BOX TO 6" ABOVE THE CEILING AND TERMINATE WITH A CONDUIT BUSHING. COORDINATE EXACT LOCATION WITH THE ANSUL SYSTEM INSTALLER AND THE FIRE MARSHALL PRIOR TO ROUGH-IN.

HOOD CONTROL PANEL AND ANSUL CABINET SHALL BE LOCATED WITHIN THE INTEGRAL HOOD UTILITY CABINET. PROVIDE FINAL ELECTRICAL CONNECTIONS PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS NECESSARY FOR A COMPLETE AND OPERATIONAL SYSTEM.

PROVIDE SINGLE-GANG J-BOX FOR DATA JACK AS SHOWN FOR KRONOS TIME CLOCK.

PROVIDE AN EMPTY SINGLE GANG J-BOX FOR VOLUME CONTROLS. INSTALL THE CATS VOLUME CONTROL WIRE FURNISHED BY THE TENANT FROM THE J-BOX TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END.

COORDINATE DATA/POWER RECEPTACLE MOUNTING REQUIREMENTS WITH THE CASE WORK INSTALLER PRIOR TO ROUGH-IN.

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 2-1/2" 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.

PROVIDE AN EMPTY 1" CONDUIT WITH PULL STRING FROM THE BASE BUILDING'S TELEPHONE SERVICE ENTRANCE LOCATION TO THE SPACE ABOVE THE OFFICE CEILING.

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.

AFTER THE FAX LINE, POS, AND OFFICE EQUIPMENT IS INSTALLED PROVIDE CHILDPROOF RECEPTACLE COVERS ON UNUSED IG RECEPTABLES AT THE FAX LINE, POS, AND OFFICE.

PROVIDE ONE PHASE, ONE NEUTRAL, AND ONE GROUND CONDUCTOR FROM THE ICE MAKER TO THE REMOTE CONDENSING UNIT.

UNIT SHALL HAVE AN INTEGRAL NON-FUSED DISCONNECT SWITCH.

PROVIDE 3" CONDUIT (EMT, IMC, OR RMC) THROUGH ROOF. TERMINATE WITH WEATHERHEAD 12" ABOVE ROOF FOR FUTURE CELL BOOSTER.

INSTALL THE BYPASS DISTRIBUTION PANEL (BDP) FURNISHED BY THE TENANT. INSTALL PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND DETAIL 3/E7/10.

ROUGH-INS TO SERVE LINE AND POS EQUIPMENT ARE UNDERGROUND. COORDINATE ROUGH-IN REQUIREMENTS AND LOCATIONS WITH EQUIPMENT MANUFACTURER PRIOR TO ROUGH-IN.

ROOFTOP UNIT SHALL HAVE AN INTEGRAL UNIT-MOUNTED GFCI RECEPTACLE. PROVIDE CONNECTION TO CIRCUIT SHOWN.

ICE MAKER RECEPTABLES SHALL BE CONCEALED BEHIND THE ICE MAKER. COORDINATE LOCATION WITH ACTUAL WIDTH OF ICE MAKER.

PROVIDE VERTICAL METAL DIE CAST WEATHERPROOF WHILE IN USE OUTLET COVER ON RECEPTABLES AT COOK LINE. COVER SHALL BE INTERMATIC WP1010MXD FOR SINGLE GANG BOXES AND WP1030MXD FOR DOUBLE GANG BOXES. NO SUBSTITUTIONS SHALL BE ACCEPTED.

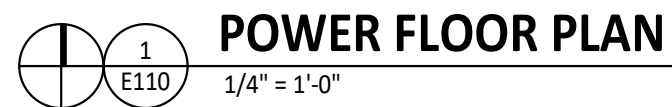
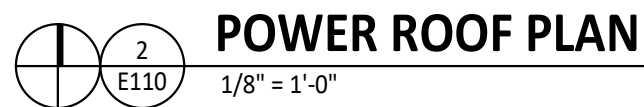
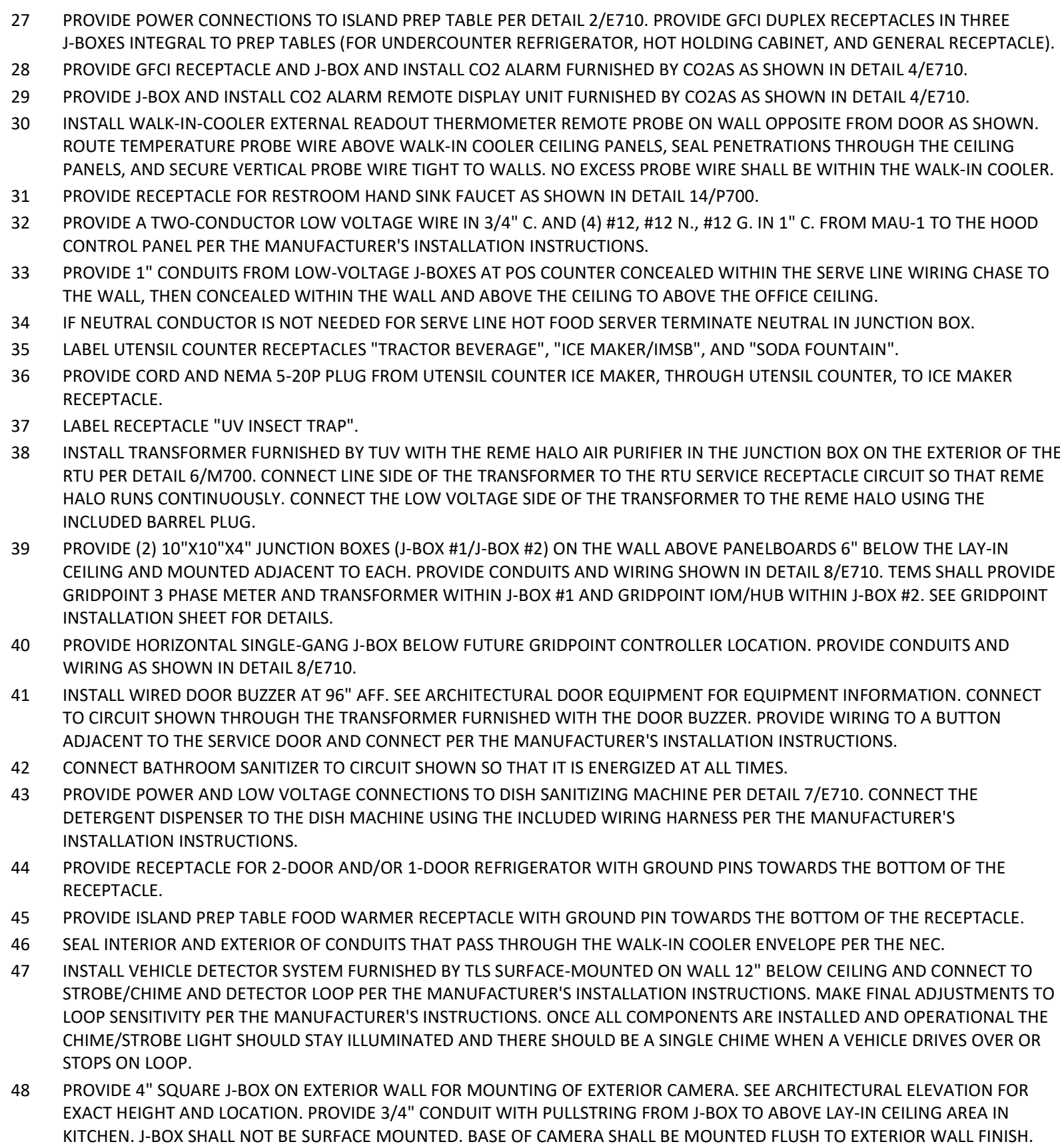
LABEL BATTERY-PROTECTED RECEPTABLES "BATTERY-PROTECTED: DISCONNECT AT PANEL BDP".

