

<p>4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.</p> <ul style="list-style-type: none"> a. YKK <ul style="list-style-type: none"> (1.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set b. Oldcastle <ul style="list-style-type: none"> (1.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set c. US Aluminum <ul style="list-style-type: none"> (1.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set d. EFCO <ul style="list-style-type: none"> (1.) Series 403 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal e. Wausau <ul style="list-style-type: none"> (1.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal 	<p>2.2 Materials:</p> <ul style="list-style-type: none"> 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. <p>2.3 Storefront Framing System:</p> <ul style="list-style-type: none"> A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505. <ol style="list-style-type: none"> 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. <p>2.4 Glazing Systems:</p> <ul style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. <ul style="list-style-type: none"> a. Color: Black 2. Weatherseal Sealant: ASTM C 910 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. <ul style="list-style-type: none"> a. Color: Matching structural sealant. 	<p>2.10 Brake Metal Trim:</p> <ul style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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) <p>2.11 Formed Metal Fabrications - General:</p> <ul style="list-style-type: none"> 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. Grain Smooth, polish, and restore damaged finishes to required condition. <ol style="list-style-type: none"> 1. Ease exposed edges to small uniform radius. <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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; <ol style="list-style-type: none"> 1. Thermal Movements: <ol style="list-style-type: none"> 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. <p>2.12 Formed Metal Fabrications - Sheet Metal</p> <ul style="list-style-type: none"> A. Closures, Trim, and Fill Panels: <ol style="list-style-type: none"> 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. <p>2.13 Materials</p> <ul style="list-style-type: none"> 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 [2275] coating, 14 gauge min. thick base material. C. Anchors, Clips, and Accessories: Use one of the following: <ol style="list-style-type: none"> 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 A123/A123M Coating Grade 35 4. Interior locations: Carbon steel, zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5. 5. Exterior Locations or in contact with Stainless Steel: <ol style="list-style-type: none"> 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. <ol style="list-style-type: none"> 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 with 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. <p>2.14 Finishes</p> <ul style="list-style-type: none"> A. Finishes, General: Comply with NAAMM AMP 500-06 <ol style="list-style-type: none"> 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: <ol style="list-style-type: none"> 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. <p>3.1 Examination:</p> <ul style="list-style-type: none"> 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. <ol style="list-style-type: none"> 1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris. 2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening. 3. Metal Surfaces: Dry; clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints. 4. Proceed with installation only after unsatisfactory conditions have been corrected. 	<p>3.2 Installation:</p> <ul style="list-style-type: none"> A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components. B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction. C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction. D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers. E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials. F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements. <p>3.3 Adjusting, Cleaning, and Protection:</p> <ul style="list-style-type: none"> A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging
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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. 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.

- A. Install in accordance with manufacturer's instructions.
- B. Install pass-through 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-through window components weathertight.
- E. Anchor pass-through 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.

1.1 General: Provide door hardware as shown and specified.

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

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.

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 DH1 "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGOS 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.

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.

A. Glass:

- 1. Float Glass (FG): 1/4" thick clear float glass.
- 2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
- 3. Insulating Glass (IGL): 1" thick clear, low-to-tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
 - a. Low-emissivity coating on #2 surface.
 - b. Visible Light Transmittance: 68% - 70%
 - c. Visible Light Reflectance - Outdoors: 3%-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: 0.35-0.39
 - i. Shading Coefficient: 0.43-0.45
- 4. Manufacturers/Products:
 - i. AGC/Comfort Ti-AC40, or similar to meet code
 - ii. Sun Guard/SN-68, or similar to meet code
 - iii. PPG/Isolatan 60, or similar to meet code
 - iv. Viracore/NEI-2M, or similar to meet code
- 5. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: Gray/Black or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
- 6. 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 C1281.
 - 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.

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.

- 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 09 2423 - PORTLAND CEMENT STUCCO

4. GENERAL:
1. SECTION INCLUDES:
 - a. MATERIALS AND INSTALLATION OF EXTERIOR STUCCO WALL COVERING BACKED WITH CONTINUOUS INSULATION, AIR/MOISTURE BARRIER, AND DRAINAGE MAT FOR FRAME WALLS.
 2. RELATED SECTIONS:
 - a. SECTION 03 3000 CAST-IN-PLACE CONCRETE
 - b. SECTION 04 8100 UNIT MASONRY ASSEMBLIES
 - c. SECTION 06 1000 ROUGH CARPENTRY
 - d. SECTION 07 2500 WEATHER BARRIERS
 - e. SECTION 07 2500 WATER-RESISTIVE AIR BARRIER MEMBRANE
 - f. SECTION 07 5400 THERMOPLASTIC MEMBRANE (PVC) ROOFING
 - g. SECTION 07 6000 FLASHING AND SHEET METAL
 - h. SECTION 07 9000 JOINT SEALANTS
 - i. SECTION 08 4110 ALUMINUM FRAMED ENTRANCES & STOREFRONTS
 4. DESIGN REQUIREMENTS:
 - a. STRUCTURAL (WIND AND AXIAL LOADS):
 - i. DESIGN FOR MAXIMUM ALLOWABLE DEFLECTION, CONFORMANCE TO THE PLANE OF THE WALL OF L/360
 - ii. DESIGN FOR WIND LOAD IN CONFORMANCE WITH CODE REQUIREMENTS
 - iii. METAL FRAMING: 38 GAGE (0.043 MIL) OR HEAVIER, MAXIMUM 1-5/8 INCH FLANGE WIDTH, COLD FORMED STEEL STUD FRAMING IN CONFORMANCE WITH AISI STANDARD S200-07
 - iv. MAXIMUM STUD SPACING: 16 INCHES (406 MM) ON CENTER
 - v. SHEATHING: MINIMUM 5/8 INCH (19 MM) GLASS MAT FACED GYPSUM SHEATHING IN CONFORMANCE WITH ASTM C 1317
 - vi. DRAINAGE MAT: MAXIMUM 1/4 INCH (6 MM) THICK TANGLED FILAMENT NYLON CORE WITH FABRIC FACING
 - vii. METAL LATH: MINIMUM 2.5 LB / YD² (1.4 KG / M²) SELF-SURRED GALVANIZED STEEL DIAMOND MESH METAL LATH IN CONFORMANCE WITH C 847
 - viii. LATH FASTENERS AND PLATES: CORROSION RESISTANT FASTENERS IN CONFORMANCE WITH AISI STANDARD S200-2007 AND ASTM C 1513 WITH MINIMUM THREE THREAD PENETRATION BEYOND STEEL FRAMING MEMBERS, AND MINIMUM 1-1/4 INCH (32 MM) CORROSION RESISTANT LATH PLATES, WITH MINIMUM FASTENER SIZE AND LENGTH OF:
 - #8 X 3 INCH (76 MM) FOR 1 INCH (25 MM) INSULATION BOARD THICKNESS
 - #10 X 3-1/2 INCHES (89 MM) FOR 1-1/2 INCH (38 MM) INSULATION BOARD THICKNESS
 - #10 X 4 INCH (102 MM) FOR 2 INCH (51 MM) INSULATION BOARD THICKNESS
 - ix. LATH FASTENER SPACING: MAXIMUM 6 INCHES (152 MM) VERTICALLY ALONG STUDS
 - x. STUCCO: MINIMUM 1/2 INCH (19 MM) OR 7/8 INCH (22 MM) PORTLAND CEMENT STUCCO IN CONFORMANCE WITH ASTM C 926 OF UNIFORM THICKNESS APPLIED IN TWO COATS, SCRATCH AND BROWN COAT.

- b. **MOISTURE CONTROL:**
1. PREVENT THE ACCUMULATION OF WATER INTO OR BEHIND THE STUCCO, EITHER BY CONDENSATION OR LEAKAGE INTO THE WALL CONSTRUCTION, IN THE DESIGN AND DETAILING OF THE WALL ASSEMBLY:
- PROVIDE CORROSION RESISTANT FLASHING TO PROTECT EXPOSED ELEMENTS AND TO DIRECT WATER TO THE EXTERIOR, INCLUDING, ABOVE WINDOW AND DOOR HEADS, BENEATH WINDOW AND DOOR SILLS, AT FLOOR LINES, AT ROOF/WALL INTERSECTIONS, DECKS, ABUTMENTS OF LOWER WALLS WITH HIGHER WALLS, ABOVE PROJECTING FEATURES, AND AT THE BASE OF THE WALL.
 - AIR LEAKAGE PREVENTION—PREVENT EXCESS AIR LEAKAGE IN THE DESIGN AND DETAILING OF THE WALL ASSEMBLY. PROVIDE CONTINUITY BETWEEN AIR BARRIER COMPONENTS IN THE WALL ASSEMBLY.
 - VAPOR DIFFUSION AND CONDENSATION – PERFORM A DEW POINT ANALYSIS OF THE WALL ASSEMBLY TO DETERMINE THE POTENTIAL FOR ACCUMULATION OF MOISTURE IN THE WALL ASSEMBLY AS A RESULT OF WATER VAPOR DIFFUSION AND CONDENSATION. ADJUST WALL ASSEMBLY COMPONENTS ACCORDINGLY TO MINIMIZE THE RISK OF CONDENSATION. AVOID THE USE OF VAPOR RETARDERS ON THE INTERIOR SIDE OF THE WALL IN WARM, HUMID CLIMATES.
 - PROVIDE STOGARD AIR/MOISTURE BARRIER OVER SHEATHING.
 - AT THROUGH WALL EXPANSION JOINTS AND AT JOINTS FORMED WITH BACK-TO-BACK CASING BEADS, BACK JOINTS WITH STOGARD TRANSITION MEMBRANE. REFER TO STU GIDGE DETAILS AT WWW.STOCORP.COM.
 - SEAL STUCCO TERMINATIONS AND ACCESSORY BUTT JOINTS WITH APPROPRIATE SEALANT. SEAL ALL PENETRATIONS THROUGH THE STUCCO WALL ASSEMBLY WITH APPROPRIATE SEALANT, OR BACKER ROD AND SEALANT, AS DICTATED BY JOINT TYPE.

- c. **GRADE CONDITION:**
i. DO NOT SPECIFY STUCCO FOR USE BELOW GRADE OR ON SURFACES SUBJECT TO CONTINUOUS OR INTERMITTENT WATER IMMERSION OR HYDROSTATIC PRESSURE. PROVIDE MINIMUM 4 INCH (100 MM) CLEARANCE ABOVE EARTH GRADE, MINIMUM 2 INCH (51 MM) MINIMUM ABOVE FINISHED GRADE (PAVERS/SIDEWALKS). PROVIDE INCREASED CLEARANCE IN FREEZE/THAW CLIMATE ZONES. SEE BUILDING SECTIONS AND DETAILS.
- d. **SLOPED SURFACES, INCLUDING FOAM TRIM AND PROJECTING ARCHITECTURAL FEATURES ATTACHED TO STUCCO:**
i. AVOID THE USE OF STUCCO ON BUILD-OUTS OR WEATHER EXPOSED SLOPED AND HORIZONTAL SURFACES (REFER TO 2 AND 3 BOLD).
- ii. **BUILD OUT TRIM AND PROJECTING ARCHITECTURAL FEATURES FROM THE STUCCO WALL SURFACE WITH CODE COMPLIANT EPS FOAM.** ALL FOAM TRIM AND PROJECTING ARCHITECTURAL FEATURES MUST HAVE A MINIMUM 1/2 [27"] SLOPE ALONG THEIR TOP SURFACE. ALL FOAM HORIZONTAL REVEALS MUST HAVE A MINIMUM 1/2 [27"] SLOPE ALONG THEIR BOTTOM SURFACE. INCREASE SLOPE FOR NORTHERN CLIMATES TO PREVENT ACCUMULATION OF ICE/SNOW AND WATER ON SURFACE. WHERE TRIM/FEATURE OR BOTTOM SURFACE OF REVEAL PROJECTS MORE THAN 2 INCHES (51 MM) FROM THE FACE OF THE WALL PLANE, PROTECT THE TOP SURFACE WITH WATERPROOF BASE COAT. LIMIT FOAM THICKNESS TO A MAXIMUM OF 4 INCHES (102 MM). PERIODIC INSPECTIONS AND INCREASED MAINTENANCE MAY BE REQUIRED TO MAINTAIN SURFACE INTEGRITY OF FINISHES ON WEATHER EXPOSED SLOPED SURFACES. LIMIT PROJECTING FEATURES TO EASILY ACCESSIBLE AREAS AND LIMIT TOTAL AREA TO FACILITATE MAINTENANCE AND MINIMIZE MAINTENANCE BURDEN. REFER TO STO GUIDE DETAILS AT WWW.STOCCORP.COM
- iii. **DO NOT USE FOAM ON WEATHER EXPOSED PROJECTING LEDGES, SILLS, OR OTHER PROJECTING FEATURES UNLESS SUPPORTED BY FRAMING OR OTHER STRUCTURAL SUPPORT AND PROTECTED WITH METAL COPING OR FLASHING.** REFER TO STO GUIDE DETAILS AT WWW.STOCCORP.COM

- e. JOINTS AND ACCESSORIES:
 - i. PROVIDE TWO PIECE EXPANSION JOINTS IN THE STUCCO SYSTEM WHERE BUILDING MOVEMENT IS ANTICIPATED: SUBSTRATE OR SUPPORTING CONSTRUCTION, WHERE THE SYSTEM IS TO BE INSTALLED OVER DISSIMILAR CONSTRUCTION OR SUBSTRATES, AT CHANGES IN BUILDING HEIGHT, AT FLOOR LINES, AT COLUMNS AND CANTILEVERED WALLS.
 - ii. PROVIDE ONE PIECE EXPANSION JOINTS EVERY 144 FT² (13 M²). CUT AND WIRE THE LATH TO THE EXPANSION JOINT ACCESSORY SO LATH IS DISCONTINUOUS AT OR BENEATH THE ACCESSORY. DO NOT EXCEED LENGTH TO WIDTH RATIO OF 2-1/2:1 IN EXPANSION JOINT LAYOUT AND DO NOT EXCEED MORE THAN 18 FEET (5.5 M) IN ANY DIRECTION WITHOUT AN EXPANSION JOINT. WHERE CASING BEAD IS USED BACK-TO-BACK AS THE EXPANSION JOINT, BACK THE JOINT WITH STUCCO DRAIN TRANSITION MEMBRANE.
 - iii. PROVIDE ONE PIECE EXPANSION JOINTS AT THROUGH WALL PENETRATIONS, FOR EXAMPLE, ABOVE AND BELOW DOORS OR WINDOWS.
 - iv. PROVIDE MINIMUM 3/8 INCH (9 MM) WIDE JOINTS WHERE THE SYSTEM ABUTS WINDOWS, DOORS AND OTHER THROUGH WALL PENETRATIONS.
 - v. PROVIDE APPROPRIATE ACCESSORIES AT STUCCO TERMINATIONS AND JOINTS.
 - vi. AVOID THE USE OF CHANNEL REVEAL ACCESSORIES WHICH CAN INTERFERE WITH PROPER DRAINAGE AND PROPER STRESS RELIEF.
 - vii. PROVIDE APPROPRIATE SEALANT AT STUCCO TERMINATIONS AND AT STUCCO ACCESSORY BUTT JOINTS.
 - viii. INDICATE LOCATION OF JOINTS, ACCESSORIES AND ACCESSORY TYPE ON ARCHITECTURAL DRAWINGS.
- f. FIRE PROTECTION:
 - i. PROVIDE 15 MINUTE THERMAL BARRIER, TYPICALLY MINIMUM 1/2 INCH THICK INTERIOR GYPSUM WALL BOARD, TO SEPARATE FLOOR PLASTIC INSULATION FROM INTERIOR.
 - ii. NONCOMBUSTIBLE TYPE CONSTRUCTION: PROVIDE FULL WIDTH FIRESTOPS AT FLOOR LINES, TYPICALLY 4 PCF (64 KG/M³) SEMI-RIGID MINERAL WOOL, WHERE METAL FRAMING RUNS CONTINUOUSLY PAST FLOOR LINE AND PROVIDE MINIMUM 1/2 INCH (13 MM) STUCCO THICKNESS.
 - iii. FIRE RESISTANCE RATED NON-LOAD BEARING WALL ASSEMBLY: PROVIDE 1/2 OR 7/8 INCH (19 OR 22 MM) UNIFORM STUCCO THICKNESS. REFER TO STG CODE DETAILS FOR ONE HOUR NON-LOAD BEARING FIRE-RESISTIVE RATED WALL ASSEMBLY.
- g. STUCCO THICKNESS DOES NOT INCLUDE PRIMER OR TEXTURED FINISH COAT:
 - i. APPLICATION TO METAL PLASTER BASES: STUCCO THICKNESS SHALL BE UNIFORM 3/8 INCH OR 7/8 INCH (19 OR 22 MM). STUCCO THICKNESS SHALL NOT EXCEED 7/8 INCH (22 MM).
 - ii. STUCCO SHALL BE APPLIED IN 2 COATS, SCRATCH AND BROWN COAT, TO ACHIEVE THE PRESCRIBED THICKNESS.
 - iii. THICKNESS SHALL BE UNIFORM THROUGHOUT THE WALL AREA.

- PERFORMANCE REQUIREMENTS:
- a. CONTINUOUS INSULATION:
- i. COMPLIANT WITH ASTM C 578 TYPE IV REQUIREMENTS
- b. WATERPROOF AIR BARRIER:
- i. COMPLIANT WITH ICC E ACCEPTANCE CRITERIA AC 212 (ICC ESR 1233)
 - ii. MATERIAL AIR LEAKAGE RESISTANCE, ASTM E 2178: LESS THAN 0.02 L/S-M2 (0.00 CFM/FT2 AT 1.57 PSF)
 - iii. ASSEMBLY AIR LEAKAGE RESISTANCE, ASTM E 2137: LESS THAN 0.2 L/S-M2 (0.04 CFM/FT2 AT 1.57 PSF)
 - iv. WATER VAPOR PERMEANCE, ASTM E 96, METHOD B: GREATER THAN 10 PERMS (573 NG/(PA-S-M2))
 - v. SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED, LESS THAN 450, CLASS A BUILDING MATERIAL
- c. TENSILE ADHESION, ASTM C 297:
- GYPSUM SHEATHING, EXCEEDS STRENGTH OF SUBSTRATE
 - PLYWOOD, > 85 PSI (590 KPA)
 - OSB, > 30 PSI (206 KPA)
- d. VOC, CALCULATION:
- LESS THAN 100 G/L
 - COMPLIANT WITH US EPA 40 CFR 59 FOR WATERPROOFING/SEALER
 - COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR WATERPROOFING/SEALER
- e. DRAINAGE MAT:
- i. SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - ii. FLAME PROPAGATION, NFPA 285: MEETS REQUIREMENTS FOR USE ON NONCOMBUSTIBLE (TYPES I,II,III, AND IV) CONSTRUCTION.
- f. STUCCO BASE:
- i. STUCCO SCRATCH AND BROWN COAT MATERIAL IN COMPLIANCE WITH ASTM C 926 AND MANUFACTURED OR LISTED BY TOU CORP. (SEE ADDENDUM)
- g. PRIMERS:
- i. ALKALINE RESISTANT PRIMER FOR FRESHLY PLACED (MINIMUM 4 DAY OLD) STUCCO SURFACES:
 - RESISTANT TO ALKALINE SURFACES WITH PH OF 13 OR LESS
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS
 - ii. ACRYLIC PRIMER FOR FULLY CURED (MINIMUM 28 DAY OLD OR PH LESS THAN 10) STUCCO SURFACES:
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS
- h. FINISHES:
- i. LOTUS-EFFECT TECHNOLOGY FINISH (STOILT LOTUSAN):
 - SUPER-HYDROPHOBIC TEXTURED FINISH WITH LOTUS-EFFECT TECHNOLOGY
 - ACCELERATED WEATHERING, ASTM G 154: 2500 HOURS, NO BLISTERING, CHECKING, CRACKING, CRAZING, OR OTHER DELETERIOUS EFFECTS
 - WATER VAPOR PERMEABILITY, ASTM E 96, METHOD B: > 10 PERMS ([172 NG/(PA-S-M2)])
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS
 - ii. SILICONE ENHANCED ELASTOMERIC FINISH (STO POWERFLEX SILCO):
 - ACCELERATED WEATHERING, ASTM G 154: 2000 HOURS, NO BLISTERING, CHECKING, CRACKING, CRAZING, OR OTHER DELETERIOUS EFFECTS
 - WATER VAPOR PERMEABILITY, ASTM E 96, METHOD B: > 10 PERMS ([574 NG/(PA-S-M2)])
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS
 - iii. ELASTOMERIC FINISH (STO POWERFLEX):
 - ACCELERATED WEATHERING, ASTM G 154: 2000 HOURS, NO BLISTERING, CHECKING, CRACKING, CRAZING, OR OTHER DELETERIOUS EFFECTS
 - WATER VAPOR PERMEABILITY, ASTM E 96, METHOD B: > 5 PERMS ([287 NG/(PA-S-M2)])
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS
 - iv. FLEXIBLE ACRYLIC FINISH (STOPOWERFLEX):
 - ACCELERATED WEATHERING, ASTM G 154: 2000 HOURS, NO BLISTERING, CHECKING, CRACKING, CRAZING, OR OTHER DELETERIOUS EFFECTS
 - WATER VAPOR PERMEABILITY, ASTM E 96, METHOD B: > 15 PERMS ([861 NG/(PA-S-M2)])
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR ARCHITECTURAL COATINGS
 - v. ACRYLIC FINISH (STOILT, STO ESSENCE DPR):
 - ACCELERATED WEATHERING, ASTM G 154: 2000 HOURS, NO BLISTERING, CHECKING, CRACKING, CRAZING, OR OTHER DELETERIOUS EFFECTS
 - WATER VAPOR PERMEABILITY, ASTM E 96, METHOD B: > 30 PERMS ([1722 NG/(PA-S-M2)])
 - SURFACE BURNING, ASTM E 84: FLAME SPREAD LESS THAN 25, SMOKE DEVELOPED LESS THAN 450, CLASS A BUILDING MATERIAL
 - VOC: LESS THAN 50 G/L, COMPLIANT WITH SOUTH COAST AQMD RULE 1113 FOR COATINGS

6. QUALITY ASSURANCE:
- a. MANUFACTURER REQUIREMENTS:
 - i. STUCCO AND AIR BARRIER PRODUCTS MANUFACTURER FOR A MINIMUM OF TWENTY (20) YEARS.
 - ii. STUCCO FINISH PRODUCTS AND AIR/MOISTURE BARRIER PRODUCTS MANUFACTURED UNDER ISO 9001:2008 QUALITY SYSTEM AND 14001:2004 ENVIRONMENTAL MANAGEMENT SYSTEM.
 - b. CONTRACTOR REQUIREMENTS:
 - i. LICENSED, INSURED AND ENGAGED IN APPLICATION OF PORTLAND CEMENT STUCCO FOR A MINIMUM OF THREE (3) YEARS.
 - ii. KNOWLEDGEABLE IN THE PROPER USE AND HANDLING OF STO MATERIALS.
 - iii. EMPLOY SKILLED MECHANICS WHO ARE EXPERIENCED AND KNOWLEDGEABLE IN PORTLAND CEMENT STUCCO APPLICATION, AND FAMILIAR WITH THE REQUIREMENTS OF THE SPECIFIED WORK.
 - iv. SUCCESSFUL COMPLETION OF MINIMUM OF THREE (3) PROJECTS OF SIMILAR SIZE AND COMPLEXITY TO THE SPECIFIED PROJECT.
 - v. PROVIDE THE PROPER EQUIPMENT, MANPOWER AND SUPERVISION ON THE JOB SITE TO INSTALL THE SYSTEM IN COMPLIANCE WITH STO'S PUBLISHED SPECIFICATIONS AND DETAILS AND THE PROJECT PLANS AND SPECIFICATIONS.