LABEL MAIN DISCONNECT SWITCH AND PANEL A "WARNING: BATTERY-PROTECTED RECEPTABLES IN USE. DISCONNECT AT PANEL BDP."

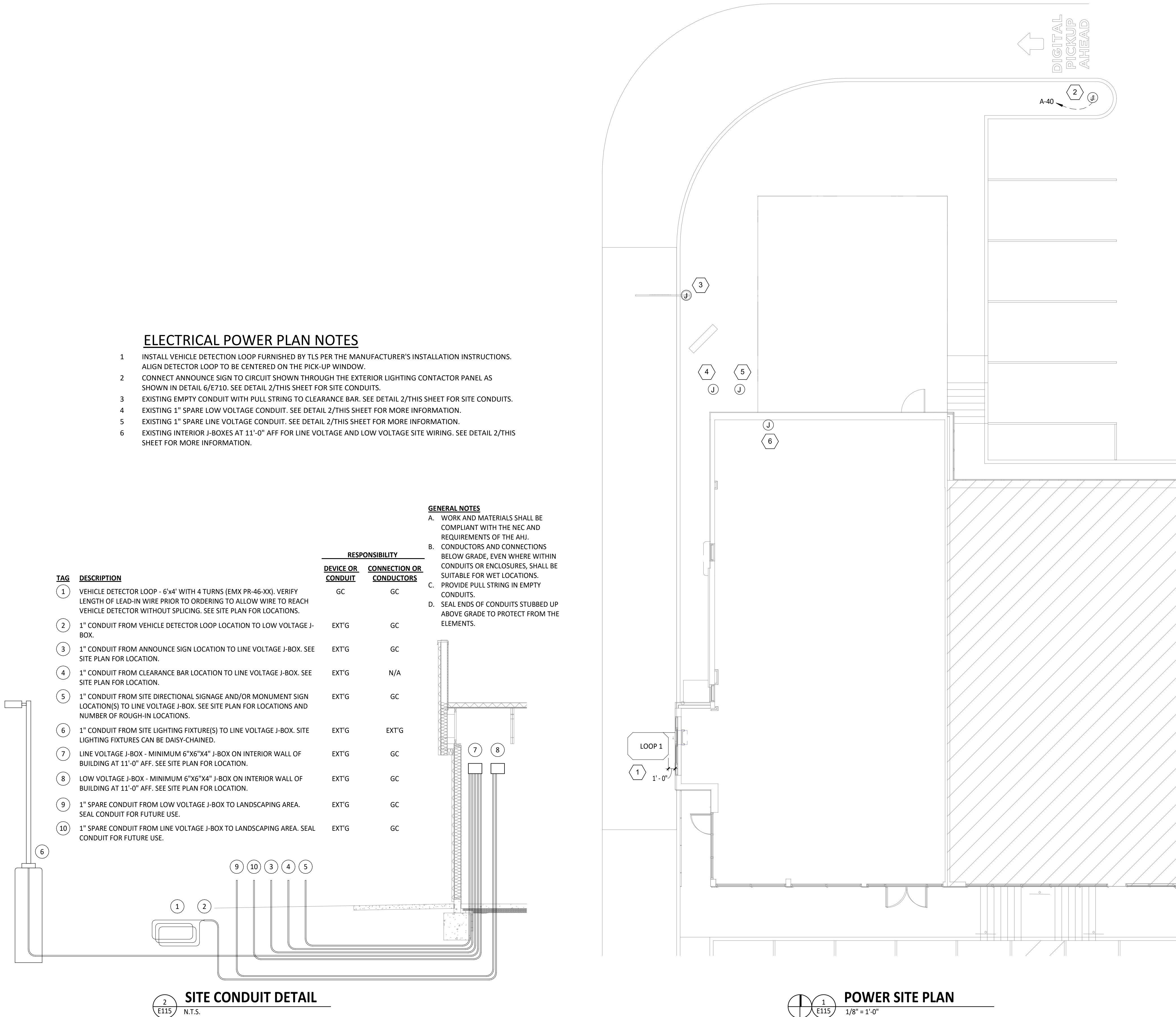
PROVIDE A NEMA 5-20P FLANGED INLET (LEVITON MODEL #15378-C) AND A SINGLE NEMA 5-20R RECEPTACLE IN OFFICE FOR CONNECTION TO A CENTRAL UPS SYSTEM. CONNECT THE FLANGED INLET AND THE SINGLE RECEPTACLE TO THE TERMINAL BLOCK IN THE BDP PER THE MANUFACTURER'S INSTRUCTIONS. PROVIDE FINAL CONNECTION FROM FLANGED INLET TO THE OUTPUT OF THE UPS USING A 2'-LONG 20A EXTENSION CORD. PLUG THE UPS INTO THE SINGLE RECEPTACLE.

CONNECT RESTROOM EXHAUST FAN TO CIRCUIT SHOWN THROUGH THE LIGHTING CONTROL PANEL (LCP).

INSTALL 16/2 SPEAKER WIRE FURNISHED BY OWNER. INSTALL SPEAKER WIRE BETWEEN SPEAKERS IN THE DINING ROOM AND SHOW TO AND TO THE AMPLIFIER IN THE OFFICE WITH 3 FEET OF SLACK AT EACH END. THERE SHALL BE TWO SPEAKER WIRE HOMERUNS WITH TWO SPEAKERS ON EACH HOMERUN. SEE ARCHITECTURAL PLANS FOR SPEAKER LOCATIONS. ADJUST EACH SPEAKER 70V TAP SETTING TO BE 15 WATTS.



E110



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Contents:
**ELECTRICAL SITE
POWER PLAN**

Panel Name: BDP		Volts: 120			
Mounting: Recessed		Phases: 1		Mains: LUGS	
Enclosure: Type 1		Wires: 2		Amperage: 20 A	
CKT	Circuit Description		Trip	Poles	Load
1	POS		15 A	1	0.2 kVA
2	DML - POS		15 A	1	0.2 kVA
3	DML - ORDERING SYSTEM		15 A	1	0.7 kVA
4	OFFICE - SECURITY SYSTEM		15 A	1	0.2 kVA
5	OFFICE - COMPUTER		15 A	1	0.4 kVA
6	OFFICE - DVR/ISP		15 A	1	0.5 kVA
				Total Load:	2.2 kVA
				Total Amps:	18 A

VOLTS: 208/120V Wye PHASES: 3 WIRES: 4 MOUNTING: Recessed ENCLOSURE: Type 1																PANEL: A MAINS: MCB AMPERAGE: 400 A MCB RATING: 400 A			
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #			
1							5.4	0.0								2			
3	AIR CONDITIONER - KITCHEN (RTU-1) (3-#6, #10 G. in 1" C.)	50	3	HACR	44.9	C		5.4	0.0		-	0.0	3	60	TVSS (4-#6, #10 G. in 1" C.)	4			
5									5.4	0.0						6			
7							5.4	0.0								8			
9	AIR CONDITIONER - DINING ROOM (RTU-2) (3-#6, #10 G. in 1" C.)	50	3	HACR	44.9	C		5.4	0.0		-	0.0	3	20	GRIDPOINT 3 PHASE METER (4-#12, #12 G. in 3/4" C.)	10			
11									5.4	0.0						12			
13	RECEPTACLES - STOREFRONT Receptáculos - Frente del restaurante	20	1		4.5	G	0.5	0.2			G	1.5	1	20	GRIDPOINT TRANSFORMER	14			
15	RECEPTACLES - DINING Receptáculos - Comedor	20	1		1.5	G		0.2	1.2							16			
17	Panel BDP	20	1		18.0	G			2.2	1.2	E	10.4	3	20	HOOD EXHAUST FAN (EF-1) (3-#12, #12 G. in 3/4" C.)	18			
19	RECEPTACLES - ROOFTOP Receptáculos - Techo	20	1		3.3	G, E	0.4	1.2								20			
21	RECEPTACLES - POS GENERAL Receptáculos - Cajero general	20	1		6.0	G		0.7	0.5							22			
23	SECURITY/AUDIO Seguridad y audio	20	1		3.0	G			0.4	0.5	E	3.9	3	15	HOOD MAKEUP AIR FAN (MAU-1) (3-#12, #12 G. in 3/4" C.)	24			
25	AIR DOOR CONTROL (AD-1)	20	1		0.0	E	0.0	0.5								26			
27	RECEPTACLES - OFFICE Receptáculos - Oficina	20	1	GFCI	9.0	G		1.1	0.5		A, E	4.4	1	15	RESTROOM FAN (EF-2)	28			
29	RECEPTACLES - RESTROOMS Receptáculos - Baños	20	1		3.0	G			0.4	0.6	A	5.2	1	20	LIGHTING - DINING ROOM Iluminación - Comedor	30			
31	RECEPTACLES - DML Receptáculos - Fax	20	1	GFCI	6.9	G	0.8	1.7			A	13.9	1	20	LIGHTING - KITCHEN Iluminación - Cocina	32			
33	BATHROOM SANITIZER Sanitizante de baño	20	1		0.2	E, -		0.0	0.0		--	--	1	20	SPARE	34			
35	HD-1 (CONTROL AND LIGHTS) (control y luces)	15	1		1.5	E			0.2	0.3	B	2.7	1	20	SIGN LIGHTING Iluminación para letreros	36			
37	PICK UP WINDOW NOTIFICATION	20	1		0.3	G	0.0	0.2			A, B	1.3	1	20	LIGHTING - EXTERIOR Iluminación - Exterior	38			
39	RECIRC PUMP	20	1		0.0	F		0.0	0.1		B	0.8	1	20	SITE SIGNAGE	40			
41	PUW AIR CURTAIN (2-#10, #10 G. in 3/4" C.)	25	2		20.2	D			2.1	0.0	A	0.0	1	20	LIGHTING CONTROL PANEL	42			
43							2.1	0.2			E	1.5	1	20	PICK-UP WINDOW	44			
45								5.2	0.0		--	--	1	20	SPARE	46			
47	AIR CURTAIN HEATER (AD-1)	60	3		43.3	D			5.2	0.0	--	--	1	20	SPARE	48			
49							5.2	0.0			--	--	1	20	SPARE	50			
51	SPARE	20	1	--	--			0.0	0.0		--	--	1	20	SPARE	52			
53	SPARE	20	1	--	--				0.0	0.0	--	--	1	20	SPARE	54			
							17.9	--			--	--	1	--					
	FEED THRU (PANEL B) (4-500 KCMIL, #1/8 G. in 4" C.)	0	3	LUGS	153.2	Spare; F		19.8	--		--	--	1	--					
									17.5	--	--	--	1	--					
PHASE TOTAL [kVA]:							41.6 kVA	40.1 kVA	41.4 kVA										
PHASE TOTAL [AMPS]:							349 A	334 A	346 A										
TYPE	DESCRIPTION	CONNECTED LOAD		DEMAND FACTOR		ESTIMATED DEMAND		PANEL TOTALS											
A	INTERIOR LIGHTING	2 kVA		125.00%		3 kVA		TOTAL CONNECTED kVA: 123 kVA											
B	EXTERIOR LIGHTING	0 kVA		125.00%		1 kVA		TOTAL CONNECTED AMPS: 342 A											
C	COMFORT COOLING	32 kVA		100.00%		32 kVA		TOTAL ESTIMATED kVA: 104.5 kVA											
D	COMFORT HEATING	20 kVA		100.00%		20 kVA		TOTAL ESTIMATED AMPS: 290 A											
E	MISC. MOTOR	6 kVA		100.00%		6 kVA													
F	KITCHEN EQUIPMENT	55 kVA		65.00%		36 kVA													
G	RECEPTACLES	7 kVA		100.00%		7 kVA													