- 4. TESTING:**
- i. CONSTRUCT FULL-SCALE MOCK-UP OF TYPICAL STUCCO/WINDOW WALL ASSEMBLY WITH SPECIFIED TOOLS AND MATERIALS AND TEST AIR AND WATER INFILTRATION AND STRUCTURAL PERFORMANCE IN ACCORDANCE WITH ASTM F 283, F 334 AND F 330, RESPECTIVELY, THROUGH INDEPENDENT LABORATORY. MOCK-UP SHALL COMPLY WITH REQUIREMENTS OF PROJECT SPECIFICATIONS. WHERE MOCK-UP IS TESTED AT JOB SITE MAINTAIN APPROVED MOCK-UP AT SITE AS REFERENCE STANDARD. IF TESTED OFF-SITE ACCURATELY RECORD CONSTRUCTION DETAILING AND SEQUENCING OF APPROVED MOCK-UP FOR REPLICATION DURING CONSTRUCTION.
 - ii. CONDUCT AIR BARRIER ADHESION TESTING IN ACCORDANCE WITH ASTM D 4541.
 - iii. CONDUCT AIR BARRIER ASSEMBLY TESTING IN ACCORDANCE WITH ASTM F 783.
 - iv. VERIFY ADEQUACY OF PULL-OUT OR WITHDRAWAL CAPACITY OF FASTENERS USED FOR FRAME CONSTRUCTION WITH MANUFACTURER IN RELATION TO NEGATIVE DESIGN WIND PRESSURES.
 - v. CONDUCT PH TESTING TO CHECK STUCCO SURFACE ALKALINITY BEFORE APPLICATION OF PRIMER OR FINISH MATERIALS. WHERE AALKINE RESISTANT PRIMER IS USED PH TESTING MAY BE WAIVED.
 - vi. CONDUCT WEAT SEALANT ADHESION TESTING IN ACCORDANCE WITH SEALANT MANUFACTURER'S FIELD QUALITY CONTROL TEST PROCEDURE.
 - vii. NOTIFY DESIGN PROFESSIONAL MINIMUM SEVEN (7) DAYS PRIOR TO TESTING.
- d. INSPECTIONS:**
- i. PROVIDE INDEPENDENT THIRD PARTY INSPECTION WHERE REQUIRED BY CODE OR CONTRACT DOCUMENTS.
 - ii. CONDUCT INSPECTIONS IN ACCORDANCE WITH CODE REQUIREMENTS AND CONTRACT DOCUMENTS.
- DELIVERY, STORAGE AND HANDLING:**
- a. DELIVER ALL MATERIALS IN THEIR ORIGINAL SEALED CONTAINERS BEARING MANUFACTURER'S NAME AND IDENTIFICATION OF PRODUCT.
 - b. PROTECT INSULATION MATERIALS FROM PROLONGED UV EXPOSURE, KEEP AWAY FROM SOURCES OF HEAT, SPARKS, FLAME, FLAMMABLE OR VOLATILE MATERIALS. STORE ON A CLEAN, FLAT SURFACE, OFF THE GROUND IN A DRY AREA.
 - c. PROTECT COATINGS (PAINT PRODUCTS) FROM FREEZING AND TEMPERATURES IN EXCESS OF 90°F (32° C). STORE AWAY FROM DIRECT SUNLIGHT.
 - d. PROTECT PORTLAND CEMENT BASED MATERIALS (BAG PRODUCTS) FROM MOISTURE AND HUMIDITY. STORE UNDER COVER OFF THE GROUND IN A DRY LOCATION.
 - e. HANDLE ALL PRODUCTS AS DIRECTED ON LABELING.

- #### 8. PROJECT/SITE CONDITIONS:
- a. MAINTAIN AMBIENT AND SURFACE TEMPERATURES ABOVE 40°F (4°C) DURING APPLICATION AND FOR 24 HOURS AFTER SET OF STUCCO, AND APPLICATION OF WATERPROOF AIR BARRIER AND FINISH MATERIALS.
 - b. PROVIDE SUPPLEMENTARY HEAT FOR INSTALLATION IN TEMPERATURES LESS THAN 40°F (4°C) SUCH THAT MATERIAL TEMPERATURES ARE MAINTAINED AS IN 1.09A. PREVENT CONCENTRATION OF HEAT ON UNCURED STUCCO AND VENT FUMES AND OTHER PRODUCTS OF COMBUSTION TO THE OUTSIDE TO PREVENT CONTACT WITH STUCCO.
 - c. PREVENT UNEVEN OR EXCESSIVE EVAPORATION OF MOISTURE FROM STUCCO DURING HOT, DRY OR WINDY WEATHER. FOR INSTALLATION IN ANY OF THESE CONDITIONS PROVIDE SPECIAL MEASURES TO PROPERLY MOIST CURE THE STUCCO. DO NOT INSTALL STUCCO IF AMBIENT TEMPERATURES ARE EXPECTED TO RISE ABOVE 100°F (38°C) WITHIN A 24 HOUR PERIOD.
 - d. PROVIDE PROTECTION OF SURROUNDING AREAS AND ADJACENT SURFACES FROM APPLICATION OF MATERIALS.
- #### 9. COORDINATION/SCHEDULING:
- a. PROTECT CONTINUOUS INSULATION FROM PROLONGED UV EXPOSURE. PROTECT WITH WALL COVERING WITHIN 60 DAYS OF INSTALLATION.
 - b. PROTECT SHEATHING FROM CLIMATIC CONDITIONS TO PREVENT WEATHER DAMAGE UNTIL THE INSTALLATION OF THE WATERPROOF AIR BARRIER.
 - c. INSTALL DIVERter FLASHINGS WHEREVER WATER CAN ENTER THE WALL ASSEMBLY TO DIRECT WATER TO THE EXTERIOR.
 - d. COORDINATE INSTALLATION OF FOUNDATION WATERPROOFING, ROOFING MEMBRANE, WINDOWS, DOORS AND OTHER WALL PENETRATIONS TO PROVIDE A CONTINUOUS AIR BARRIER AND CONTINUOUS MOISTURE PROTECTION. PROVIDE PROTECTION OF ROUGH OPENINGS BEFORE INSTALLING WINDOWS, DOORS, AND OTHER PENETRATIONS THROUGH THE WALL AND PROVIDE SILL FLASHING. COORDINATE INSTALLATION OF AIR/MOISTURE BARRIER COMPONENTS WITH WINDOW AND DOOR INSTALLATION TO PROVIDE WEATHER PROOFING OF THE STRUCTURE AND TO PREVENT MOISTURE INFILTRATION AND EXCESS AIR INFILTRATION.
 - e. INSTALL WINDOW AND DOOR HEAD FLASHING IMMEDIATELY AFTER WINDOWS AND DOORS ARE INSTALLED.
 - f. PROTECT AIR/MOISTURE BARRIER WITH STUCCO CLADDING WITHIN 180 DAYS OF INSTALLATION.
 - g. PROTECT DRAINAGE MAT WITH STUCCO CLADDING WITHIN 30 DAYS OF INSTALLATION.
 - h. COMMENCE THE STUCCO INSTALLATION AFTER COMPLETION OF ALL FLOOR, ROOF CONSTRUCTION AND OTHER CONSTRUCTION THAT IMPOSES DEAD LOADS ON THE WALLS TO PREVENT EXCESSIVE DEFLECTION (AND POTENTIAL CRACKING) OF THE STUCCO.
 - i. SEQUENCE INTERIOR WORK SUCH AS DRYWALL INSTALLATION PRIOR TO STUCCO INSTALLATION TO PREVENT STUD DISTORTION (AND POTENTIAL CRACKING) OF THE STUCCO.
 - j. PROVIDE SITE GRADING SUCH THAT THE STUCCO TERMINATES ABOVE EARTH GRADE MINIMUM 4 INCHES (100 MM) AND ABOVE FINISHED GRADE (PAVERS/SIDEWALK) MINIMUM 2 INCHES (51 MM). PROVIDE INCREASED CLEARANCE IN FREEZE/THAW CLIMATE ZONES.
 - k. INSTALL COPINGS AND SEALANT IMMEDIATELY AFTER INSTALLATION OF THE STUCCO AND WHEN FINISH COATINGS ARE DRY.
 - l. ATTACH PENETRATIONS THROUGH STUCCO TO STRUCTURAL SUPPORT AND PROVIDE AIR TIGHT AND WATER TIGHT SEALS AT PENETRATIONS.
- #### 10. WARRANTY:
- a. PROVIDE MANUFACTURER'S STANDARD WARRANTY.

- #### 1. MANUFACTURERS:
- a. AIR/MOISTURE BARRIER, DRAINAGE MAT, PORTLAND CEMENT STUCCO, STUCCO PRIMERS, AND STUCCO FINISHES:
- i. STO CORP., 3800 CAMP CREEK PARKWAY, BUILDING 1400, SUITE 120. ATLANTA, GA 30331
- #### 2. AIR/MOISTURE BARRIER:
- a. STUFGUARD – FLUID APPLIED WATERPROOF AIR BARRIER FOR SHEATHING, CONCRETE, AND CONCRETE MASONRY SUBSTRATES CONSISTING OF MULTIPLE COMPATIBLE COMPONENTS:
- i. STO GOLD FILL – READY MIXED ACRYLIC BASED FLEXIBLE JOINT TREATMENT FOR ROUGH OPENING PROTECTION. JOINT TREATMENT WITH WALL SHEATHING, CMU CRACK REPAIR, AND DETAIL COMPONENT FOR SHIPLAP CONNECTIONS WITH FLASHING, WEEP SCREED, AND SIMILAR SHIP LAP DETAILS.
 - ii. STO EMERALDCOAT – READY MIXED FLEXIBLE WATERPROOF COATING FOR WALL SHEATHING, CONCRETE AND CMU WALL SURFACES
 - iii. STUFGUARD MESH – NOMINAL 42 OZ/YD² (142 G/M²), SELF-ADHESIVE, FLEXIBLE, SYMMETRICAL, INTERLACED GLASS FIBER MESH, WITH ALKALINE RESISTANT COATING FOR COMPATIBILITY WITH STO MATERIALS, USED WITH STO GOLD FILL TO REINFORCE ROUGH OPENINGS, INSIDE AND OUTSIDE CORNERS, SHEATHING JOINTS, AND SHIPLAP CONNECTIONS WITH FLASHING, WEEP SCREED, AND SIMILAR SHIP LAP DETAILS
 - iv. STUFGUARD FABRIC – NONWOVEN CLOTH REINFORCEMENT USED WITH STO EMERALDCOAT FOR ROUGH OPENING PROTECTION, JOINT TREATMENT OF WALL SHEATHING, AND DETAIL COMPONENT FOR SHIPLAP CONNECTIONS WITH FLASHING, WEEP SCREED, AND SIMILAR SHIP LAP DETAILS
 - v. STUFGUARD REDCORNER – A PRE-FORMED FABRIC PIECE USED IN THE CORNERS OF ROUGH OPENINGS IN TANDEM WITH STUFGUARD FABRIC FOR QUICKER INSTALLATION
 - vi. STUFGUARD TAPE – SELF ADHERING RUBBERIZED ASPHALT TAPE FOR ROUGH OPENING PROTECTION IN WOOD OR METAL FRAME CONSTRUCTION
 - vii. STUFGUARD PRIMER – PRIMER FOR USE WITH STUFGUARD TAPE
 - viii. STUFGUARD TRANSITION MEMBRANE – FLEXIBLE AIR BARRIER MEMBRANE FOR CONTINUITY AT TRANSITIONS: SHEATHING TO FOUNDATION, DISSIMILAR MATERIALS (CMU TO FRAME WALL), WALL TO BALCONY FLOOR SLAB OR CEILING, FLASHING SHINGLE LAP TRANSITIONS, FLOOR LINE DEFLECTION JOINTS, MASONRY CONTROL JOINTS, AND THROUGH WALL JOINTS IN MASONRY OR FRAME CONSTRUCTION.
 - ix. STUFGUARD RAPIDSEAL – ONE COMPONENT QUICK DRYING WATERPROOF AIR BARRIER MATERIAL FOR ROUGH OPENING PROTECTION, SHEATHING JOINTS (WITH STUFGUARD MESH), CMU CRACK REPAIR, AND FOR SEALING FISH MOUTHS, WRINKLES, SEAMS, GAPS, HOLES, OR OTHER VOIDS IN STUFGUARD AIR BARRIER MATERIALS
 - x. STUFGUARD RAPIDFILL – ONE COMPONENT RAPID DRYING GUN-APPLIED JOINT TREATMENT FOR SHEATHING. ALSO USED AT STATIC TRANSITION JOINTS OR SEAMS IN CONSTRUCTION AND TO SEAL FISH MOUTHS, WRINKLES, SEAMS, GAPS, HOLES, OR OTHER VOIDS IN STUFGUARD AIR BARRIER MATERIALS. ALSO USED AS A DETAIL COMPONENT FOR SHIPLAP CONNECTIONS TO FLASHING, WEEP SCREED, AND SIMILAR SHIP LAP DETAILS.
- #### 3. WATER-RESISTANT BARRIER (SUPPLIED BY OTHERS):
- a. MINIMUM NO. 15 ASPHALT SATURATED FELT COMPLYING WITH ASTM D 226, TYPE 1, OR ONE LAYER OF GRADE D KRAFT BUILDING PAPER, OR PAPER-BACKED STUCCO LATH CONFORMING TO 2.07.
- #### 4. DRAINAGE MAT:
- a. STO DRAINSCREEN – NOMINAL 3/4" (6 MM) TANGLED FILAMENT NYLON CORE DRAINAGE MAT WITH FABRIC FACING.



TO THE BEST OF THE KNOWLEDGE
OF THE ARCHITECTS AND
ENGINEERS, SAID PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING
CODES AND THE APPLICABLE
MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0015323
seal

[illegible]

CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

ARCHITECTURAL SPECIFICATIONS

G014

7. LATH (SUPPLIED BY OTHERS):
- a. MINIMUM 2.5 LB./YD2 (1.4 KG/M2) SELF-FURRED GALVANIZED STEEL DIAMOND MESH METAL LATH IN COMPLIANCE WITH ASTM C 847
- NOTE: METAL LATH IS SUSCEPTIBLE TO CORROSION IN COASTAL ENVIRONMENTS. PROVIDE WEATHER PROTECTION TO PREVENT MOISTURE ENTRY INTO WALL CONSTRUCTION AS OUTLINED IN DESIGN REQUIREMENTS SECTION 1.04B. CONSIDER THE USE OF STAINLESS STEEL LATH FOR COASTAL ENVIRONMENTS. EXERCISE CARE WHEN ATTACHING METAL LATH AND ACCESSORIES THROUGH THE WATER-RESISTIVE BARRIER SO THAT FASTENERS GO INTO [NOT BETWEEN] FRAMING SUPPORTS. DO NOT USE POWER, POWDER-ACTUATED OR OTHER FASTENING TOOLS/METHODS THAT CAN DAMAGE THE AIR BARRIER, WATER-RESISTIVE BARRIER OR SUBSTRATE.
8. MECHANICAL FASTENERS FOR METAL LATH (SUPPLIED BY OTHERS):
- a. NON-CORRODING FASTENERS IN COMPLIANCE WITH AISI S200 – 2007 AND ASTM C 1513:
- i. WOOD FRAMING—MINIMUM #10 TYPE 5 WATER HEAD FULLY THREADED CORROSION RESISTANT SCREWS WITH MINIMUM 1 INCH (25 MM) PENETRATION INTO STUDS.
- ii. STEEL FRAMING— CORROSION RESISTANT FASTENERS AND PLATES WITH MINIMUM THREE THREAD PENETRATION BEYOND STEEL FRAMING MEMBERS, AND WITH MINIMUM FASTENER SIZE AND LENGTH OF:
- #8 X 3 INCH (76 MM) FOR 1 INCH (25 MM) INSULATION BOARD THICKNESS
 - #10 X 3-1/2 INCHES (89 MM) FOR 1-1/2 INCH (38 MM) INSULATION BOARD THICKNESS
 - #10 X 4 INCH (102 MM) FOR 2 INCH (51 MM) INSULATION BOARD THICKNESS
- NOTE: PULL-OUT OR WITHDRAWAL CAPACITY OF THE SELECTED FASTENER MUST BE VERIFIED WITH RESPECT TO ANTICIPATED WIND LOAD, DESIRED SAFETY FACTOR AND BUILDING CODE REQUIREMENTS. CONSULT APPLICABLE CODE COMPLIANCE REPORT FOR SPECIFIC ASSEMBLIES AND FASTENING SCHEDULES OR CONDUCT PROJECT SPECIFIC TESTING TO VERIFY COMPLIANCE WITH DESIGN WIND PRESSURE REQUIREMENTS.
- b. TIE WIRE—18 GAUGE GALVANIZED AND ANNEALED LOW-CARBON STEEL IN COMPLIANCE WITH ASTM A 641 WITH CLASS I COATING.
9. ACCESSORIES (SUPPLIED BY OTHERS):
- a. WEEP SCREED, CASING BEAD, CORNER BEAD, CORNER LATH, EXPANSION AND CONTROL JOINT ACCESSORIES. ALL ACCESSORIES SHALL MEET THE REQUIREMENTS OF ASTM C 1063 AND ITS REFERENCED DOCUMENTS
- i. PVC PLASTIC IN COMPLIANCE WITH ASTM D 1784, CELL CLASSIFICATION 13244C.
- ii. ZINC IN COMPLIANCE WITH ASTM B 69.
- iii. GALVANIZED METAL IN COMPLIANCE WITH ASTM A 653 WITH G60 COATING.
- b. ALL ACCESSORIES SHALL HAVE PERFORATED OR EXPANDED FLANGES AND SHALL BE DESIGNED WITH GROUNDS FOR THE SPECIFIED THICKNESS OF STUCCO.
- NOTE: METAL ACCESSORIES ARE SUSCEPTIBLE TO CORROSION IN COASTAL ENVIRONMENTS. CONSIDER THE USE OF ZINC ALLOY OR PVC ACCESSORIES IN THESE ENVIRONMENTS. METAL CORNER BEADS WITH SOLID METAL NOSSES ARE SUSCEPTIBLE TO CORROSION IN EXPOSED EXTERIOR APPLICATIONS. CONSIDER THE USE OF SEVERAL LAYERS OF WOVEN-WIRE MESH OR OTHER CORNER ACCESSORIES IN LIEU OF CORNER BEAD AND COMPLETELY ENCASE THE METAL IN STUCCO. CARE MUST BE TAKEN WHEN ATTACHING METAL LATH OR OTHER WALL ASSEMBLY COMPONENTS SO THAT FASTENERS GO INTO [NOT BETWEEN] FRAMING SUPPORTS. POWDER ACTUATED OR OTHER FASTENING DEVICES THAT CAN DAMAGE THE WATER-RESISTIVE BARRIER, SHEATHING, OR CI SHOULD BE AVOIDED. CAUTION: AVOID THE USE OF CHANNEL REVEAL ACCESSORIES THAT INTERFERE WITH PROPER DRAINAGE AND STRESS RELIEF.
10. JOB MIXED INGREDIENTS (SUPPLIED BY OTHERS):
- a. WATER: CLEAN AND POTABLE.
- b. SAND: IN COMPLIANCE WITH ASTM C 897 OR C 144, FOR USE WITH ONE COAT AND C 926 STUCCO CONCENTRATES
11. STUCCO:
- a. 102 STOPPOWERWALL STUCCO PRE-BLENDED: FIBER REINFORCED ONE COAT PORTLAND CEMENT STUCCO PRE-BLENDED WITH GRADED SAND, AND IN COMPLIANCE WITH ICC

DIVISION 9 – FINISHES

NOT USED
9.0200 - PLASTER AND GYPSUM BOARD SYSTEMS

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

- A. Standards: Materials and installation shall conform to the following:
- GA 214-90 "Levels of Gypsum Board Finish."
 - GA-216 "Specifications for Application and Finishing of Gypsum Board."
 - 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.
- Partition metal framing:
 - Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
 - 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.
 - Ceiling and Soffit metal framing/suspension systems:
 - Small areas: Metal stud framing of appropriate size and gage for spans indicated.
 - Large areas: Furring channel "Grillage" or "Direct Suspension System" designed for concealed support of gypsum board ceilings, of proper type for use indicated.
 - Furring members: 20 gage, galvanized steel screw type, hat-shaped furring.
 - 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.
 - General use panels: Sheetrock Regular panels.
 - Fire rated panels: Sheetrock Firecode Core panels.
 - Water-resistant: panels: Sheetrock HUMITEX panels.
 - 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.
 - 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.
 - Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 2008 casing bead metal trim, No. 093 Control Joint.
 - Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.
 - Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.
 - Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.
 - 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.
- Ceiling suspension/ support systems: Metal furring system/direct suspension or steel stud framing system.
 - Wall and partition framing:
 - 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.
 - 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.
 - Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
 - 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.
 - 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."
 - Screw fasten all gypsum board panels.
 - 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.
 - Control Joints: Locate and install control joints in accordance with USG Bulletin SA923 "Good Design Practice" recommendations.