VOLTS: 208/120V Wye PHASES: 3 WIRES: 4 MOUNTING: Recessed ENCLOSURE: Type 1															PANEL: B MAINS: LUGS AMPERAGE: 400 A MCB RATING: 0 A				
CKT #	DESCRIPTION	C/B [A]	# PLS	NOTES	LOAD [A]	LOAD TYPE	LOAD [kVA] A	LOAD [kVA] B	LOAD [kVA] C	LOAD TYPE	LOAD [A]	NOTES	# PLS	C/B [A]	DESCRIPTION	CKT #			
1	CARBONATOR/CO2 ALARM Sistema de carbonatación y alarma de CO2	20	1	GFCI	10.9	F	1.3	1.4			F	11.3	1	20	FOOD PREP TABLE (ISLAND) Mesa para la preparación de alimentos (isla)	2			
3	FOOD PREP TABLE Mesa para la preparación de alimentos	20	1		11.3	F		1.4	1.1		F	9.4	GFCI	1	20	SODA SYSTEM DISPENSER Dispensador para el sistema de refrescos	4		
5	UPRIGHT REFRIGERATOR - 1 DOOR Refrigerador vertical	20	1	GFCI	10.0	F			1.2	1.4	F	12.0	GFCI	1	20	ICE MAKER - UTENSIL COUNTER Máquina para hacer hielo	6		
7	READY-TO-DRINK REFRIGERATOR	20	1	GFCI	8.8	F	1.1	1.0			F	8.5	GFCI	1	20	BUBBLER	8		
9	COLD TOP (SERVE LINE) Tabla fría (línea de servicio)	20	1		12.0	F		1.4	1.0							10			
11	ICE MAKER SANITIZER Desinfectante de la máquina para hacer hielo	20	1	GFCI	1.5	F			0.2	1.0		F	10.0		2	20	CARVING STATION Estación para cortar carnes	12	
13	ICE MAKER Máquina para hacer hielo	20	1	GFCI	16.0	F	1.9	2.1				F	20.0		2	30	HOT FOOD SERVER (SERVE) (2-#10, #10 N., #10 G. in 3/4" C.) Servidor de alimentos	14	
15	GAS WATER HEATER Calentador de agua a gas	20	1	gfcI	5.0	F		0.6	2.1							16			
17	GAS GRIDDLE Plancha de gas	20	1	GFCI	1.5	F			0.2	1.4		F	13.0	GFCI	2	20	TORTILLA PRESS (SERVE LINE) (2-#10, #10 G. in 3/4" C.) Calentador de tortillas	18	
19	GAS FRYER Freidora de gas	20	1	GFCI	0.6	F	0.1	1.4								20			
21	FOOD WARMER (RICE TABLE) Calentador de alimentos (mesa para el arroz)	15	1		1.5	F		0.2	0.3			F	2.6		1	20	REFRIGERATOR (COOK LINE) Refrigerador (línea para cocinar)	22	
23	TORTILLA PRESS (SML) (2-#10, #10 G. in 3/4" C.) Calentador de tortillas (línea del fax)	20	2	GFCI	13.0	F			1.4	0.2	F	1.5	GFCI	1	20	UV INSECT LIGHT TRAP	24		
25							1.4	2.1								26			
27	DISH MACHINE (2-#10, #10 G. in 3/4" C.) Lavavajillas	30	2		25.0	F		2.6	2.1			F	20.0	GFCI	2	30	HOT FOOD SERVER (SML) (2-#10, #10 N., #10 G. in 3/4" C.) Servidor de alimentos calientes (línea de fax)	28	
29									2.6	1.4	F	11.7	GFCI	1	20	FOODWARMER (SML) Calentador de alimentos (línea de fax)	30		
31	UPRIGHT REFRIGERATOR - 1 DOOR Refrigerador vertical	20	1	GFCI	5.0	F	0.6	1.2			F	10.0	GFCI	1	20	COLD TOP (SML) Tabla fría (línea de fax)	32		
33	QUESADILLA MAKER - PUW (2-#10, #10 G. in 3/4" C.)	30	2	GFCI	28.0	F		2.9	0.8							34			
35									2.9	0.8	F	6.5		3	15	CU-1 (3-#10, #10 G. in 3/4" C.)	36		
37	UNDERCOUNTER COOLER (PUW)	20	1	GFCI	1.5	F	0.2	0.8								38			
39	QUESADILLA MAKER - PUW (2-#10, #10 G. in 3/4" C.)	30	2	GFCI	28.0	F		2.9	0.2			F	1.6		1	20	WIC - EVAPORATOR	40	
41									2.9	0.0	F	0.2		1	20	WIC - DOOR	42		
43	SPARE	20	1	--	--		0.0	1.5			F	12.5	GFCI	1	20	ICE MAKER (PUW) Máquina para hace hielo	44		
45	SPARE	20	1	--	--			0.0	0.2		F	1.5	GFCI	1	20	SODA SYSTEM DISPENSER (PUW)	46		
47	SPARE	20	1	--	--				0.0	0.0	--	--		1	20	SPARE	48		
49	SPARE	20	1	--	--		0.0	0.0			--	--		1	20	SPARE	50		
51	SPARE	20	1	--	--			0.0	0.0		--	--		1	20	SPARE	52		
53	SPARE	20	1	--	--				0.0	0.0	--	--		1	20	SPARE	54		
PHASE TOTAL [kVA]:							17.9 kVA	19.8 kVA	17.5 kVA										
PHASE TOTAL [AMPS]:							149 A	165 A	146 A										

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PERMIT SET
01/23/2024

Issue Record:
10/06/2023 LANDLORD REVIEW SET
01/10/2024 PERMIT SET

Revisions:
1 01/22/24 WATER HEATER REVISION

Drawn: CJK
Checked: JEJ

Project No.
2201014

Contents:

ELECTRICAL
SCHEDULES

E600



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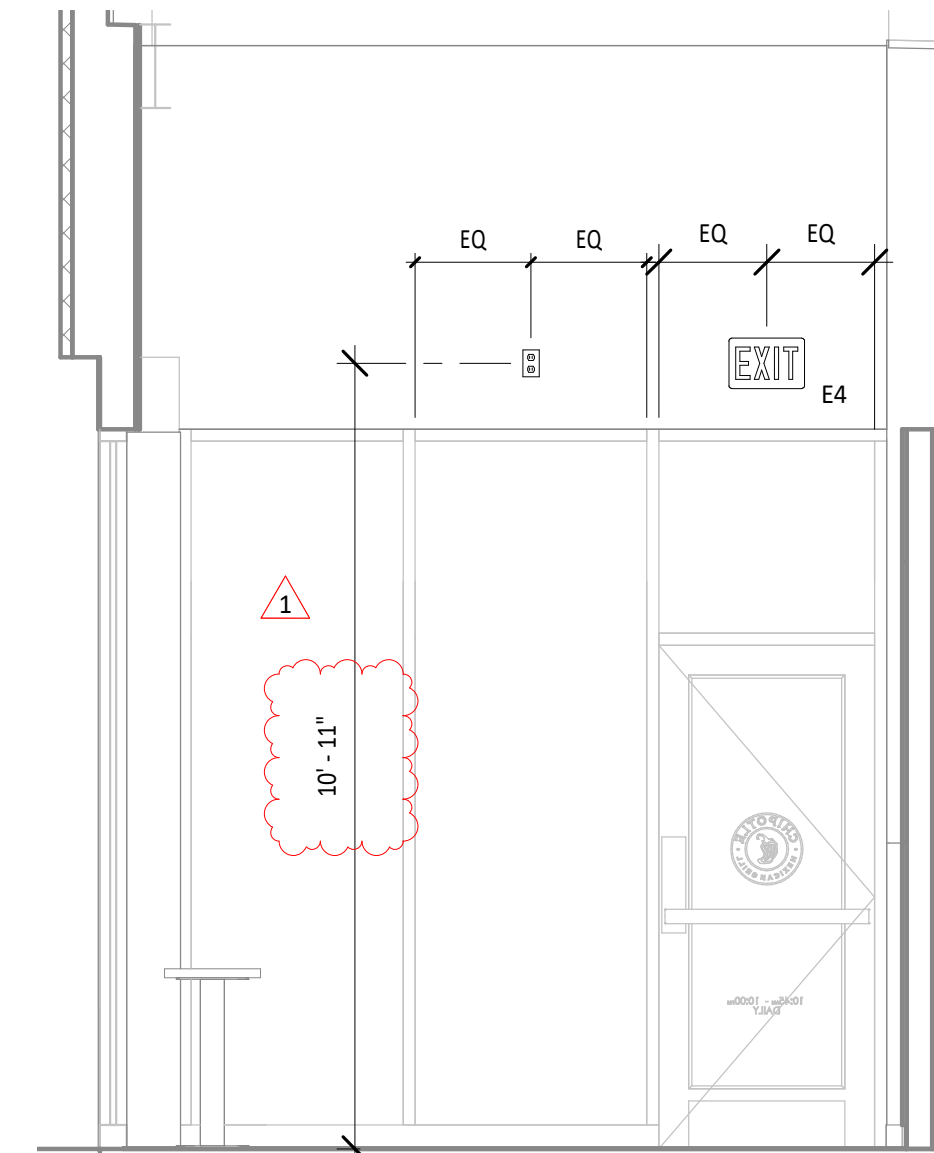
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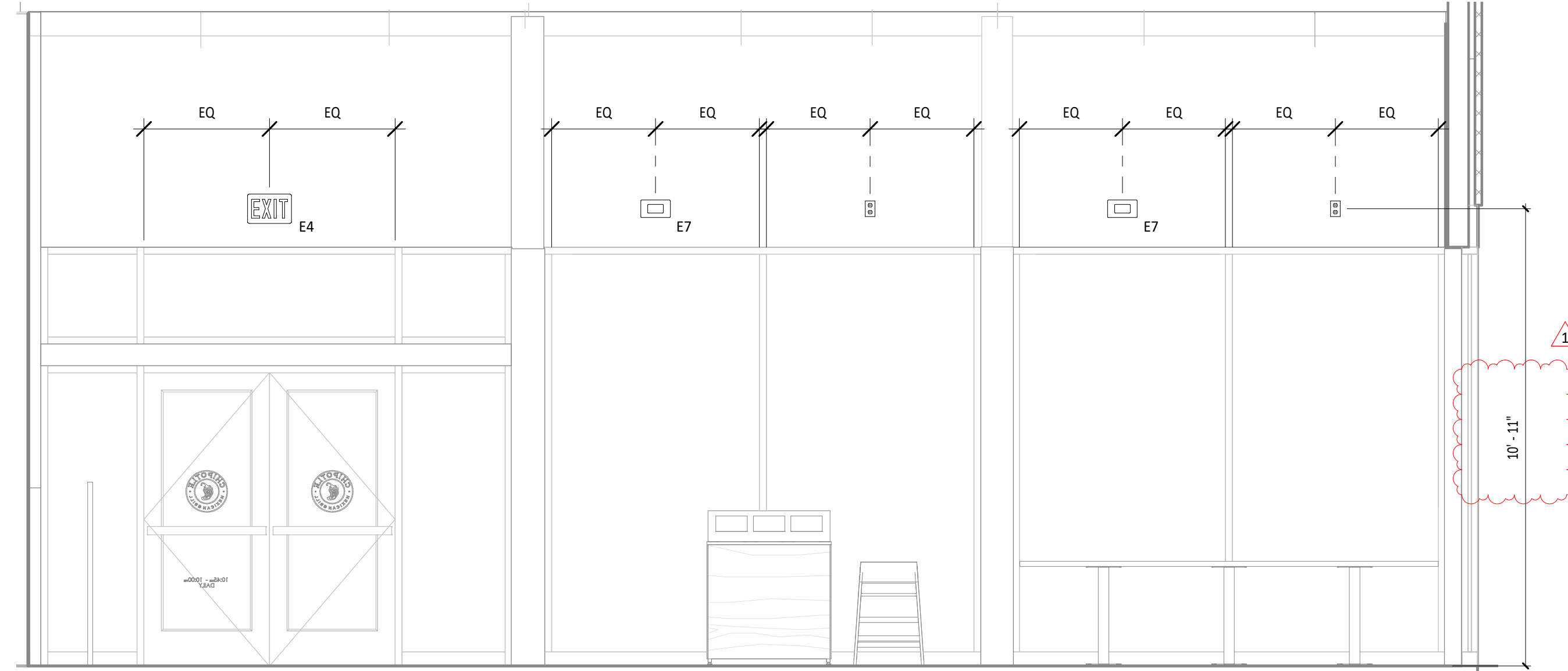
Contents:

ELECTRICAL INTERIOR
ELEVATIONS

E705



2
E705
DINING ROOM ELECTRICAL ELEVATION
3/8" = 1'-0"



1
E705
DINING ROOM ELECTRICAL ELEVATION
3/8" = 1'-0"

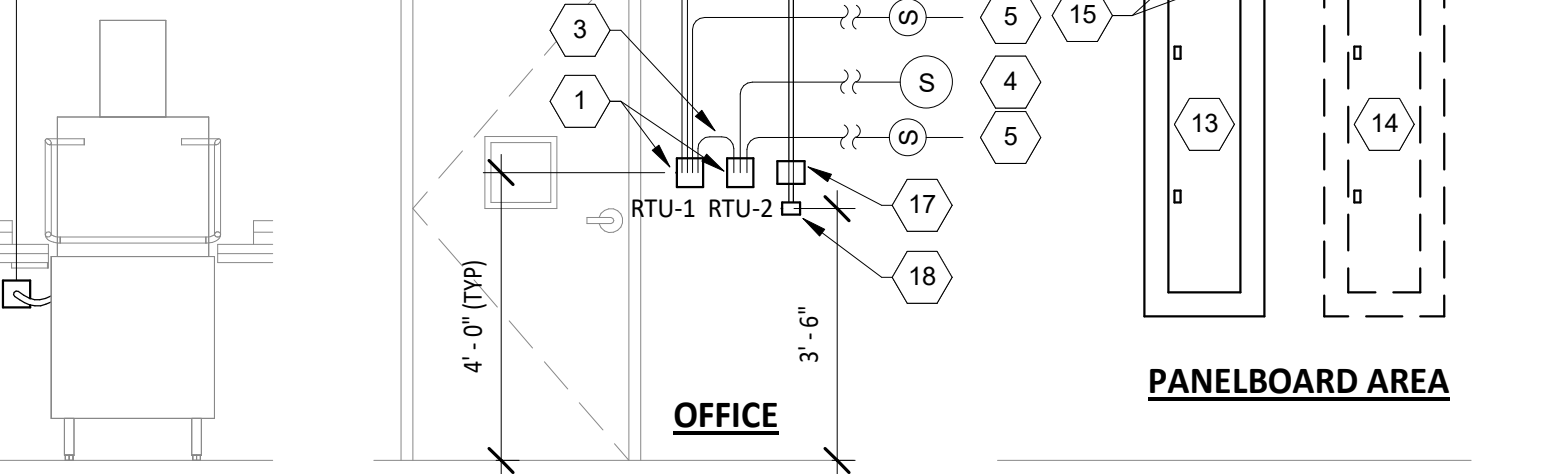
GRIDPOINT DIAGRAM NOTES

1. INSTALL GRIDPOINT THERMOSTATS FURNISHED BY TEMS FOR RTU-1 AND RTU- 2. PROVIDE THERMOSTAT WIRING FROM EACH THERMOSTAT TO THE CORRESPONDING ROOFTOP UNIT.
2. PROVIDE CATSE CABLE FROM RTU-1 THERMOSTAT TO J-BOX #2 ABOVE ELECTRICAL PANELS (LEAVE 16" OF CABLE COILED UP INSIDE OF J-BOX #2 AND 16" BEHIND WALL OF THERMOSTAT FOR FINAL CONNECTION TO THE EMS SYSTEM BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTATS".
3. PROVIDE CATSE CABLE(S) BETWEEN THERMOSTATS (LEAVE 16" OF CABLE BEHIND WALL OF EACH THERMOSTAT FOR FINAL CONNECTION BY THE TEMS) AND LABEL BOTH ENDS OF CABLE "TSTAT JUMPER". SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
4. INSTALL GRIDPOINT ZONE SENSOR MODULES FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM ZSM TO CORRESPONDING THERMOSTAT T1 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
5. INSTALL GRIDPOINT SUPPLY PROBE FURNISHED BY TEMS AS SHOWN ON HVAC FLOOR PLAN. PROVIDE 18G-24G SHIELDED TWISTED PAIR FROM SUPPLY PROBE TO CORRESPONDING THERMOSTAT T2 TERMINALS. SEE GRIDPOINT INSTALLATION INSTRUCTIONS FOR TERMINATION INSTRUCTIONS.
6. PROVIDE 3/4" LIQUIDTIGHT CONDUIT FROM DISH SANITIZING MACHINE TO LOW-VOLTAGE JUNCTION BOX OR TRIM RING FLUSH MOUNTED TO WALL. PROVIDE CONTINUOUS (NOT SPLICED) CATSE CABLE FROM DISH SANITIZING MACHINE TO OFFICE (ABOVE LAY-IN CEILING) WITH 54" SLACK WITHIN THE DISH MACHINE AND 10' SLACK ABOVE THE LAY-IN CEILING. PROVIDE RJ-12 PLUG ON CABLE AT DISH MACHINE END WITH BLUE WIRE CONNECTED TO PIN 3 AND BLUE/WHITE WIRE CONNECTED TO PIN 4. LABEL CABLE ON BOTH ENDS WITH "DISHWASHER".
7. PROVIDE CATS 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.

WARE WASHING



GRIDPOINT WIRING DIAGRAM

8
E710 N.T.S.

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.

CO2 ALARM OPTIONS

CO2 DETECTOR	X
CO2 REMOTE DISPLAY UNIT	X
REMOTE STROBE	
RELAY	

INSTALL STROBE WITH WIRING TO CO2 DETECTOR SEU OR RDU (FURNISHED BY CO2AS) (IF REQUIRED). PROVIDE 3/4" CONDUIT IN WALL FROM STROBE LOCATION TO ABOVE CEILING TO CONCEAL WIRING.

CO2 TANK (BULK TANK OR CANISTERS)
PROVIDE GFCI RECEPTACLE J-BOX ADJACENT TO THE CO2 TANK/BAG-IN-BOX AS SHOWN ON THE ELECTRICAL POWER PLAN.