- C. Acoustical Treatment:

- 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.
 - 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.
 - At openings and cutouts, fill open spaces between pieces of gypsum board and fixtures, cabinets, ducts, and other flush or penetrating items, with continuous bead of acoustical sealant.
 - Seal sides and backs of electrical boxes to completely close up openings and joints with a bead of acoustical treatment.
- D. Finishing:
- 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.
 - Apply joint tape at joints between gypsum boards, except where trim accessories are indicated.
 - Interior Exposed Gypsum Board Finish: Level 5 Finish.
 - Locations: Typical for all walls and ceilings, unless otherwise indicated
 - 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:
 - Embedding and First Coat: Setting-type joint or taping compound.
 - Fill (Second) Coat: Setting-type topping compound.
 - Fill (Third) Coat: Setting-type topping compound.
 - Finish (Fourth) Coat: Skim coat entire surface.
 - Interior Concealed Gypsum Board: Level 3 Partial Finishing.
 - 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 09900 - PAINTS AND COATINGS

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

- A. Provide surface preparation, prime, intermediate and finish coatings for interior and exterior and existing scheduled surfaces and items.
- B. Provide Tenant-selected finishes and colors for all exposed surfaces, unless otherwise indicated.

- 1.2 Related Documents:

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

- 1.3 Summary:

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

- 1.4 Quality Assurance:

- A. Applicator Qualifications: Engage an experienced applicator that has completed painting system applications similar in material and extent to that indicated for this Project with a record of successful in-service performance.
- B. Source Limitations: Obtain block fillers, primers and undercoat materials for each coating system from the same manufacturer as the finish coats.
- C. Provide lead free prime and finish coatings. All top coatings shall be mold and mildew resistant.

- 1.5 Delivery, Storage and Handling:

- A. Deliver materials to the Project Site in manufacturer's original, unopened packages and containers bearing manufacturer's name and label, and the following information:
- Product name or title of material.
 - Product description (generic classification or binder type).
 - Manufacturer's stock number and date of manufacture.
 - Contents by volume, for pigment and vehicle constituents.
 - Thinning instructions.
 - Application instructions.
 - Color name and number.
 - VOC content
- B. Store materials not in use in tightly covered containers in a well-ventilated area at a minimum ambient temperature of 45 degrees F (7 degrees C). Maintain containers used in storage in a clean condition, free of foreign materials and residue.
- Protect from freezing. Keep storage area neat and orderly. Remove oily rags and waste daily. Take necessary measures to ensure that workers and work areas are protected from fire and health hazards resulting from handling, mixing and application.

- 1.6 Project Conditions

- A. Apply water-based paints only when the temperatures of surfaces to be painted and surrounding air temperatures are between 50 and 90 degrees F (10 and 32 degrees C) unless otherwise stated on the technical data bulletin.
- B. Apply solvent-thinned paints only when the temperature of surfaces to be painted and surrounding air temperatures are between 45 and 95 degrees F (7.2 and 35 degrees C).
- C. Do not apply paint in snow, rain, fog, or mist, or when the relative humidity exceeds 85 percent, or at temperatures less than 5 degrees F (3 degrees C) above the dew point, or on damp or wet surfaces.
- Painting may continue during inclement weather if surfaces and areas to be painted are enclosed and heated within temperature limits specified by manufacturer during application and drying periods.

- 2.1 Manufacturers:

- A. Products: Subject to compliance with requirements, provide one of the products in the paint schedules.
- B. Manufacturers Names: The following manufacturer is referred to in the paint schedule by use of shortened versions of the name, which is shown below:
- PPG Industries, Inc.
 - Materials - No substitutions allowed.

- 2.2 Paint Materials, General

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

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

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

- C. Exterior Coatings:

Exterior Ferrous Metals:

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

Exterior and Interior Gas Piping:

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

Exterior Patio Railing:

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

Exterior Prefinished Metal Wall Panels:

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

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

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

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

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

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

Exterior Galvanized Metal:

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

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

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

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

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

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

Exterior CMU Primer:

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

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

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

- Application: Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

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

Exterior Wood:

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

- D. Interior Coatings:

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

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

- Shop Preparation: Scuff sand between coats.

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

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

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

Exterior Traffic Safety Marking:

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

For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

- Owner Option 1:
- Finish: (1) coat PPG; A-28868 Type II, White Zone Marking - Applied at a dry film thickness of not less than 8.6 mils.

- Owner Option 2:
- Finish: (1) coat PPG; A-28868 Type II, Yellow Zone Marking - Applied at a dry film thickness of not less than 8.6 mils

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

- Airless Spray: Pressure 2000 psi, tip .0131" - 0.021"Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coating s into the skin by airless equipment may cau: serious injury.
- Brush: Polyester/Nylon Brush
- Roller: All-purpose nap roller cover.

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

WHERE	WHAT	COLOR	SHEEN	FINISH TAG
Exterior Traffic Safety Marking	PPG A-28868 Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-28868 Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior CMU Primer	PPG Speedhide Interior/Exterior Masonry Hi Fill Latex Block Filler	White	Flat	N/A
Exterior CMU	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Ferrous Metals	PPG Pitt-Tech Plus Semi-Gloss Acrylic Finish 4216 Plus HP Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Wood	PPG Manor Hall Acrylic Semi-Gloss 70-501 Series or PPG Acri-Shield Acrylic Semi-Gloss PP649 Series	PPG 1001-6 "Knight's Armor"	Semi-Gloss	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1001-6 "Knight's Armor"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1010-2 "Fog"	Flat	N/A
Exterior Stucco and EIFS Patio and Wet Areas	PPG Perma-Crete High Build Acrylic Topcoat 4-22 Series	PPG 1058-7 "Autumn Ridge"	Flat	N/A

- 3.1 Installation:

- A. Examination:
- Verify that site environmental conditions are appropriate for application of coatings specified.
 - Immediately prior to coating application, ensure that surfaces to receive coatings are dry.
 - Ensure that moisture-retaining substrates to receive coatings have moisture content within tolerances allowed by coating manufacturer, using moisture measurement techniques recommended by coating manufacturer.
 - Immediately prior to coating application, examine surfaces to receive coatings for surface imperfections and for contaminants which could impair performance or appearance of coatings, including but not limited to, loose primer, rust, scale, oil, grease, mildew, algae, or fungus, stains or marks, cracks, indentations, or abrasions.
 - Correct the above conditions and any other conditions which could impair performance or appearance of coatings in accordance with specified surface preparation procedures before proceeding with coating application.
- B. Preparation:
- Do not start work until surfaces to be finished are in proper condition to produce finished surfaces of uniform, satisfactory appearance.
 - Stains and Marks: Remove completely, if possible, using materials and methods recommended by coating manufacturer; seal with shellac or other coating acceptable to paint manufacturer stains and marks that might bleed through paint finishes which cannot be completely removed.
 - Remove or protect hardware, electrical plates, mechanical grilles and louvers, lighting fixture trim, and other items not indicated to receive coatings which are adjacent to surfaces to receive coatings.
 - Remove mildew from impervious surfaces by scrubbing with solution of disodium phosphate and bleach. Rinse with clean water and allow substrate to thoroughly dry.
 - For specific substrate preparation, see individual specifications.
 - Provide necessary staging, ladders, shield, protective coverings and drop cloths. Protect floors, walls and adjacent work and materials. Remove and properly replace temporary protection and coverings removed from any part of the work or finish. Repair damage at Contractor's expense.



3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-6443

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0015323
seal

revision descriptions	date	no.

CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

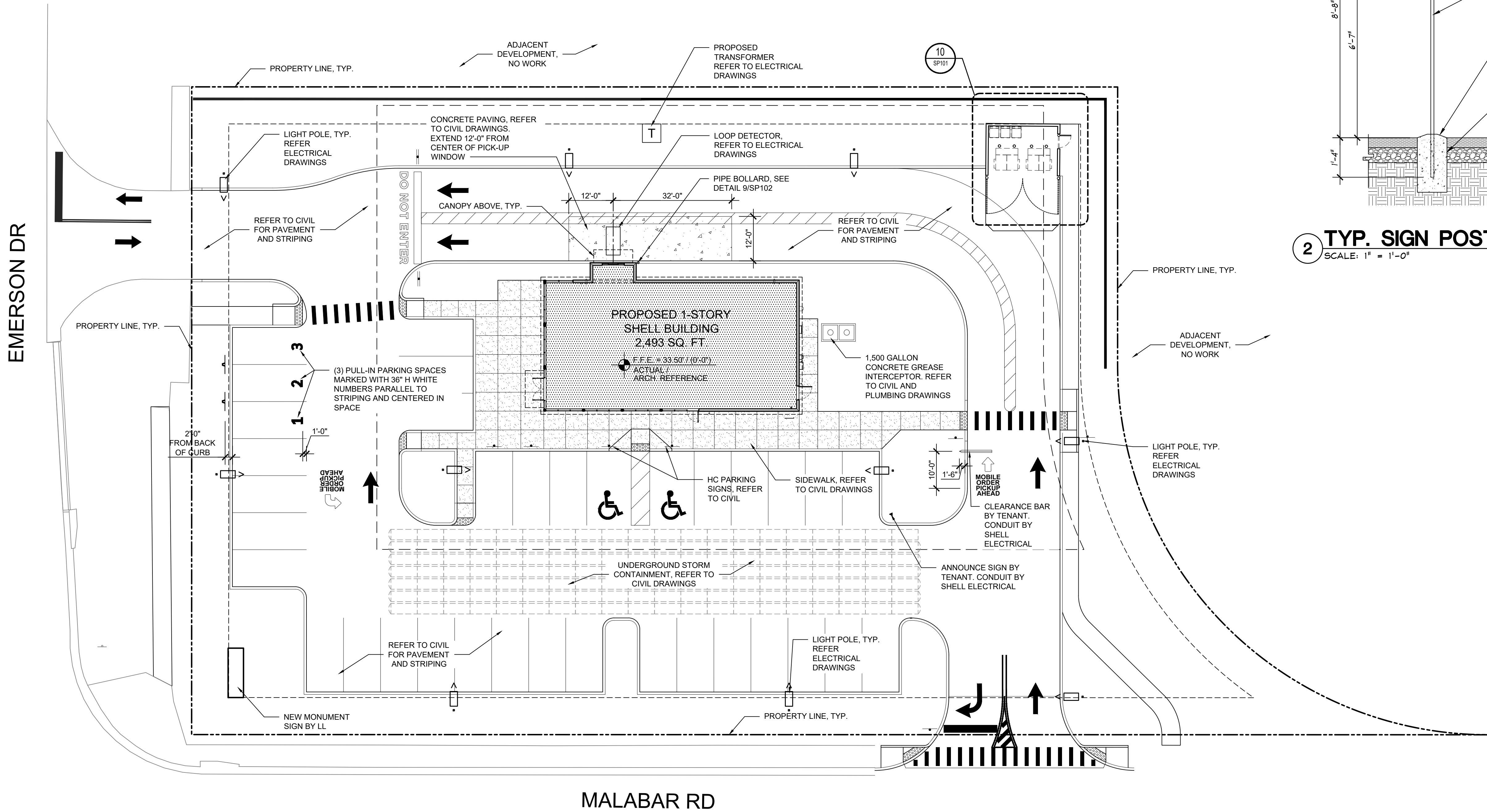
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ARCHITECTURAL
SPECIFICATIONS

G015

G016

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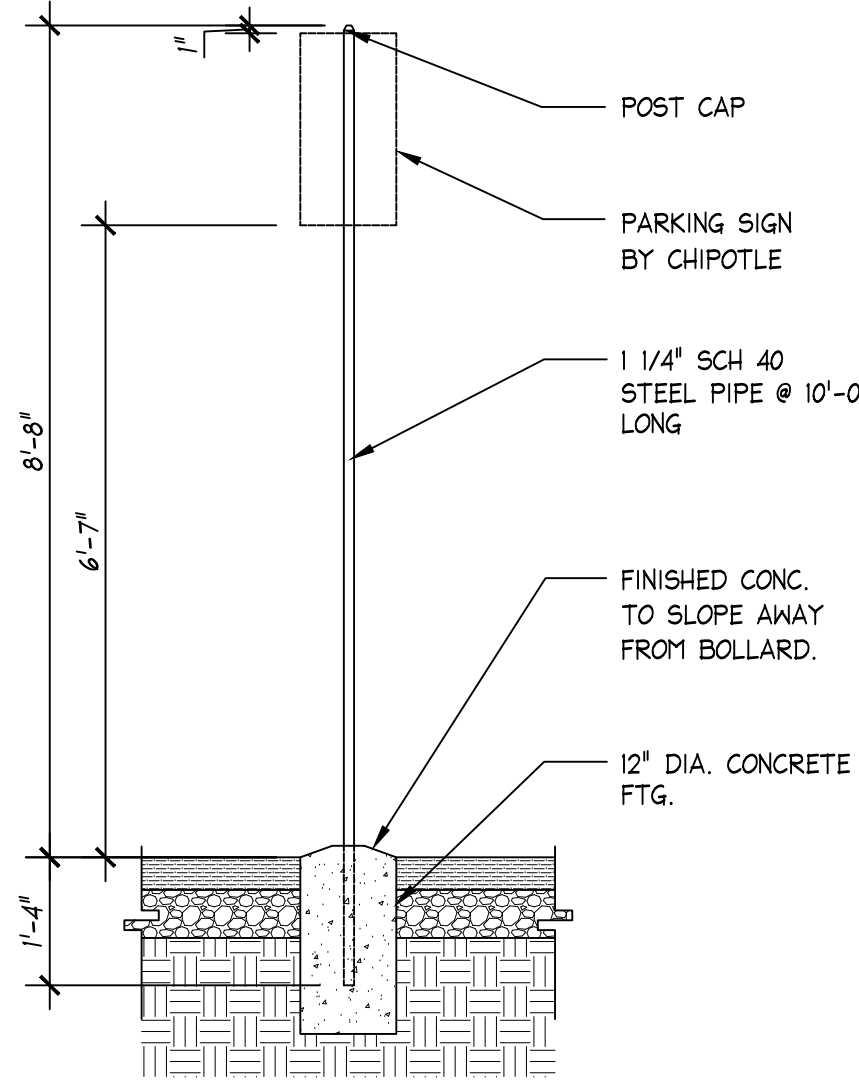


1 ARCHITECTURAL SITE PLAN
SCALE: 1/16" = 1'-0"

GENERAL NOTES

STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT
STENCIL COMPANY, PHONE: (800) 250-5547, EMAIL:
STENCILS@PAVEMENTSTENCIL.COM

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.



2 TYP. SIGN POST DETAIL
SCALE: 1" = 1'-0"



3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-8443

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no.	date	revision descriptions

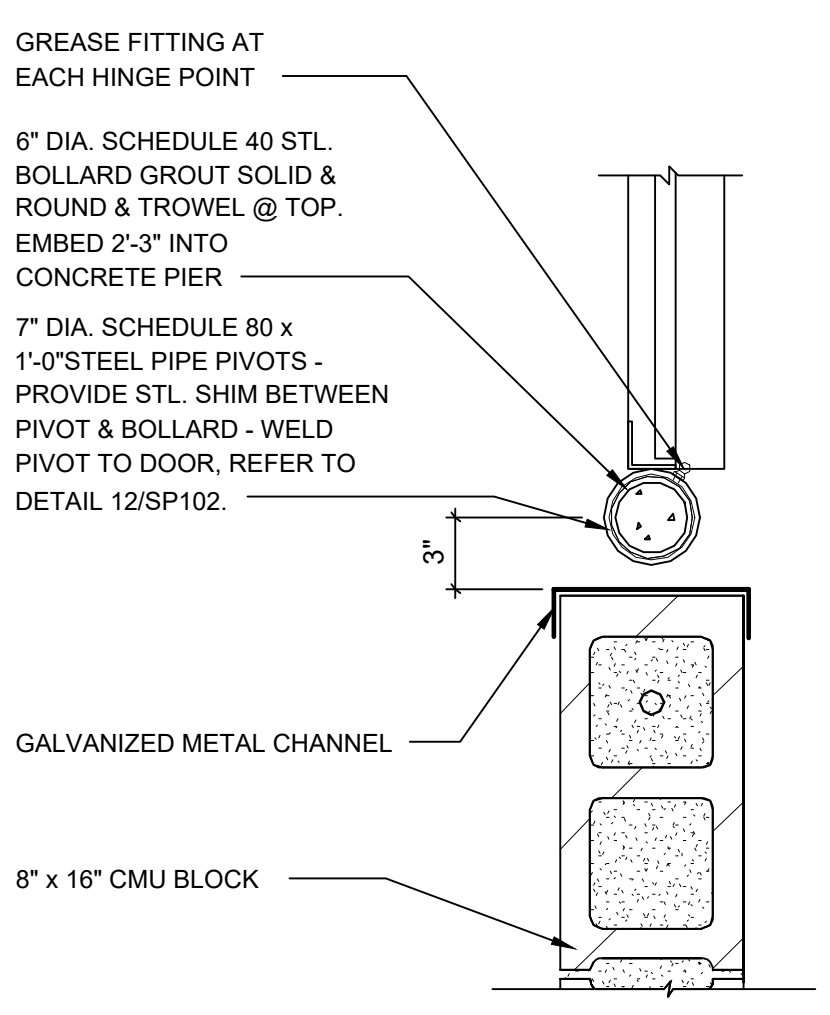
CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

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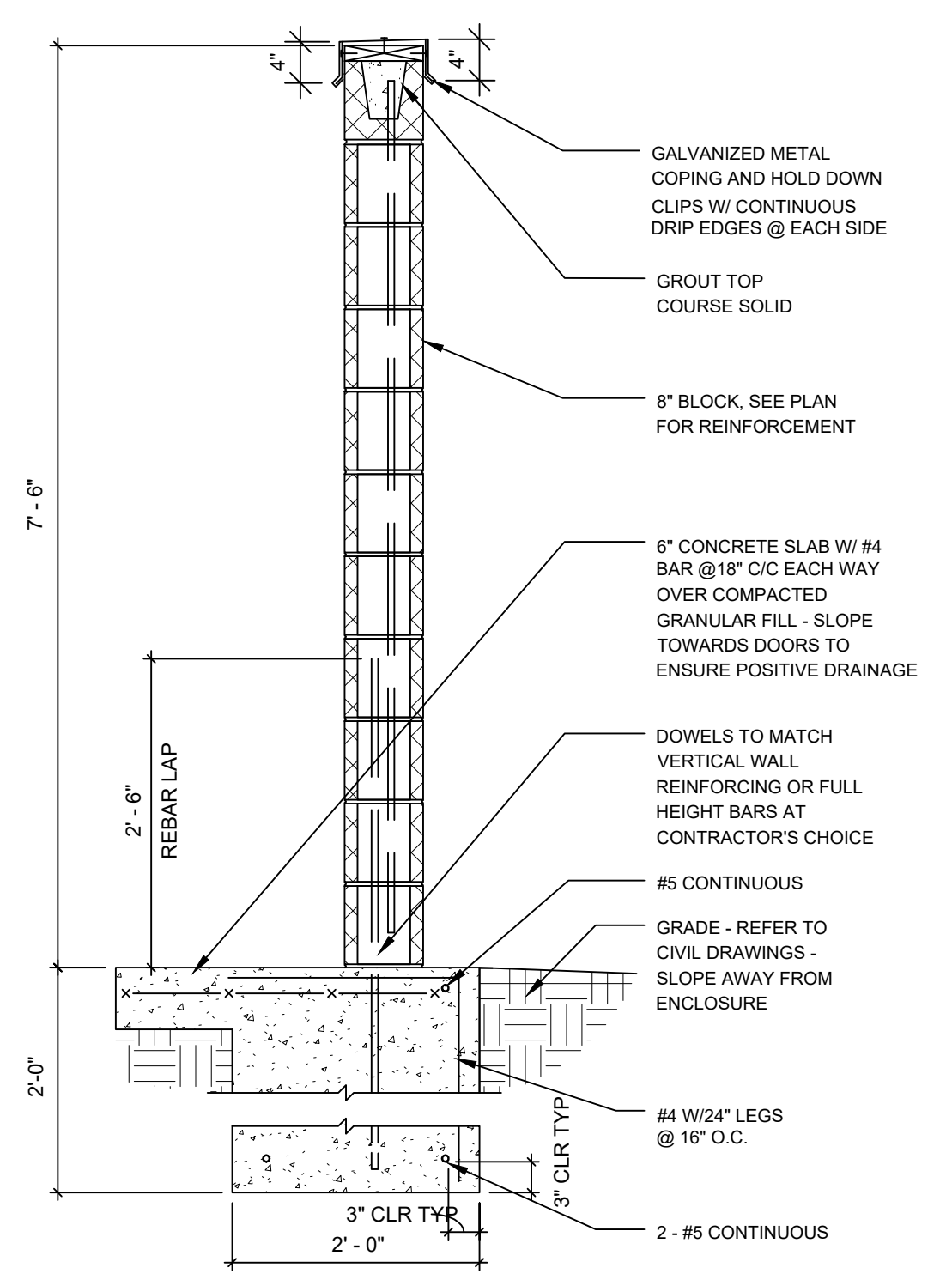
ARCHITECTURAL
SITE PLAN

SP100

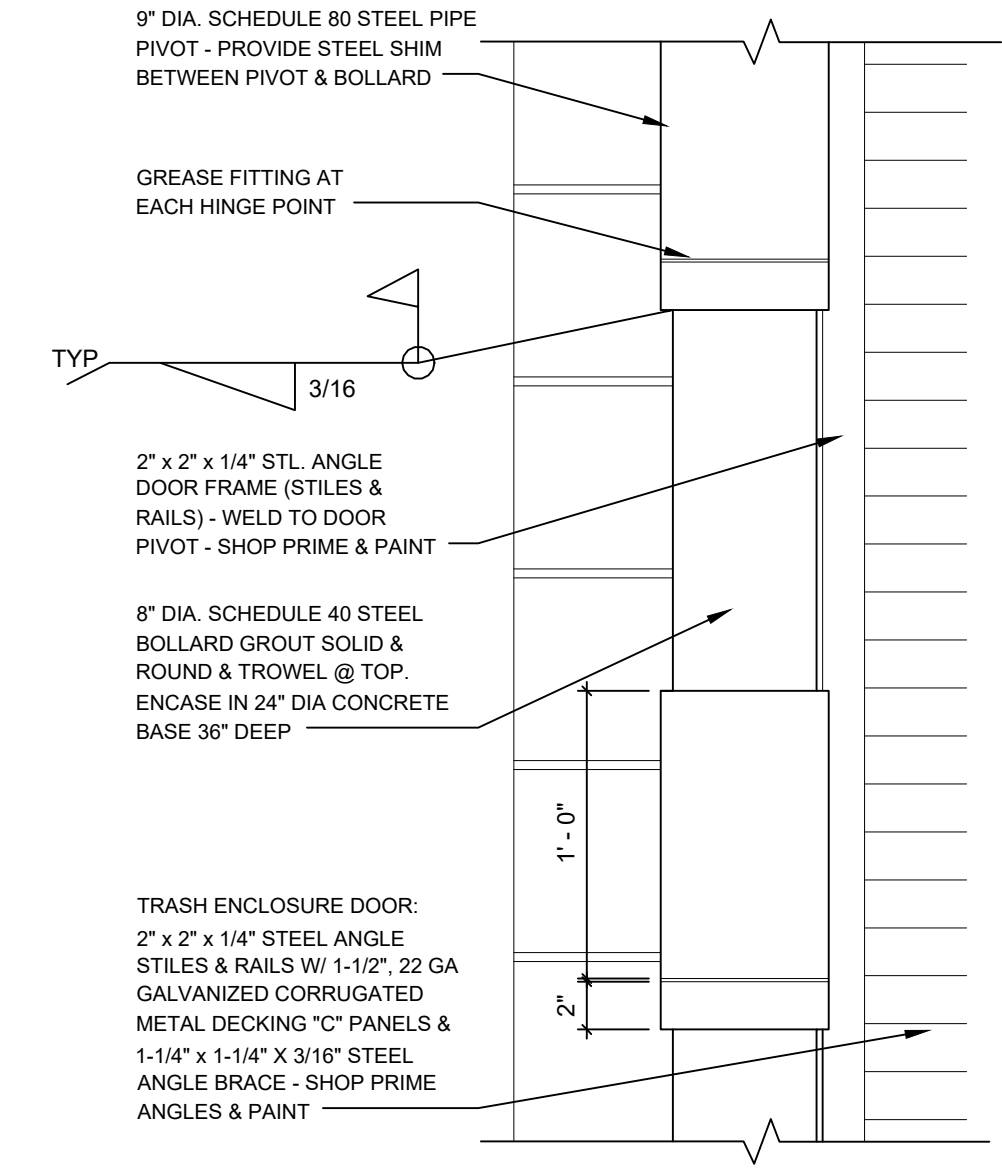
MATERIAL	COLOR/FINISH
CMU WITH STUCCO	EF-2. REFER TO A300 FOR FINISH SCHEDULE
METAL COPING	PREFINISHED TO MATCH PAINTED CMU
CORRUGATED METAL & DOOR FRAMES	PAINTED 'KNIGHTS ARMOR' PPG 1001-6



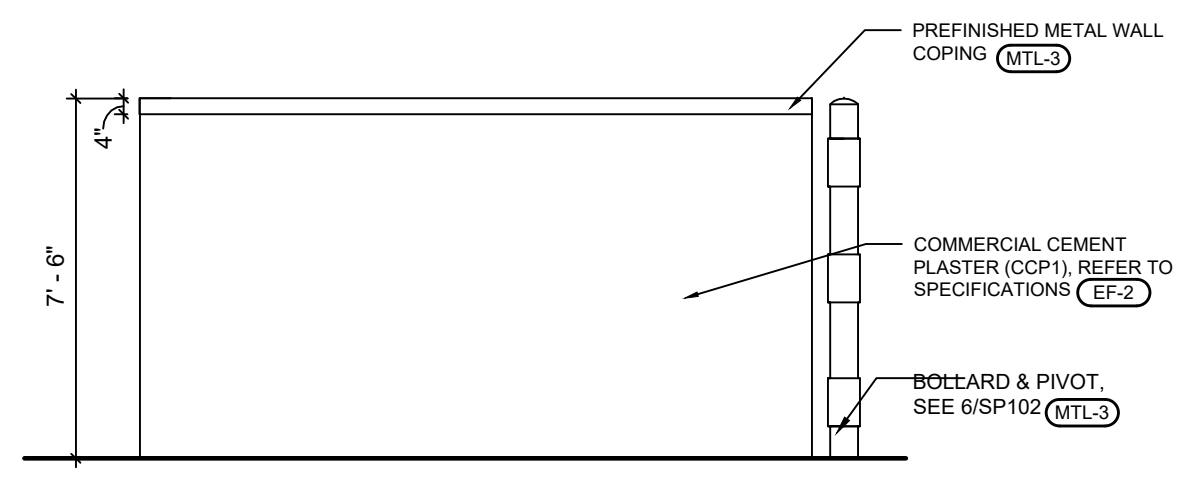
11 MAN DOOR PIVOT DETAIL



7 DUMPSTER DETAIL
SCALE: 3/4" = 1'-0"

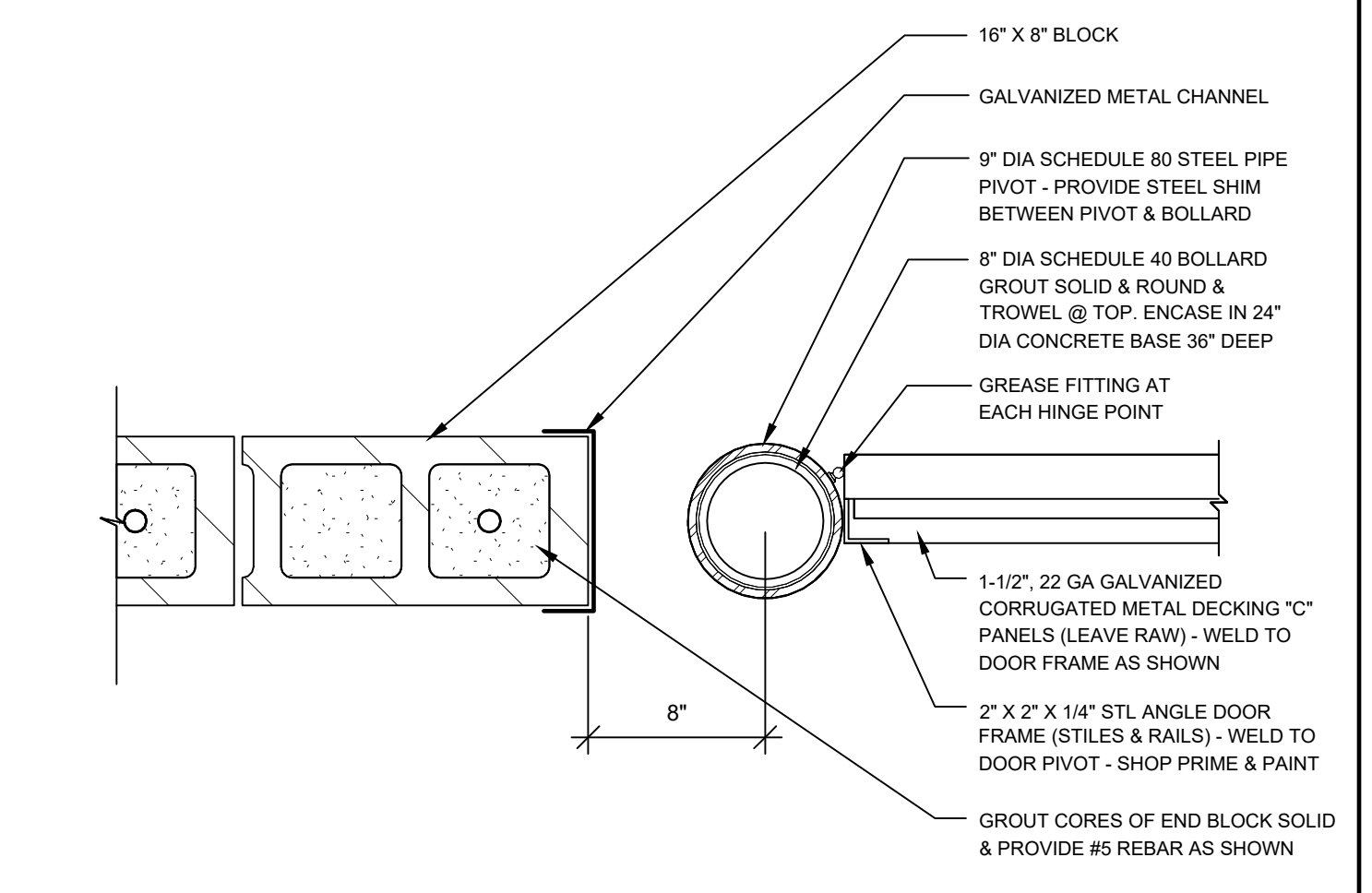


5 GATE HINGE DETAIL



2 DUMPSTER ELEVATION

1 DUMPSTER ELEVATION



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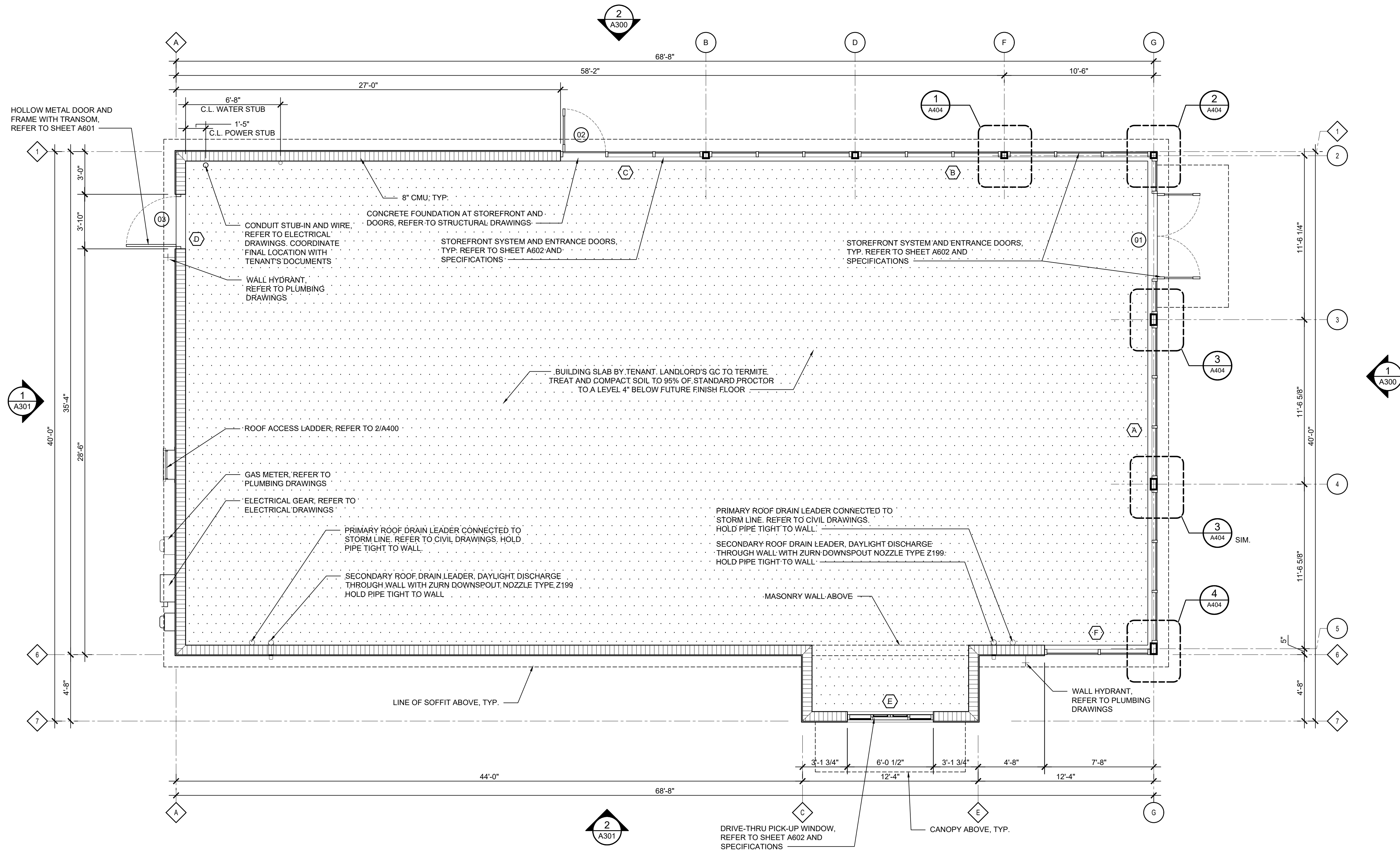
CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

3.08.24
date

23068
omm. no.

FLOOR PLAN

A 100



FLOOR PLAN

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



CONSTRUCTION NOTES

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

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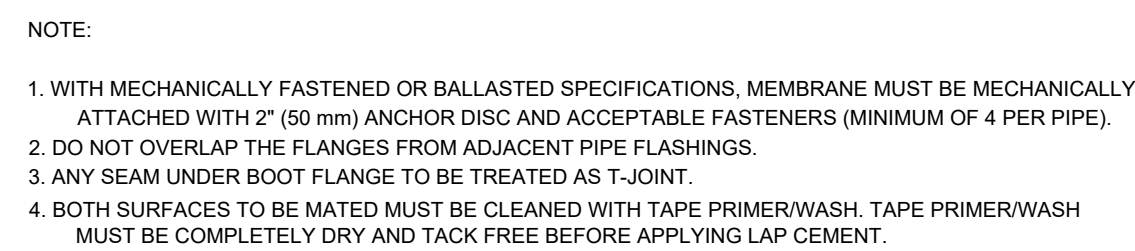
CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

3.08.24
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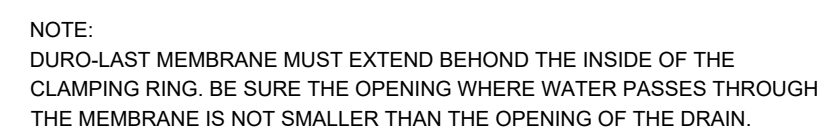
ROOF PLAN AND DETAILS

A 140



2 BOOT DETAIL

SCALE: 1 1/2" = 1'-0"



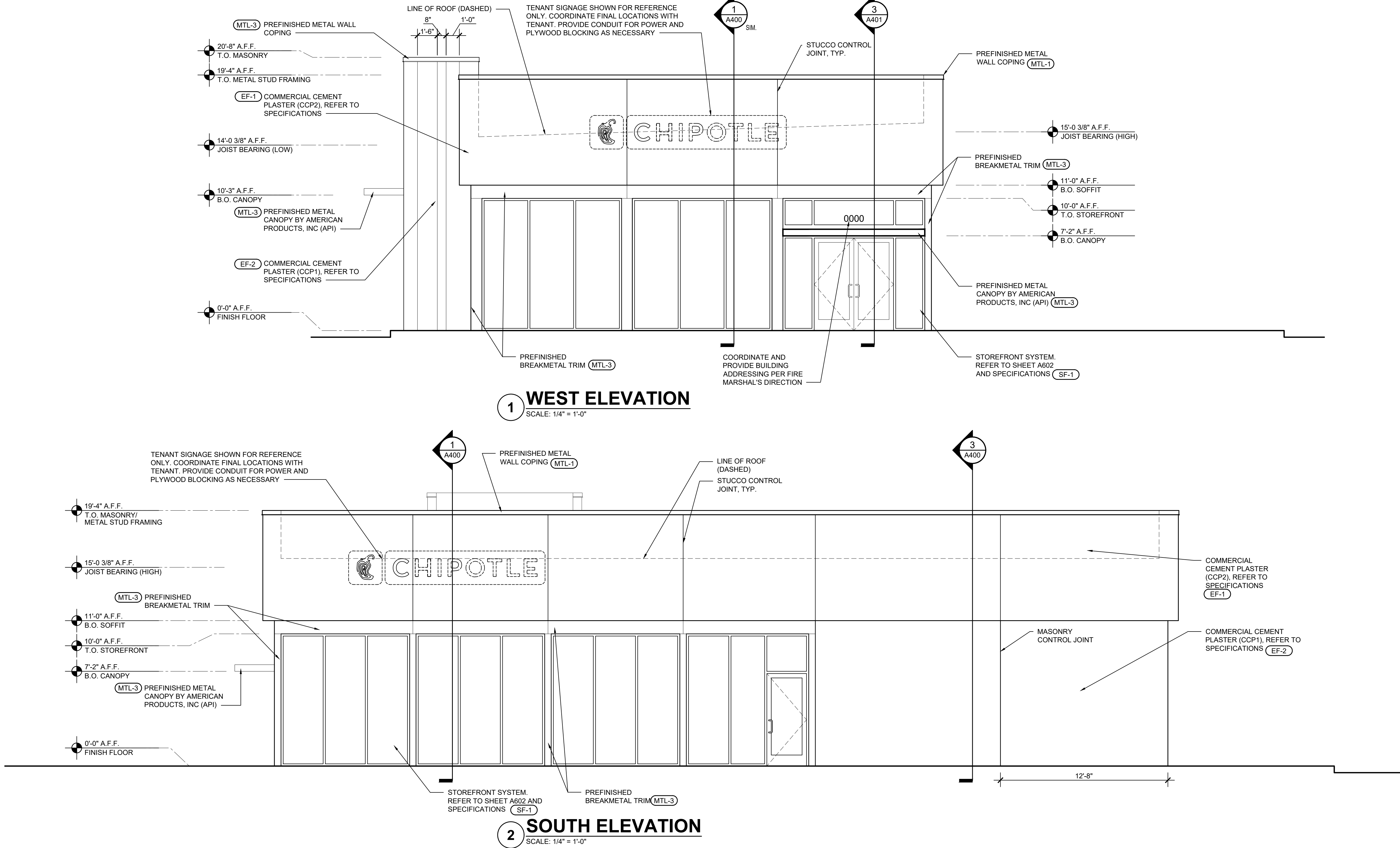
3 ROOF DRAIN DETAIL

PRE-ENGINEERED
CANOPY NOTE:

THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL TO
THE BUILDING DEPARTMENT ENGINEERED CANOPY SHOP DRAWINGS
SHOWING CONNECTIONS TO THE BUILDING

GENERAL NOTES

1. SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
3. COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
5. JOISTS FOR SHELL BUILDING ARE TO BE DESIGNED FOR THE RTU WEIGHTS AND PLACEMENT EXHIBITED IF LOCATION OR ORIENTATION OF A UNIT MUST CHANGE, NOTIFY ARCHITECT IMMEDIATELY.