INSTALL CO2METER RAD-0102-06 CARBON DIOXIDE STORAGE SAFETY ALARM SEU (FURNISHED BY CO2AS) ADJACENT TO THE CO2 TANK/BAG-IN-BOX AS SHOWN.

CONNECT THE SYSTEM POWER TO THE RECEPTACLE AS SHOWN. INSTALL CABLE TO MINIMIZE SLACK AT CO2 DETECTOR. SECURE CABLE TO WALL.

AT SEU J-BOX, INSTALL MOUNTING PLATE TO TOP SCREW HOLE OF J-BOX WITH THE MOUNTING PLATE EXTENDING UP ABOVE THE TOP OF THE J-BOX IN THE ORIENTATION SHOWN.

CO2 ALARM DETAIL

4
E710 N.T.S.

ELECTRICAL CONNECTIONS SHALL BE ON THE OPPOSITE SIDE OF THE DISH MACHINE FROM THE 3-COMP SINK. IF THIS IS ON THE LEFT SIDE OF THE DISH MACHINE THEN LIQUID TIGHT CONDUIT SHALL BE ROUTED BEHIND THE DISH MACHINE TO THE ELECTRICAL CONNECTIONS ON THE RIGHT SIDE OF THE DISH MACHINE..

POWER FOR DISH SANITIZING MACHINE SHALL BE FED FROM A DEDICATED 2-POLE LOCKABLE CIRCUIT BREAKER. PROVIDE FINAL CONNECTION FROM J-BOX IN WALL TO DISH SANITIZING MACHINE USING LIQUIDTIGHT FLEXIBLE METAL CONDUIT.

PROVIDE CONDUITS AND WIRING FOR GRIDPOINT CONNECTION TO DSM AS SHOWN IN DETAIL 8/E710.

DISH SANITIZING MACHINE ELECTRICAL DETAIL

7
E710 N.T.S.

NOTE: EQUIPMENT SHOWN IS
TYPICAL. SEE PLAN FOR ACTUAL
EQUIPMENT AND LOCATIONS.

TERMINATE CONDUITS ABOVE CEILING WITH CONDUIT BUSHINGS. TYPICAL.

PROVIDE CONTINUOUS CATS CABLE WITH RJ45 CONNECTOR ON EACH END FROM THE SEU TO THE RDU AND FROM EACH STROBE TO A SEU/RDU (IF REQUIRED). CATS CABLES SHALL NOT BE SPLICED.

PROVIDE 1" CONDUITS CONCEALED IN WALL FROM SEU AND RDU J-BOX TO ABOVE THE LAY-IN CEILING. ALL CO2 MONITOR CABLING (OTHER THAN THE SEU POWER CABLE) SHALL BE CONCEALED WITHIN CONDUITS.

INSTALL CO2 ALARM RDU (FURNISHED BY CO2AS) AT ENTRANCE TO THE CO2 STORAGE AREA AS SHOWN.

CO2 REMOTE DISPLAY UNIT/J-BOX
48" AFF
PROVIDE JUNCTION BOX AT ENTRANCE TO THE CO2 STORAGE AREA AS SHOWN ON THE ELECTRICAL POWER PLAN.

AT RDU J-BOX, INSTALL MOUNTING PLATE TO TOP SCREW HOLE OF J-BOX WITH THE MOUNTING PLATE EXTENDING DOWN BELOW THE TOP OF THE J-BOX IN THE ORIENTATION SHOWN.

RDU J-BOX

NEMA 5-20P FLANGED INLET (VERIFY THERE IS NOT 120V AT THIS INLET AFTER WIRING AND BEFORE CONNECTING UPS)

120V FROM PANELBOARD

TO BATTERY-PROTECTED RECEPTACLES PER PLANS

TERMINALS L & N (LABELLED "UTILITY INPUT")

TERMINALS 1L & N (LABELLED "UPS INPUT")

TERMINALS 2L & 1N (LABELLED "UPS OUTPUT")

IN OFFICE

UPS POWER CORD

24" ADAPTER CORD

2000 VA UPS

UPS OUTPUT

UPS INPUT

MOUNTED TO WALL

LEGEND

PREWIRED CONDUCTOR

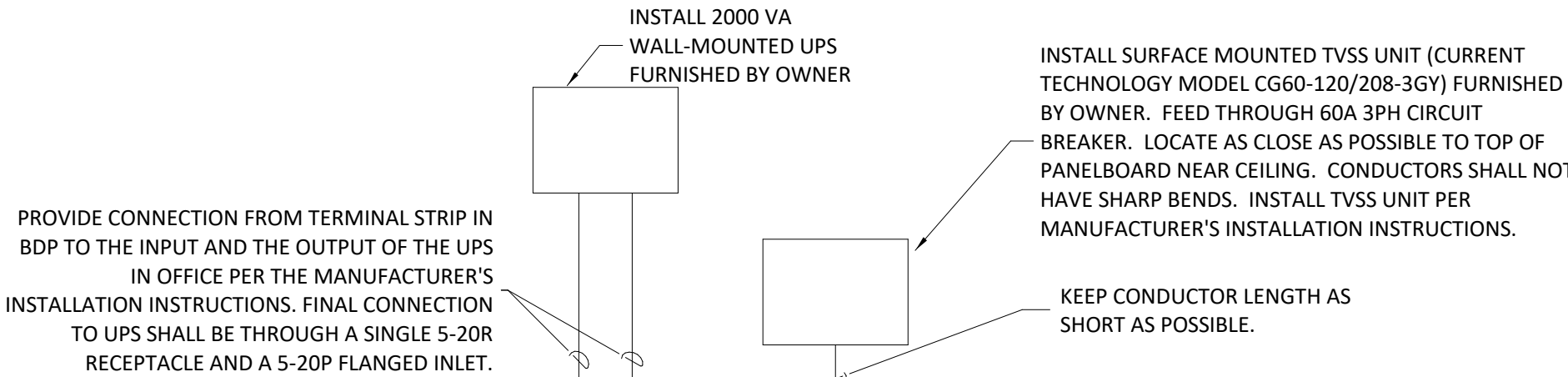
FIELD-WIRED CONDUCTOR

NOTE

REVIEW BDP PANEL INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.