GENERAL NOTES	CRITICAL NOTES	EXTERIOR FINISH NOTES	EXTERIOR FINISH SCHEDULE																																								
<p>TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID</p> <p>SIGNAGE NOTES:</p> <p>ANY BUILDING MOUNTED SIGNAGE DEPICTED IN THESE DOCUMENTS IS FOR COORDINATION PURPOSES ONLY AND IS NOT INTENDED FOR FABRICATION OR INSTALLATION BY THE GENERAL CONTRACTOR. IT SHALL BE UNDERSTOOD THAT ALL EXTERIOR BUILDING MOUNTED AND SITE SIGNAGE WILL BE PERMITTED SEPARATELY BY THE OWNER'S SIGN VENDOR. AT THAT TIME, COMPLETE DETAILS INCLUDING, BUT NOT LIMITED TO, SIGN FABRICATION, SIGN INSTALLATION, SIGN AREA AND QUANTITIES, ETC. SHALL BE SUBMITTED (BY THE SIGN VENDOR) FOR PERMIT AND APPROVAL PRIOR TO COMMENCEMENT OF WORK. SEE ELECTRICAL DRAWINGS FOR POWER REQUIREMENTS</p> <p>FACILITY ADDRESS REQUIREMENTS:</p> <p>NEW AND EXISTING BUILDINGS SHALL HAVE APPROVED ADDRESS NUMBERS PLACED IN A POSITION TO BE PLAINLY LEGIBLE AND VISIBLE FROM THE STREET OR ROAD FRONTING THE PROPERTY</p> <p>ADDRESS NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. NUMERALS SHALL BE AT LEAST 6 INCHES IN HEIGHT</p> <p>WHERE ADDRESS IDENTIFICATION IS REQUIRED BY THE FIRE OFFICIAL ON OTHER ELEVATIONS OF BUILDINGS, SUCH NUMERALS SHALL NOT BE LESS THAN SIX INCHES IN HEIGHT</p> <p>ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS</p>	<p>WALL FINISHES AT PARAPET RETURNS:</p> <p>THE DESIGN INTENT FOR PARAPET WALLS THAT RETURN ONTO THE ROOF SURFACE IS THAT THEY, WHERE EXPOSED TO VIEW, ARE TO BE PROVIDED WITH WALL FINISHES THAT ARE CONSISTENT WITH THE ADJACENT BUILDING ELEVATIONS. FOR EXAMPLE, IF CEMENT PLASTER IS PROVIDED ALONG THE MAIN BUILDING ELEVATION, THE PARAPET RETURNS ARE TO BE PROVIDED WITH EQUAL FINISHES</p> <p>THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE WALL FINISHES WITH APPLICABLE TRADES PRIOR TO INSTALLATION. <u>UNDER NO CIRCUMSTANCES</u> WILL EXPOSED ROOF MEMBRANE BE ACCEPTED AS A WALL FINISH AT THE PARAPET RETURN CONDITIONS NOTED</p> <p>WALL COUNTERFLASHING DETAILS:</p> <p>REFER TO WALL SECTIONS AND ENLARGED DETAILS FOR THE SPECIFIED COUNTERFLASHING REQUIRED ABOVE CANOPIES, AWNINGS, PILASTER CAPS AND, WHERE APPLICABLE, TRIM MOULDING. IN SUCH CASES, THE DESIGN INTENT IS TO LIMIT THE VISIBILITY OF COUNTERFLASHINGS BY INCORPORATING LOW PROFILE OR CONCEALED FLASHINGS</p> <p>THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE ALL WALL COUNTERFLASHING REQUIREMENTS WITH THE ROOFER AND APPLICABLE TRADES PRIOR TO INSTALLATION. SHOULD CLARIFICATION OF ANY DETAIL BE NEEDED, THE SHELL GENERAL CONTRACTOR SHALL SUBMIT AN RFI TO THE ARCHITECT PRIOR TO INSTALLATION</p> <p><u>UNDER NO CIRCUMSTANCES</u> WILL EXPOSED SINGLE-PLY MEMBRANE BE AN ACCEPTABLE MEANS OF FLASHING AT THE CONDITIONS NOTED</p>	<p>EXTERIOR INSULATION FINISH SYSTEM (EIFS) REQUIREMENTS:</p> <p>1. THE STANDARD FINISH COAT OVER CEMENT PLASTER SURFACES SHALL BE AN ACRYLIC EIFS FINISH COAT, "DRYVIT TAFTS" (OPTION 1) AS MANUFACTURED BY DRYVIT SYSTEMS, INC. COLORS, AS SPECIFIED ON THE EXTERIOR FINISH SCHEDULE, HAVE BEEN SELECTED FROM DRYVIT'S STANDARD COLORS. THIS SYSTEM CONSISTS OF A TINTED PRIMER AND TEXTURED ACRYLIC FINISH WITH INTEGRAL COLOR. THE SPECIFIED SYSTEM HAS A 10-YEAR MANUFACTURER WARRANTY</p> <p>2. WHERE A CUSTOM COLOR IS REQUIRED FOR THE FINISH COAT OVER CEMENT PLASTER SURFACES, AN ACRYLIC EIFS FINISH COAT, "DRYVIT TAFTS" (OPTION 1) WITH STRATOTONE COLOR MATCHING SYSTEM AS MANUFACTURED BY DRYVIT SYSTEMS, INC. SHALL BE PROVIDED. CUSTOM COLORS ARE SPECIFIED ON THE EXTERIOR FINISH SCHEDULE. THIS SYSTEM CONSISTS OF A TINTED PRIMER AND TEXTURED ACRYLIC FINISH WITH INTEGRAL COLOR. THE SPECIFIED SYSTEM HAS A 5-YEAR MANUFACTURER WARRANTY</p> <p>3. ALL FINISH COAT TEXTURES SHALL BE "SANDPEBBLE" UNLESS OTHERWISE NOTED</p> <p>4. WHERE FOAM TRIM, CORNICE MOLDING OR OTHER SHAPES ARE SPECIFIED, COMPONENTS SHALL BE AS MANUFACTURED BY "DRYVIT SHAPES BY ACROCORE" AND SHALL BE COMPRISED OF A TYPE 1 CLASSIFICATION EXPANDED POLYSTYRENE WRAPPED IN A FLEXIBLE IMPACT RESISTANT FIBERGLASS MESH AND COATED WITH A FACTORY APPLIED POLYMER MODIFIED, FLEXIBLE CEMENT COATING</p> <p>5. ALL GENERAL CONTRACTOR BIDS SHALL INCLUDE THE ABOVE STATED SYSTEMS / PRODUCTS IN THEIR BASE BIDS. SUBSTITUTIONS WILL BE CONSIDERED FOR APPROVAL BUT <u>ONLY</u> IF FULLY QUALIFIED IN BIDS INCLUDING COMPLETE SYSTEM / PRODUCT SPECIFICATIONS AND ASSOCIATED COSTS</p> <p>ALUMINUM COPING AND DRIP EDGES:</p> <p>1. ALL COMPONENTS SHALL BE PREFINISHED WITH A FACTORY APPLIED, KYNAR 500 FINISH OR MANUFACTURER EQUIVALENT.</p> <p>ELECTRICAL GEAR, ROOF LADDER AND DOOR AND FRAME ON THE NORTH (REAR) FACADE:</p> <p>1. ALL COMPONENTS SHALL BE PAINTED PT-2</p> <p>GENERAL:</p> <p>1. WHERE PLASTER REVEALS ARE NOT PREFINISHED, REVEALS SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED</p> <p>2. ALL EXPOSED, BUILDING MOUNTED UTILITIES AND CONDUITS SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACES UNLESS OTHERWISE NOTED</p> <p>THE CONTRACTOR SHALL REQUEST A COLORIZED COPY OF THE ELEVATIONS FROM THE ARCHITECT PRIOR TO ORDERING OR APPLYING EIFS, PAINT AND OTHER EXTERIOR FINISHES. THE COLORIZED ELEVATIONS WILL HELP CONFIRM COLORS AND ASSIST THE PAINTER WHERE COLOR CHANGES OCCUR</p>	<p>CEMENT PLASTER / EIFS FINISHES - ACRYLIC DPR EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE. COLOR MATCH REFERENCED PAINTS</p> <table><tr><th>TAG</th><th>MANUFACTURER</th><th>SHERWIN WILLIAMS COLOR</th><th>DESCRIPTION</th></tr><tr><td>(EF-1)</td><td>DRYVIT</td><td>PPG "FOG"</td><td>CUSTOM DRYVIT COLOR</td></tr><tr><td>(EF-2)</td><td>DRYVIT</td><td>PPG "KNIGHT'S ARMOR"</td><td>CUSTOM DRYVIT COLOR</td></tr><tr><td></td><td></td><td></td><td></td></tr></table> <p>PAINT FINISHES</p> <table><tr><td>(PT-2)</td><td>PPG</td><td>"KNIGHT'S ARMOR"</td><td></td></tr></table> <p>METAL COPING, TRIM AND CANOPIES</p> <table><tr><th>TAG</th><th>MANUFACTURER</th><th>COLOR</th><th>DESCRIPTION</th></tr><tr><td>(MTL-1)</td><td>TBD</td><td>MATCH EF-2 PPG "FOG"</td><td></td></tr><tr><td>(MTL-3)</td><td>TBD</td><td>MATCH SF-1 "CHARCOAL"</td><td></td></tr></table> <p>ALUMINUM STOREFRONT / DRIVE-THRU PICK-UP WINDOW</p> <table><tr><td>(SF-1)</td><td>KAWNEER</td><td>"CHARCOAL"</td><td>PERMAFLUOR COATING</td></tr><tr><td>(SF-2)</td><td>QUICKSERV</td><td>"BRONZE"</td><td></td></tr></table>	TAG	MANUFACTURER	SHERWIN WILLIAMS COLOR	DESCRIPTION	(EF-1)	DRYVIT	PPG "FOG"	CUSTOM DRYVIT COLOR	(EF-2)	DRYVIT	PPG "KNIGHT'S ARMOR"	CUSTOM DRYVIT COLOR					(PT-2)	PPG	"KNIGHT'S ARMOR"		TAG	MANUFACTURER	COLOR	DESCRIPTION	(MTL-1)	TBD	MATCH EF-2 PPG "FOG"		(MTL-3)	TBD	MATCH SF-1 "CHARCOAL"		(SF-1)	KAWNEER	"CHARCOAL"	PERMAFLUOR COATING	(SF-2)	QUICKSERV	"BRONZE"	
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Architects

3336 Grand Blvd, Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM

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151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-8443

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CHIPOTLE MEXICAN GRILL
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EXTERIOR
ELEVATIONS

A300



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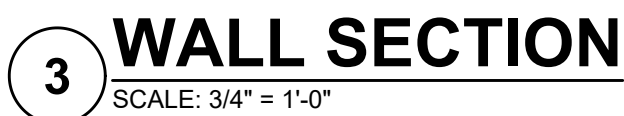
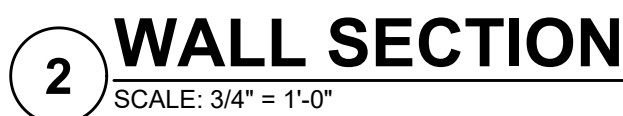
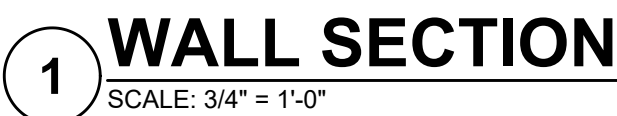
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WALL SECTIONS

A400





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Architects

3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM

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PONTE VEDRA BEACH, FLORIDA 32082
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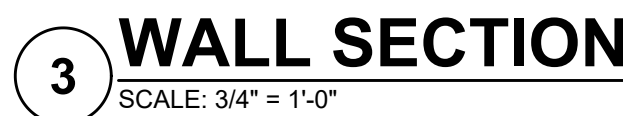
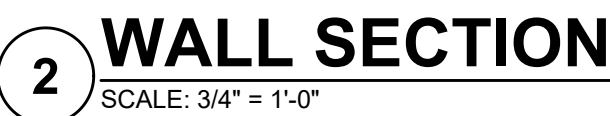
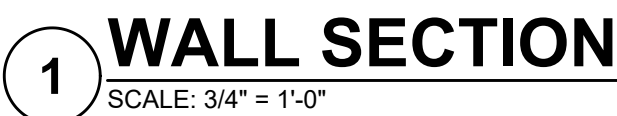
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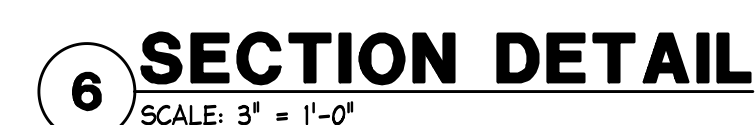
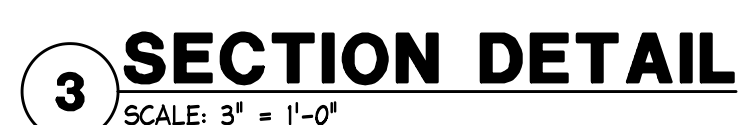
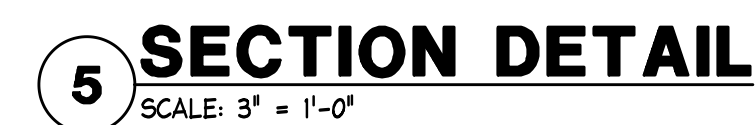
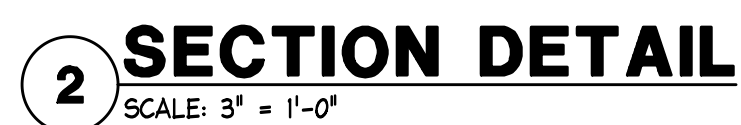
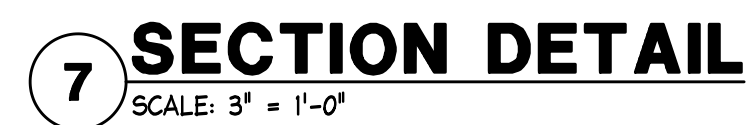
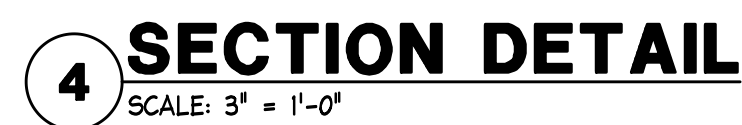
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CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
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WALL SECTIONS	

A401





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Architects

3336 Grand Blvd., Suite 20
Holiday, Florida 34690
Ph. 727. 815. 3336
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PONTE VEDRA BEACH, FLORIDA 32072
PHONE (904) 285-7600 FAX (904) 280-7601

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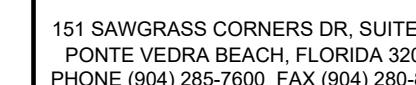
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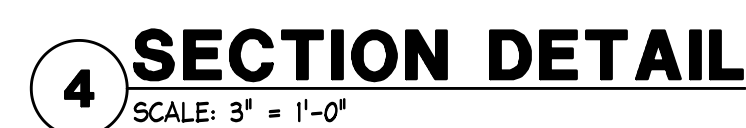
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SECTION DETAILS

A403



TO THE FULLEST EXTENT POSSIBLE, BUILDING COMPONENTS WILL BE MARKED AS 'TYPICAL' (TYP.). WHERE SO, KEYED NOTES WILL NOT BE DUPLICATED FOR COMPONENTS OF LIKE KIND. SHOULD THE CONTRACTOR REQUIRE CLARIFICATION OF ANY SUCH COMPONENT, A REQUEST FOR INFORMATION (RFI) SHALL BE SUBMITTED TO THE ARCHITECT PRIOR TO BID

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NOTE:
ALL BREAK METAL AND ALUMINUM TUBE
SYSTEM COMPONENTS AND FASTENERS
TO BE POWDER COATED TO MATCH
STOREFRONT CHARCOAL FINISH

SEAL ALL JOINTS WITH BLACK SEALANT



FWH
Architects

3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-8443

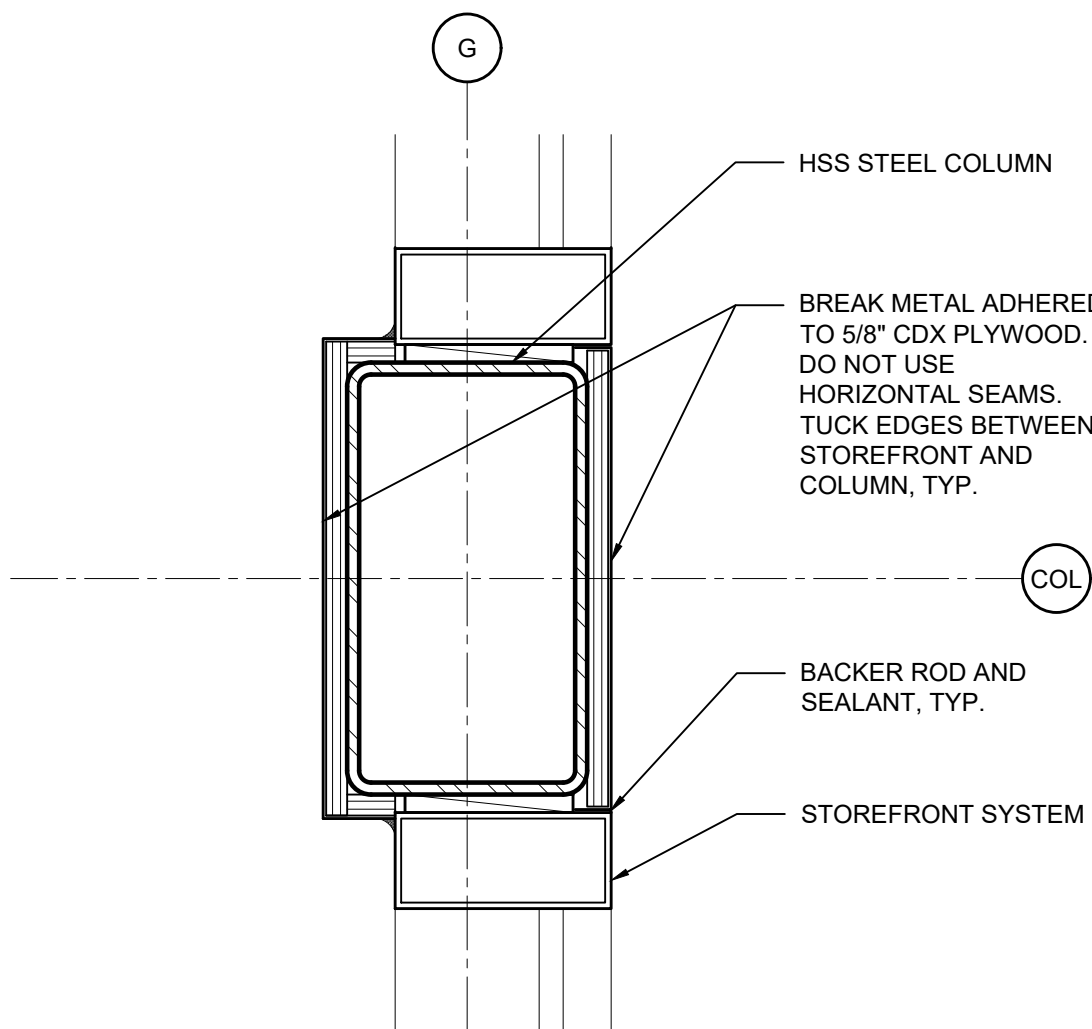
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1 PLAN DETAIL

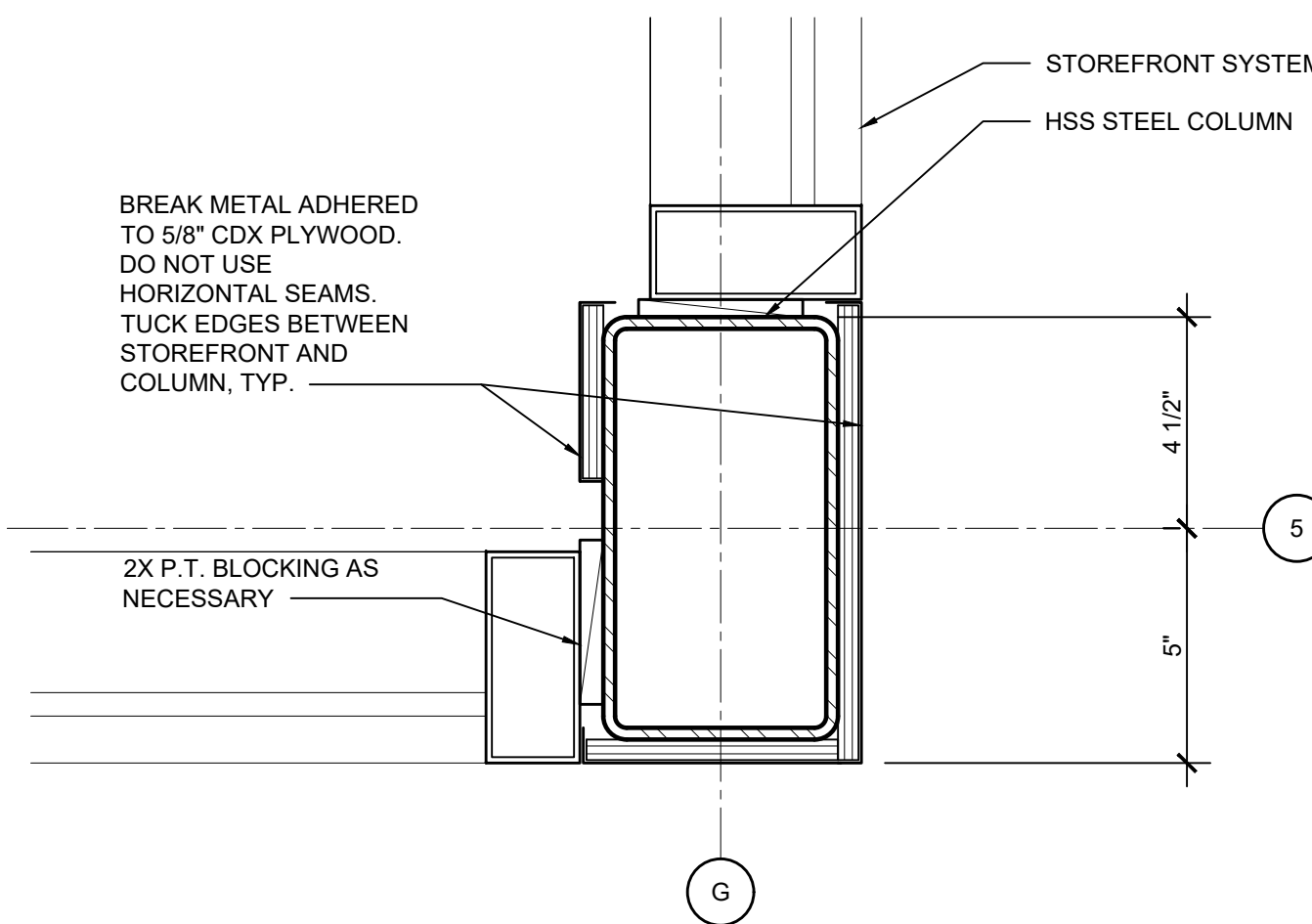
SCALE: 3" = 1'-0"

2 PLAN DETAIL



3 PLAN DETAIL

SCALE: 3" = 1'-0"



4 PLAN DETAIL

SCALE: 3" = 1'-0"

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PLAN DETAILS

A404

DOOR SCHEDULE

TAG	ROOM	DOOR DESCRIPTION	DOOR			DOOR		FRAME		STILE	HARDWARE SET	FIRE RATING	REMARKS
			WIDTH	HEIGHT	THICKNESS	DOOR TYPE	DOOR FINISH	FRAME TYPE	MATERIAL				
01	ENTRY	DOUBLE STOREFRONT (WIDE STILE, OFFSET PULL, PANIC)	PR 3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A300 & A301	STOREFRONT	ALUM	WIDE (5")	1		1,4,5
02	DINING	SINGLE STOREFRONT (WIDE STILE, OFFSET PULL, PANIC)	3' - 0"	7' - 0"	0' - 1 3/4"	A	SEE A300 & A301	STOREFRONT	ALUM	WIDE (5")	2A		1,4,5
03	KITCHEN	HM REAR KITCHEN (STANDARD)	3' - 0"	7' - 0"	0' - 1 3/4"	D	PT-1 (SEE A301)	2	H.M.	~	3		1,4

REMARK NOTES

1.	DOORS WITH REMARK #1 TO BE KEYED THE SAME
2.	NOT USED
3.	NOT USED
4.	USE NON-SHRINK STRUCTURAL GROUT BED UNDER THRESHOLD
5.	BLACK DOOR SWEEP TO BE USED WITH CHARCOAL, BLACK OR BRONZE STOREFRONT.
6.	LIGHT GRAY DOOR SWEEP TO BE USED WITH CL F&R ANODIZED ALUMINUM STOREFRONT.

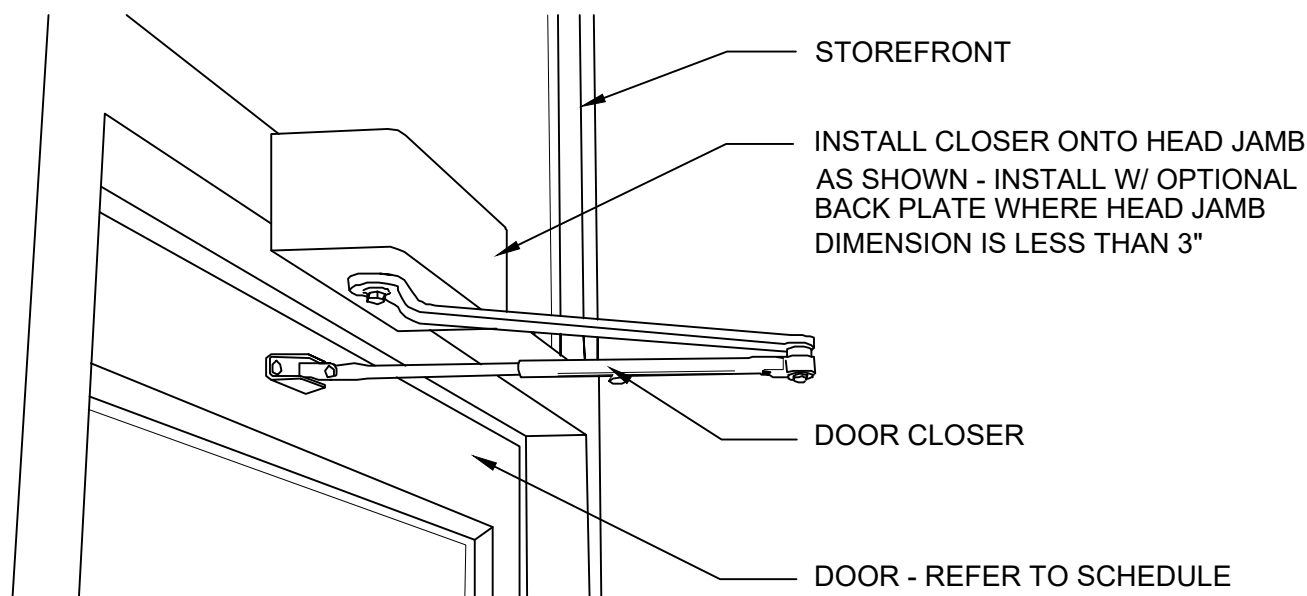
HARDWARE SETS

SET 1 - MAIN ENTRY - PAIR - OFFSET PULL - PANIC HARDWARE		
(2)	HINGE	KAWNEER CONTINUOUS HINGE, 84" #29 BLACK
(1)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE, (BRUSHED CHROME)
(1)	PUSH HARDWARE	PULLER 1686 PANIC DEVICE, FINISH, 36" DOOR) W/ CYLINDER DOGGING; C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(2)	PULL HARDWARE	KAWNEER CO-9 OFFSET PULL #45 STAINLESS STEEL
(2)	CLOSER	DORMA, MODEL 8910-AF89P (TOP JAMB), (ALUMINUM)
(2)	DOOR STOP	IVES, MODEL S185 (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, FLE-797B-21
(2)	DOOR SWEEP	PEMKO, MODEL SFSG-200-36 (36" DOOR), TENANT FURNISHED

SET 2A - ENTRY - SINGLE - OFFSET PULL - PANIC HARDWARE		
(1)	HINGE	KAWNEER CONTINUOUS HINGE, 84" #29 BLACK
(1)	MORTISE CYLINDER	SCHLAGE, MODEL 80-103, BRUSHED CHROME; C.O. CYLINDER AT 34" MIN. FROM BOTTOM OF DOOR
(1)	TEMP CODE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CODE (BRUSHED CHROME)
(1)	ROSH HARDWARE	ROSSER 1686 PUSH-OUT DEVICE, (628 ALUMINUM FINISH, 36" DOOR) W/ CYLINDER DOGGING; C.O. EXIT DEVICE AT 38" FROM BOTTOM OF DOOR
(1)	PULL HARDWARE	KAWNEER CO-9 OFFSET PULL #45 STAINLESS STEEL
(1)	CLOSER	DORMA, MODEL 8916-AF89P-689 (TOP JAMB), (ALUMINUM)
(1)	CLOSER BACK PLATE	DORMA, MODEL 8919, 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 SWIP	PEMCO, MODEL SFS-C-200-36 (36" DOOR), TENANT FURNISHED
(1)	DOOR STOP	IVES, MODEL FS18S (ALUMINUM)

SET 3 - REAR EXIT - SINGLE		
(1)	HINGE	HAGER, MODEL 780-224HD-84" CLR
(1)	EXIT DEVICE	FALCON, MODEL 25-C-NL-4"-US28 (SIZE 42")
(1)	TEMP CORE	SCHLAGE, MODEL 80-035 INTERCHANGEABLE CORE (FINISH: BRUSHED CHROME)
(1)	CLOSER	DORMA, MODEL 8916-AF89P (TOP JAMB), ALUMINUM
(1)	CLOSER BACK PLATE	DORMA, MODEL BP89, ALUMINUM
(1)	THRESHOLD	REESE, MODEL S239A42, (SIZE 42")
(1)	WEATHERSTRIP	REESE, MODEL DS75C-4070
(1)	DOOR SWEEP	PEMKO, MODEL SFSC-200-42 (42" DOOR) (BLACK) TENANT 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

DOOR CLOSER



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



3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-8443

TO THE BEST OF THE KNOWLEDGE
OF THE ARCHITECTS AND
ENGINEERS, SAID PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING
CODES AND THE APPLICABLE
MINIMUM FIRE SAFETY STANDARDS

GUY F. FABER
FL License No. AR0015323
seal

no.	date	revision descriptions

CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

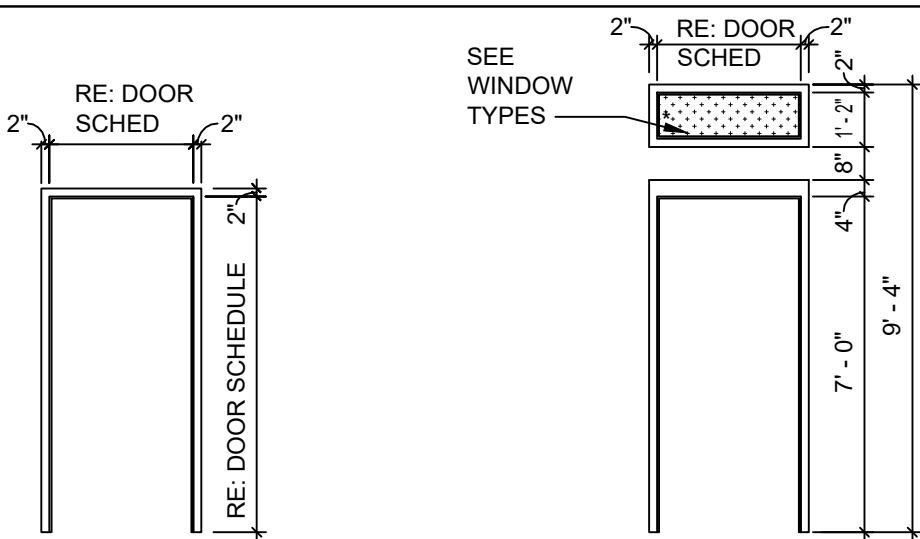
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DOOR AND HARDWARE SCHEDULE

A60 1

DOOR FRAME TYPES



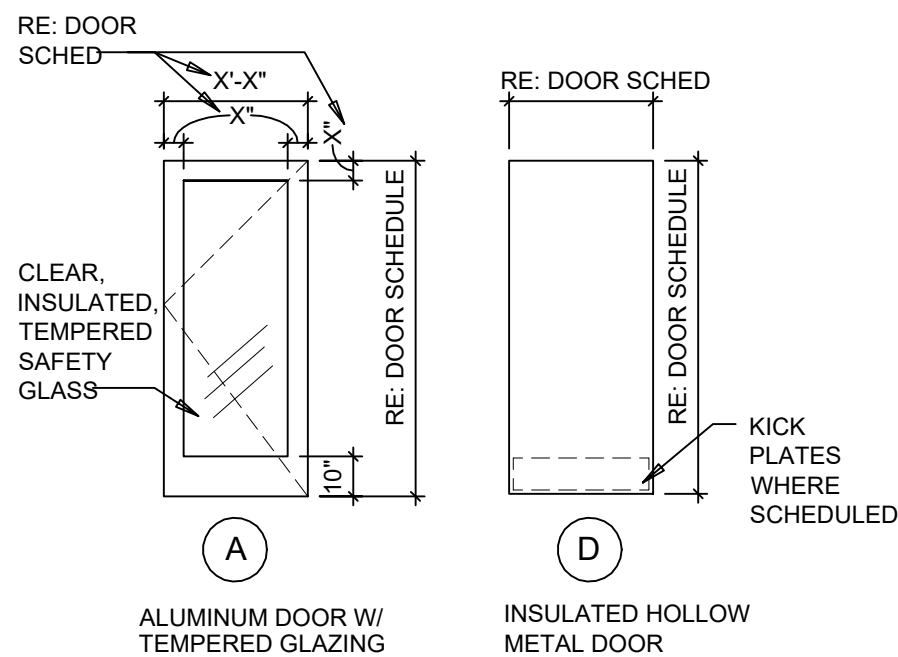
1

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.

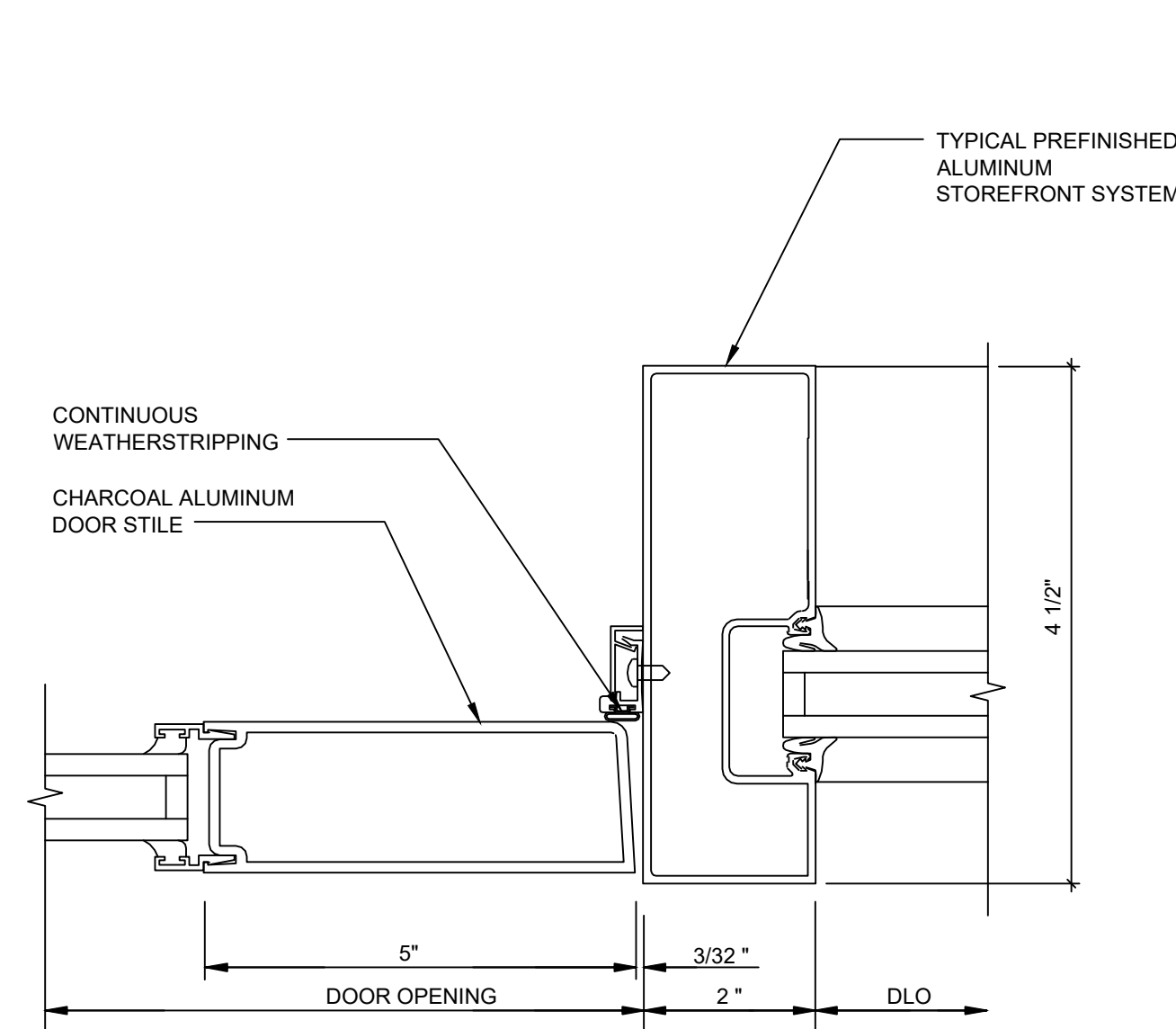
DOOR TYPES



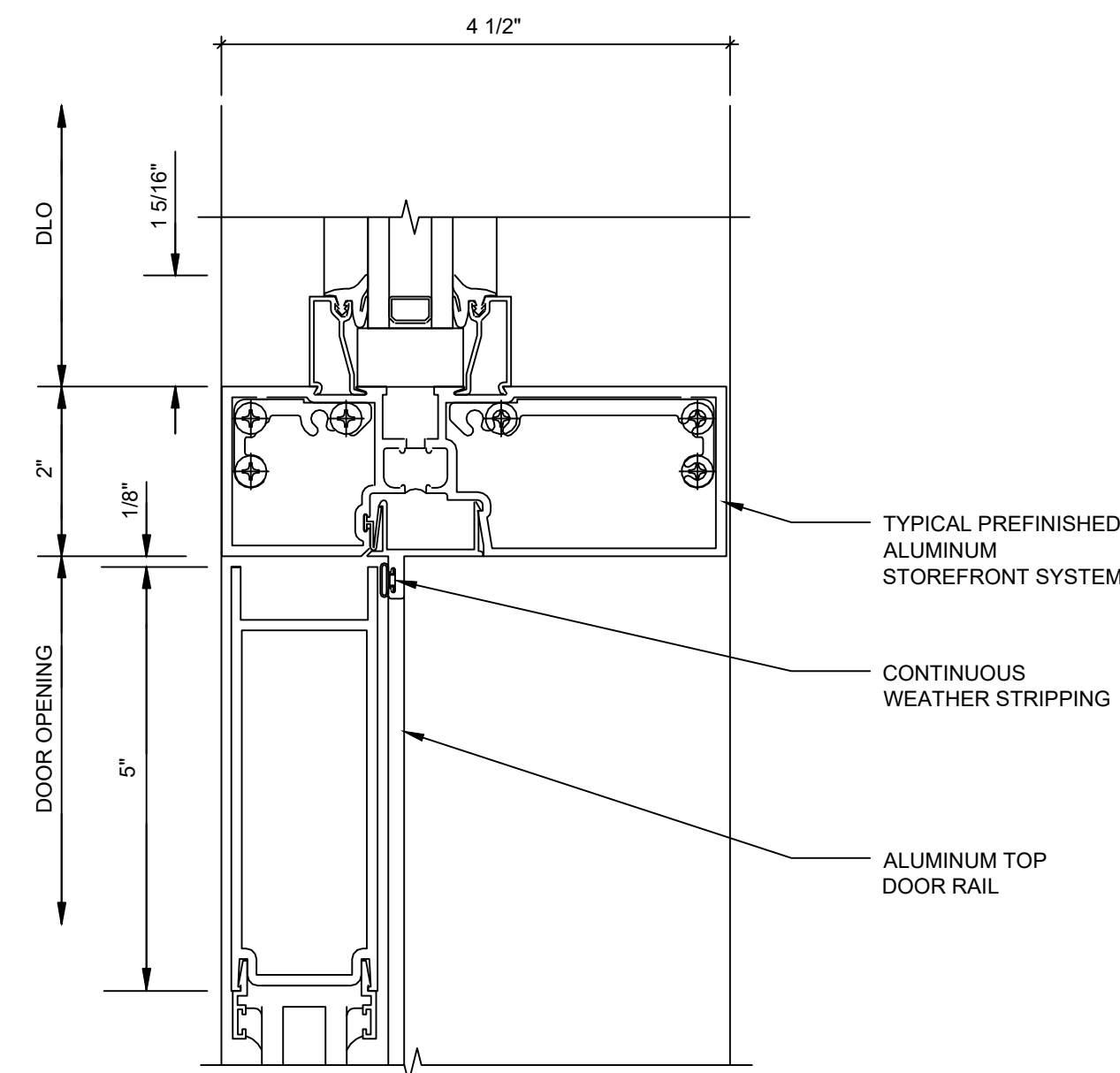
DOOR NOTES

- | | |
|-----|--|
| 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 NPFA 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. | NOT USED |
| 6. | MAXIMUM EFFORT TO OPERATE EXTERIOR OR INTERIOR DOORS WITH CLOSERS SHALL NOT EXCEED 8.5 POUNDS. THIS MAY BE INCREASED TO 15 POUNDS FOR FIRE-RATED DOORS. |
| 7. | ALL FRAMES, DOORS AND HARDWARE TO BE FURNISHED BY LANDLOLD'S CONTRACTOR. |
| 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. | NOT USED |
| 10. | NOT USED |
| 11. | ALL HARDWARE SHALL MATCH STOREFRONT, VERIFY WITH ARCHITECT PRIOR TO ORDERING |