3
E710 N.T.S.

BYPASS DISTRIBUTION PANEL WIRING DIAGRAM



PROVIDE CONNECTION FROM TERMINAL STRIP IN BDP TO THE INPUT AND THE OUTPUT OF THE UPS IN OFFICE PER THE MANUFACTURER'S INSTALLATION INSTRUCTIONS. FINAL CONNECTION TO UPS SHALL BE THROUGH A SINGLE 5-20R RECEPTACLE AND A 5-20P FLANGED INLET.

INSTALL SURFACE MOUNTED TVSS UNIT (CURRENT TECHNOLOGY MODEL CG60-120/208-3GY) FURNISHED BY OWNER. FEED THROUGH 60A 3PH CIRCUIT BREAKER. LOCATE AS CLOSE AS POSSIBLE TO TOP OF PANELBOARD NEAR CEILING. CONDUCTORS SHALL NOT HAVE SHARP BENDS. INSTALL TVSS UNIT PER MANUFACTURER'S INSTALLATION INSTRUCTIONS.

KEEP CONDUCTOR LENGTH AS SHORT AS POSSIBLE.

INSTALL PANELS A AND B FURNISHED BY TPS AND INSTALL PANEL BDP AS SHOWN. CIRCUIT BREAKERS IN PANELS A AND B SHALL HAVE A SERIES COMBINATION RATING OF AT LEAST 65,000 AIC WHEN USED IN SERIES WITH THE 400A MAIN CIRCUIT BREAKER IN PANEL A. PROVIDE THE FOLLOWING MARKING ON THE PANELBOARDS AND THE MAIN CIRCUIT BREAKER:
"CAUTION - SERIES COMBINATION SYSTEM RATED 65,000 AMPERES. IDENTIFIED REPLACEMENT COMPONENTS REQUIRED."

EXISTING PAD-MOUNTED TRANSFORMER WITH 120/208V, 3Ø SECONDARY

EXISTING (4) 500 KCMIL CU IN 4" C.

MAIN DISTRIBUTION DIAGRAM

1
E710 N.T.S.

PROVIDE CONTACTOR IN ACCESSIBLE LOCATION ABOVE LAY-IN CEILING FOR CONTROL OF EXTERIOR LIGHTING AND SIGNAGE

PROVIDE CONTROL CIRCUIT FROM LCP RELAY SHOWN TO CONTACTOR FOR CONTROL OF EXTERIOR LIGHTING/SIGNAGE.

PROVIDE LOW-VOLTAGE WIRING TO FIXTURES CONTROLLED BY 0-10V DIMMING (IF APPLICABLE)

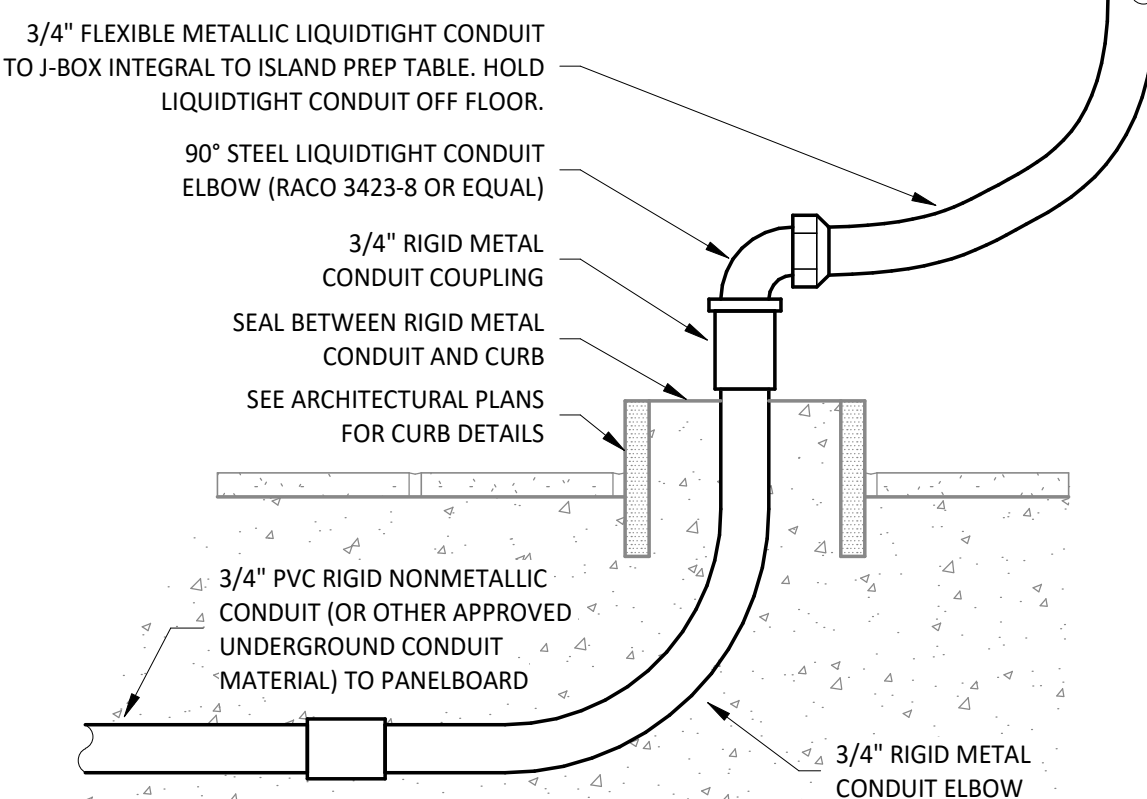
PROVIDE POWER WIRING TO RELAY-CONTROLLED FIXTURES AND DEVICES.

INSTALL ACUITY nLIGHT ARP LIGHTING CONTROL PANEL. SEE SHEET E100 FOR LOCATION.

INSTALL ACUITY nLIGHT 4-CHANNEL SWITCH WITH WHITE BUTTONS, SS PLATE, AND BUTTON ENGRAVING. SEE SHEET E100 FOR LOCATION. ENGRAVING AS FOLLOWS:
CHANNEL 1 ON/OFF: "INT ON"/ "INT OFF"
CHANNEL 2 ON/OFF: "KITCH NORM"/ "KITCH DIM"
CHANNEL 3 ON/OFF: "DINE NORM"/ "DINE DIM"
CHANNEL 4 ON/OFF: "EXT ON"/ "EXT OFF"

INTERIOR LIGHTING CONTROL DIAGRAM

6
E710 N.T.S.



PEDESTAL OUTLET DETAIL

2
E710 N.T.S.

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