STOREFRONT DETAILS

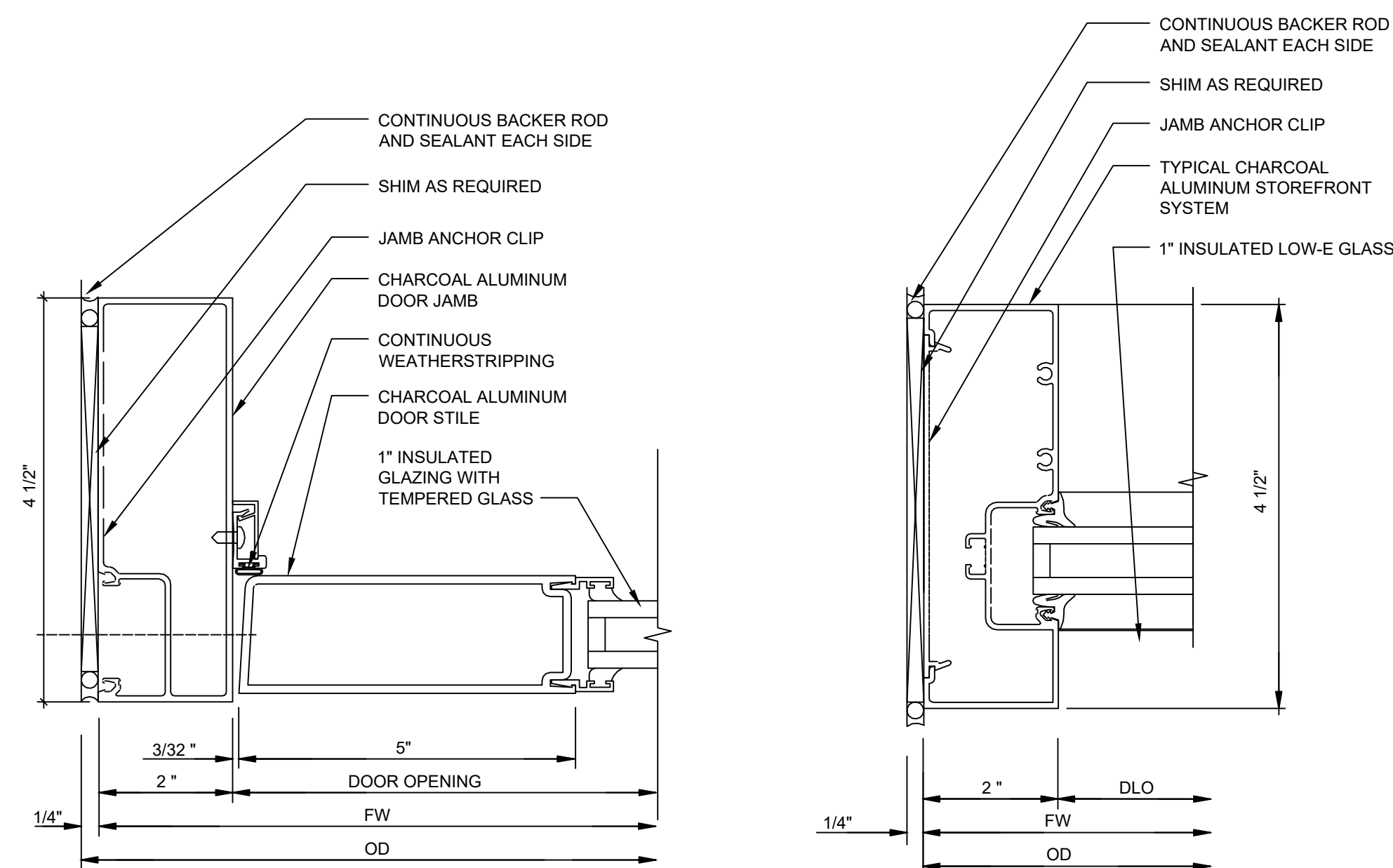


9 STOREFONT DOOR JAMB DETAIL
SCALE: 6" = 1'-0"

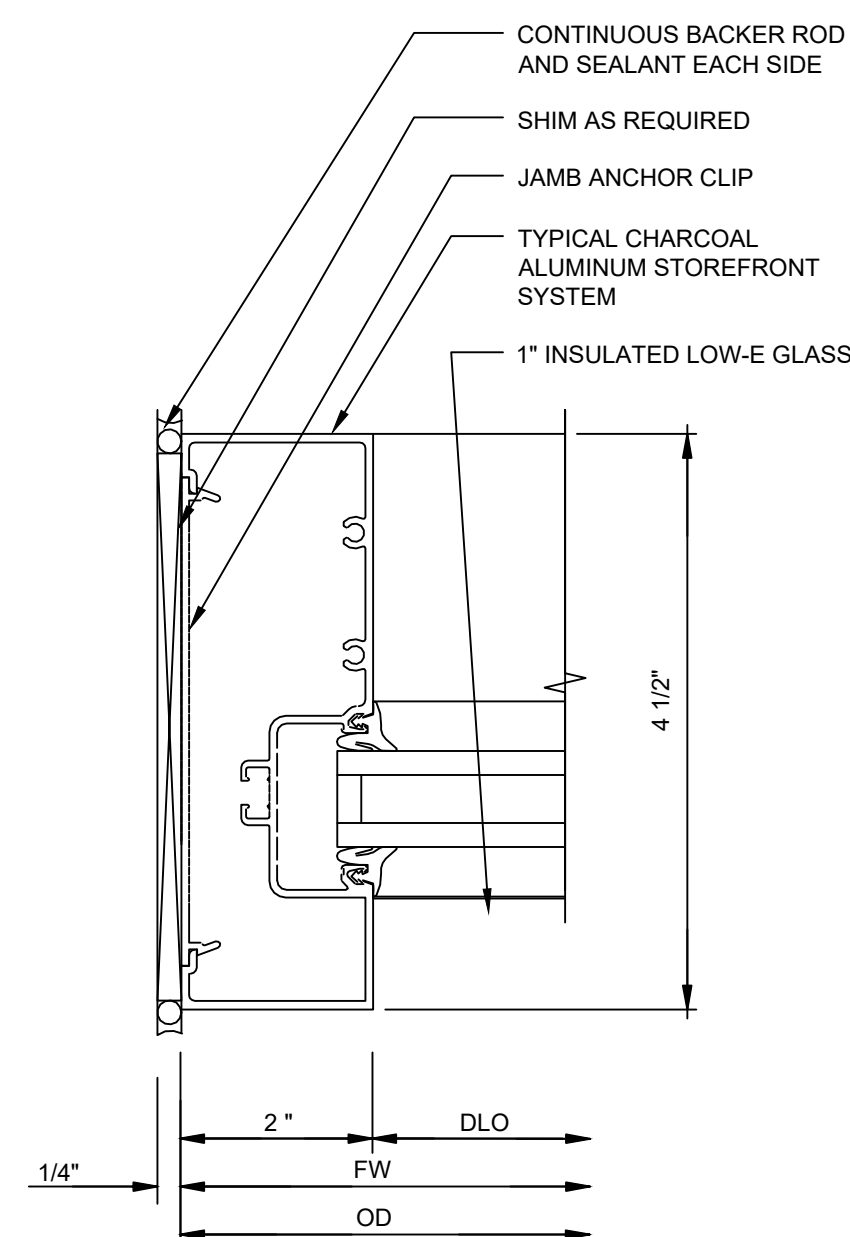


8 STOREFONT TRANSOM BAR DETAIL

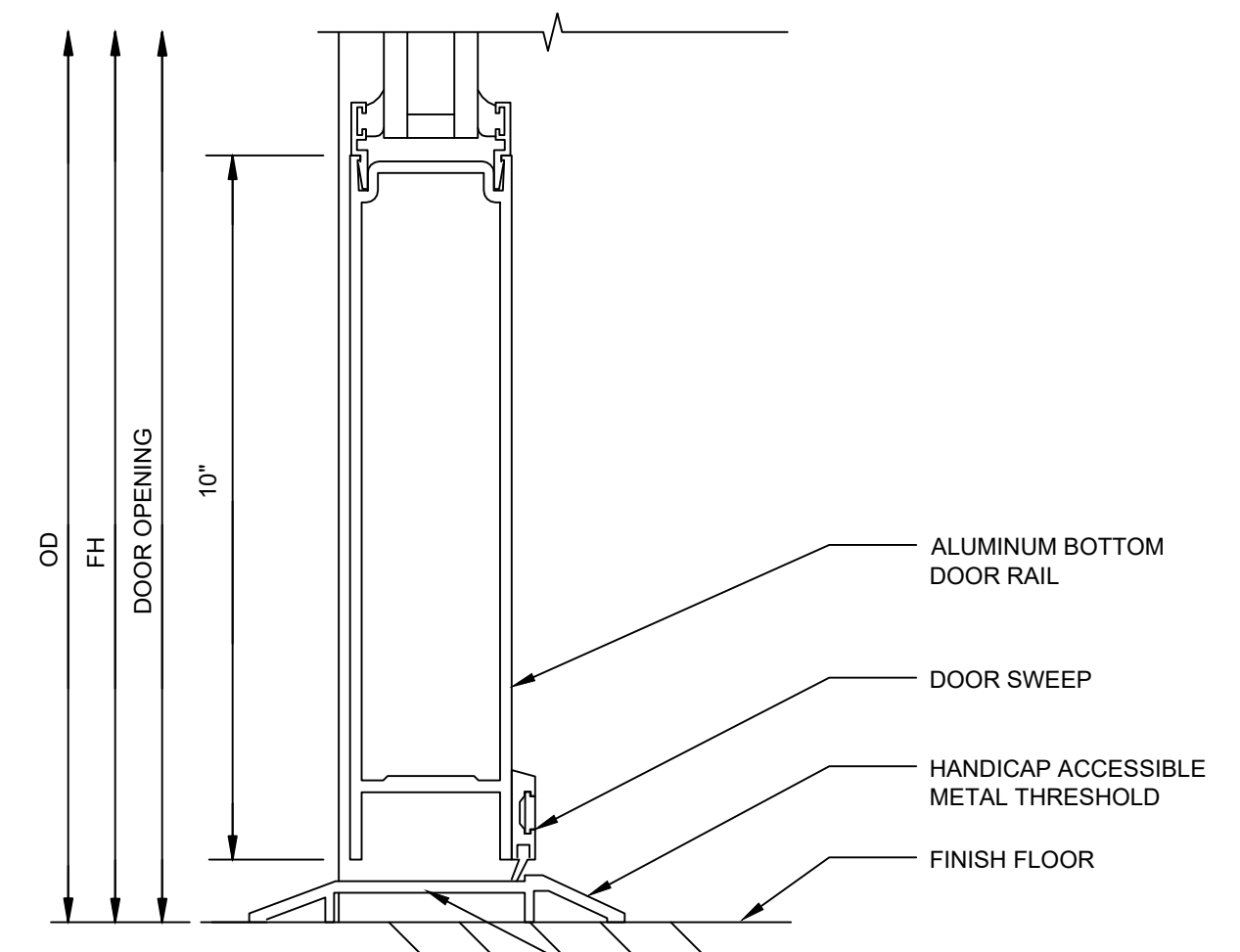
NOTE:
DETAILS SHOWN GENERICALLY REPRESENT THE DESIGN INTENT OF THE DOOR AND STOREFRONT SYSTEMS. GRAPHICAL VARIATIONS MAY OCCUR DEPENDING ON SYSTEM TYPE AND MANUFACTURER. THE SPECIFICATIONS SCHEDULES AND FLORIDA PRODUCT DATA SHALL GOVERN.



6 STOREFONT DOOR JAMB DETAIL
SCALE: 6" = 1'-0"



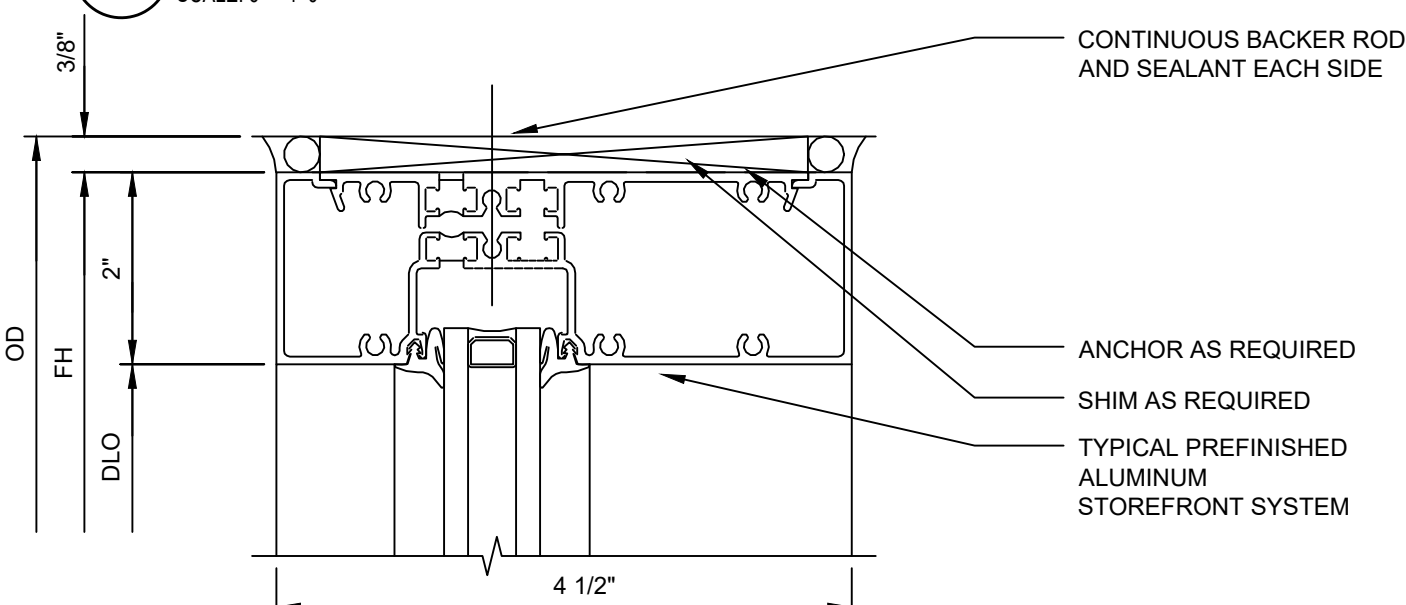
4 STOREFONT JAMB DETAIL



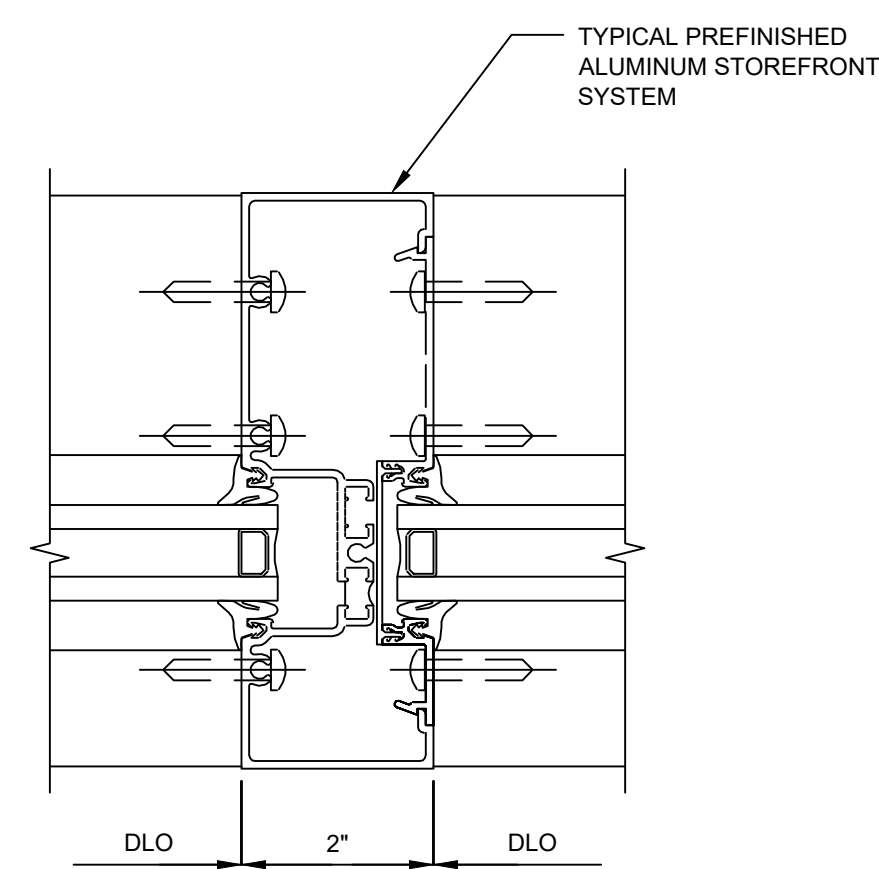
ANCHOR AS REQUIRED

7 STOREFONT THRESHOLD DETAIL

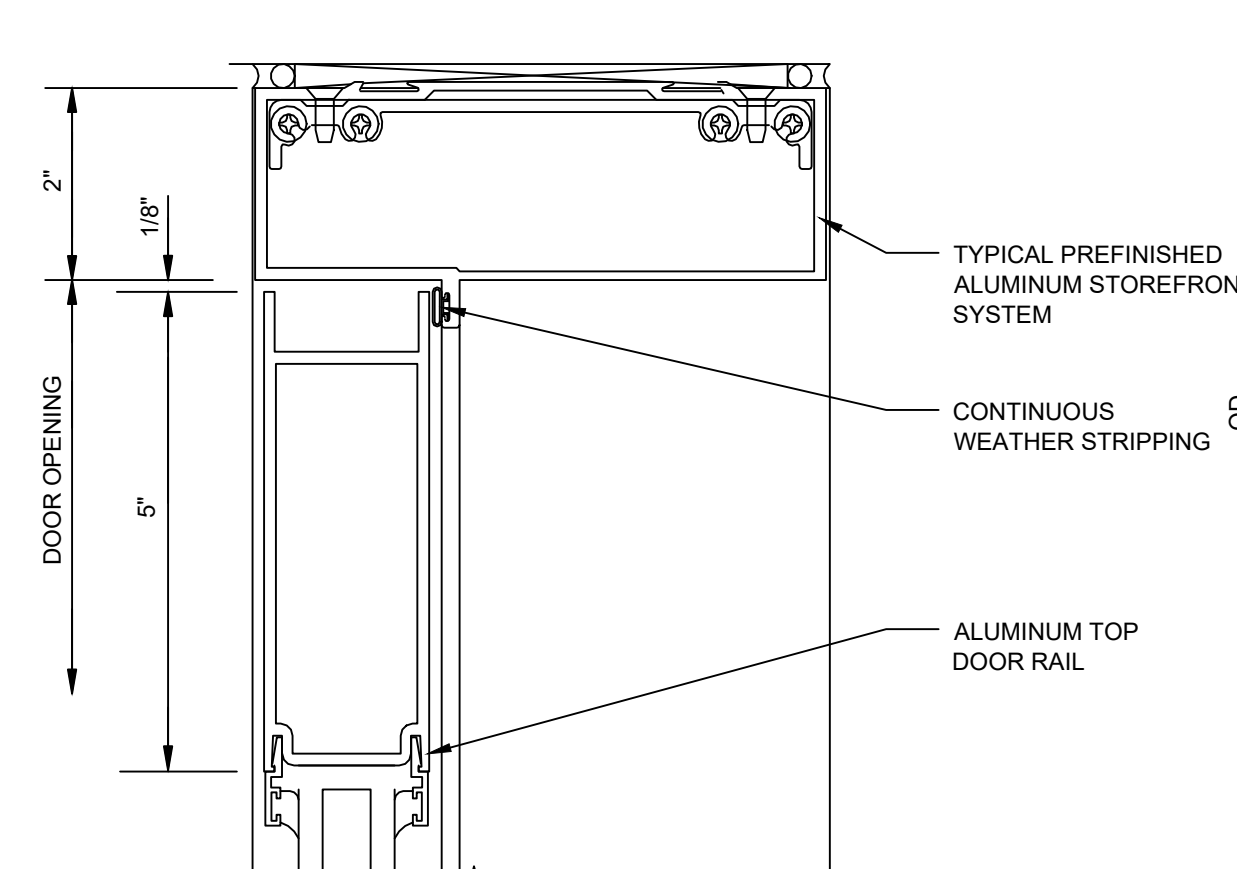
SCALE: 6" = 1'-0"



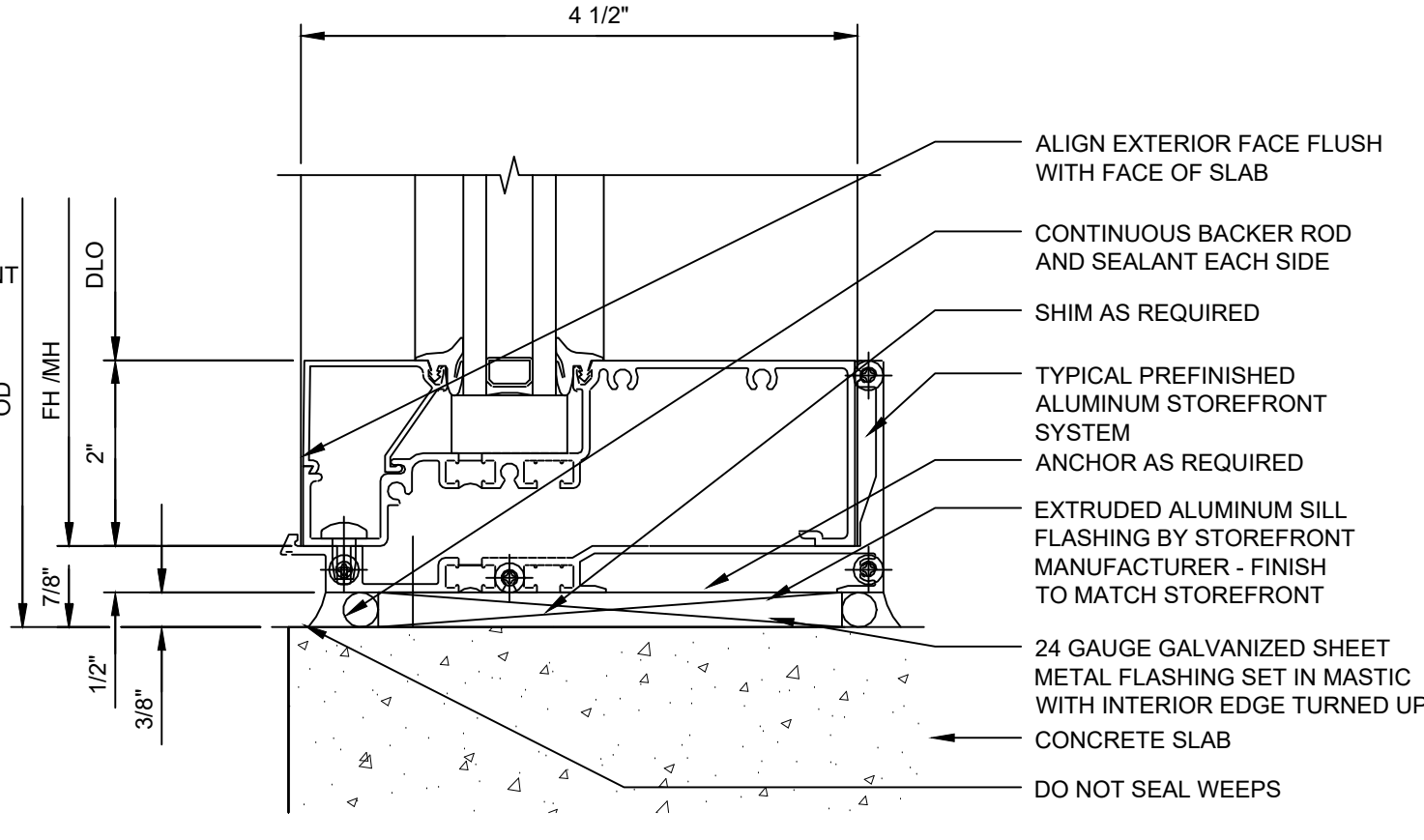
5 STOREFONT HEAD DETAIL
SCALE: 6" = 1'-0"



3 STOREFONT MULLION DETAIL



2 STOREFONT TRANSOM BAR DETAIL



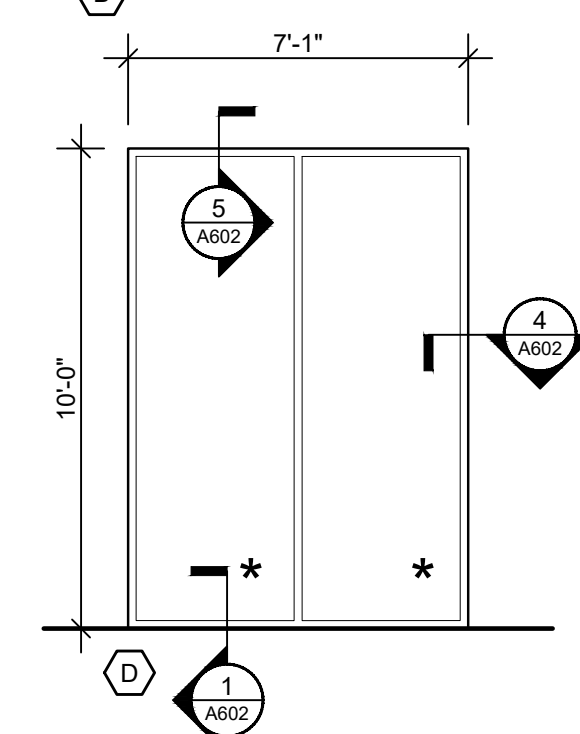
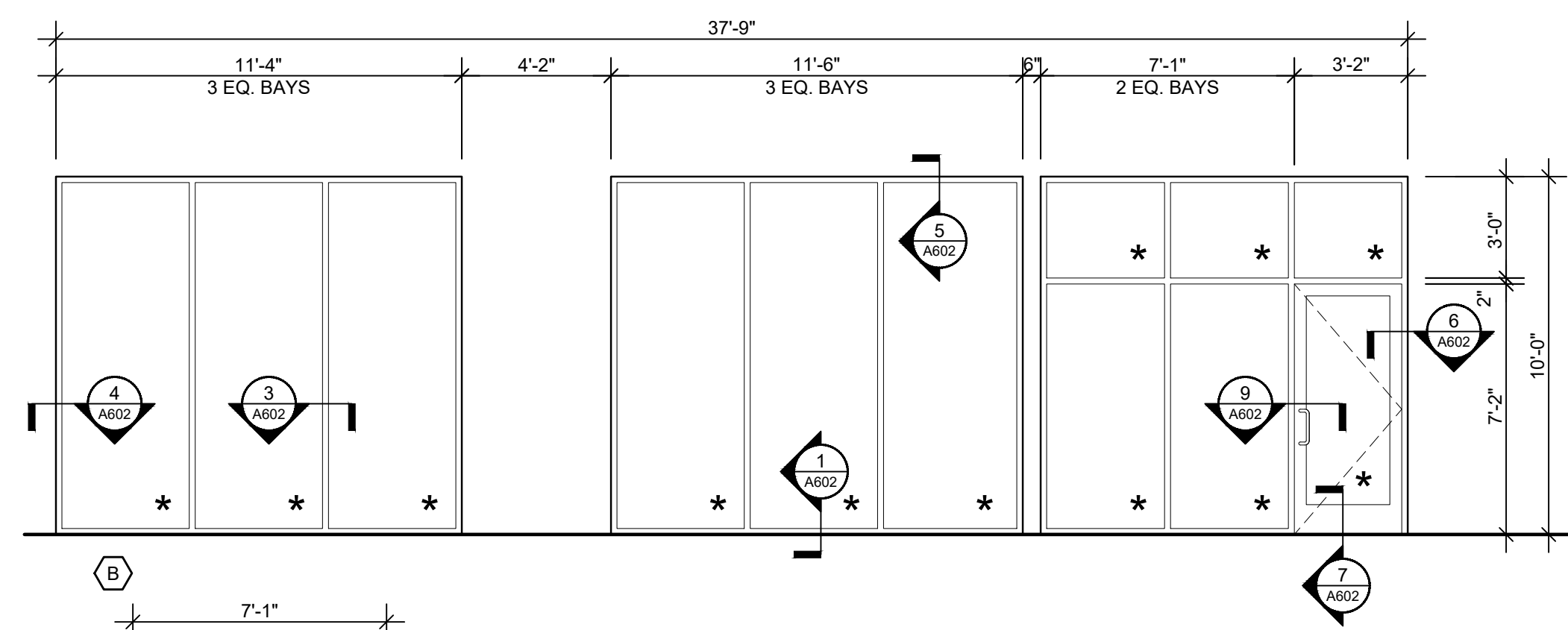
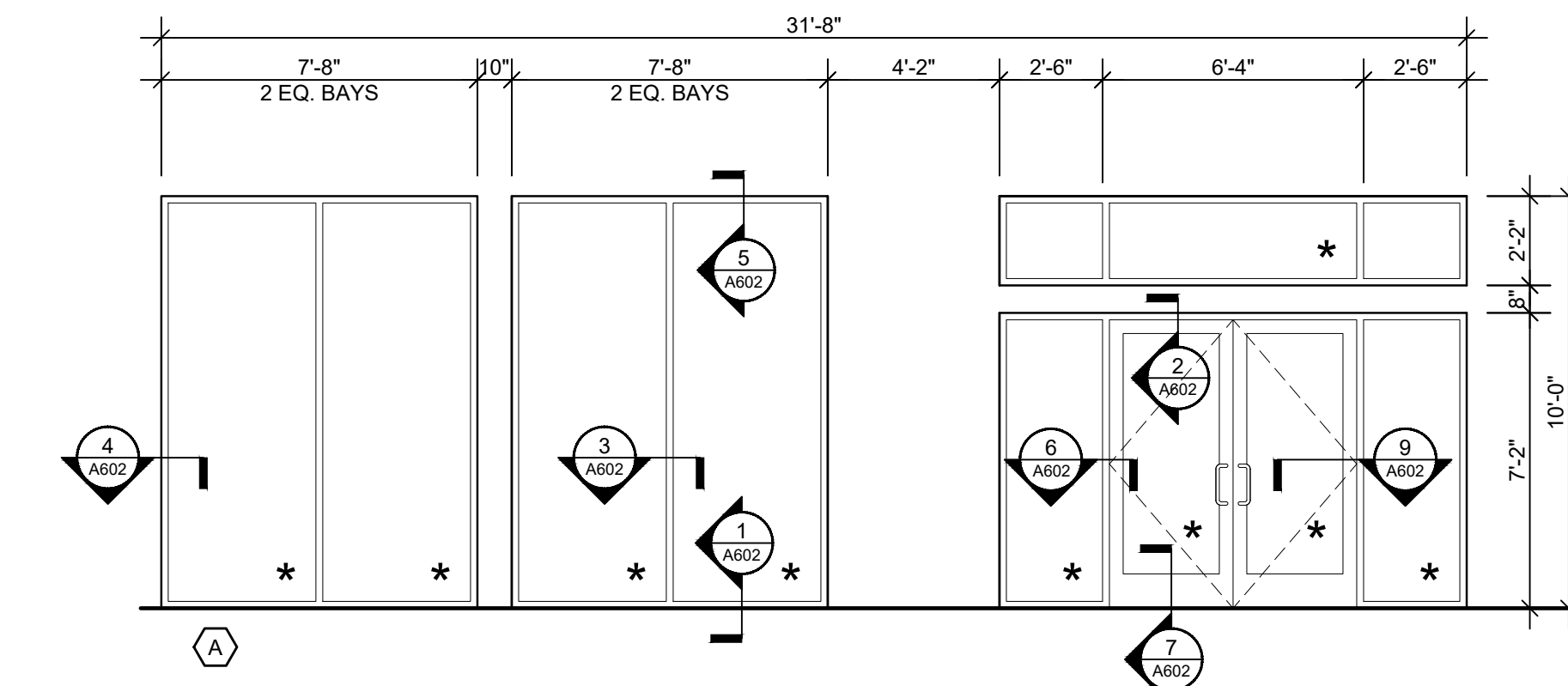
1 STOREFONT SILL DETAIL

GENERAL NOTES

- | | | |
|---|---|--|
| 1. ALL WINDOW AND DOOR GLAZING IS TO BE CLEAR/ INSULATED. LOW-E, NON-IMPACT UNLESS NOTED OTHERWISE. | 4. STOREFRONT GLAZING DESIGN IS BASED ON KAWNEER FRONT SET ALUMINUM STOREFRONT WITH 1" INSULATED GLAZING AND CHARCOAL FINISH, REFER TO SPECS. | 5. STOREFRONT SYSTEM IS 2" x 4 1/2" NOMINAL DIMENSION; FRONT SET, UNLESS NOTED OTHERWISE |
| 2. WINDOW AND DOOR GLAZING TO BE TEMPERED AT LOCATIONS INDICATED WITH "★" | 3. NEW STOREFRONT FRAMING SYSTEM TO BE SUPPLIED BY LANDLORD G.C. FIELD VERIFY FRAMING OPENING SIZES AND MATERIALS PRIOR TO FABRICATION. | 6. GLAZING PANEL SIZES ARE CONTINGENT ON MANUFACTURER'S LIMITATIONS BASED ON PROJECT SPECIFIC WIND LOADS |

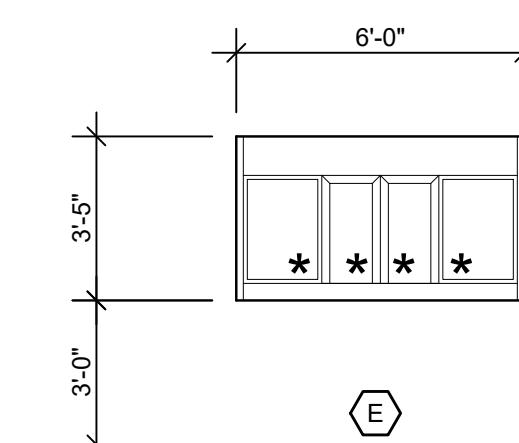
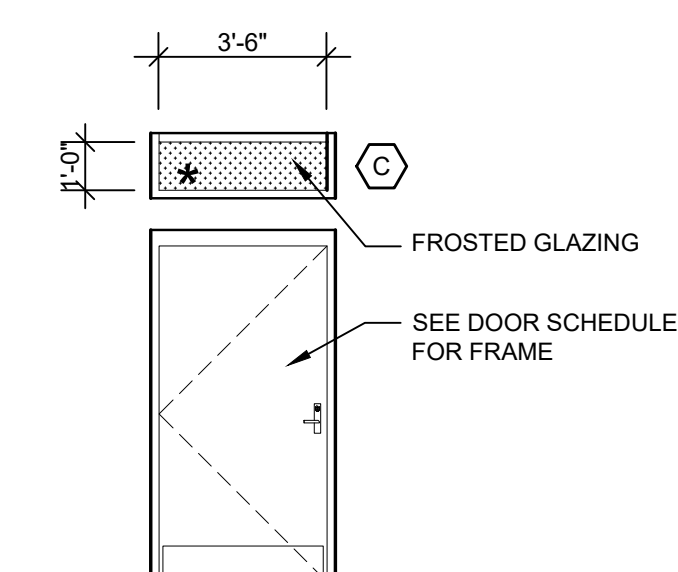
STOREFRONT TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR



WINDOW TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR



DRIVE-THRU WINDOW BY QUICKSERV MODEL BP-7241E-IP-CHIPOTLE
MIAMI-DADE NOA 23-0816.26
PACKAGE TO INCLUDE THE "THRU-BEAM" SENSORS AND AIR CURTAIN



3336 Grand Blvd. Suite 201
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ABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
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FL License No. AR0015323
seal

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CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

23068
comm. no.

STOREFRONT DETAILS

A602

MISCELLANEOUS

- | | | | |
|-----|---|-----|--|
| 1. | THE STRUCTURAL SYSTEM IS UNCONSTRAINED UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS. | 3. | WELDED WIRE FABRIC, ASTM A-603, FORTWYTH IN SHEETS, NOT ROLLS. |
| 2. | THE STRUCTURAL DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT PRESCRIBE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION METHODS, PROCEDURES, TECHNIQUES AND SEQUENCES. | 4. | MOISTURE (VAPOR) RESISTANCE: 10 MIL POLYETHYLENE, LAP 6" AND TAPE JOINTS. |
| 3. | CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION. | 5. | CODES AND STANDARDS: (CURRENT EDITION)
ACI 301 "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS."
ACI 308 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."
ACI 318 "BLOC. CODE REQUIREMENTS FOR REINF. CONCRETE."
ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT." |
| 4. | APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE 8TH EDITION (2023). | 6. | MINIMUM LAP SPlice = 30 BAR DIAMETERS UNLESS NOTED OTHERWISE. |
| 5. | ALL MATERIALS AND WORKSMANSHIP SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023). | 7. | PROVIDE PROPERLY SIZED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TIE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIE LEGS ON ALL EXPOSED SURFACES. |
| 6. | DESIGN GRAVITY LOADS:

AREA SUPERIMPOSED LIVE LOAD (FBC, TABLE 1609.1)
ROOF 20 PSF
FLOOR 100 PSF (SLAB-ON-GROUND)
PRE-FAB CANOPY 20 PSF | 8. | CONTRACTOR SHALL VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, AND SLAB RECESSES AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVE, OPENING, OR INSERT MAY BE PLACED IN BEAMS, UNLESS APPROVED BY THE ENGINEER. |
| 7. | AREA DEAD LOAD
ROOF 20 PSF | 9. | CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT CLUSTERS, WELD PLATES, ETC., BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR. |
| 8. | ULTIMATE DESIGN WIND SPEED = 150 MPH (FBC, FIGURE 1609.3.1)
ASD NOMINAL DESIGN WIND SPEED = 116 MPH (FBC, TABLE 1609.3.1)
RISK CATEGORY II (FBC, TABLE 1604.5)
REFER TO 1/5001 FOR WIND PRESSURES AND MORE INFO | 10. | SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISHES. |
| 9. | RAIN INTENSITY: 8.85 IN/Hr (15-MIN), 4.39 IN/Hr (60-MIN) | 11. | ALL CONCRETE SHALL BE CURED IMMEDIATELY AFTER FINISHING OPERATIONS IN ACCORDANCE WITH ONE OF THE FOLLOWING METHODS:
a) APPLY A 30% SOLIDS LIQUID MEMBRANE FORMING CHEMICAL CURING COMPOUND IN ACCORDANCE WITH ASTM C-309.
b) PROVIDE CONTINUOUS MOISTURE TO CONCRETE IN ACCORDANCE WITH ACI 301. |
| 10. | COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS. | 12. | GENERAL CONTRACTOR IS RESPONSIBLE FOR THE PROPER DESIGN AND CONSTRUCTION OF ALL FORMWORK, SHORING, AND RESHORING. DESIGN SHALL BE PERFORMED BY A LICENSED FLORIDA ENGINEER. |
| 11. | CONTACT ENGINEER WITH ANY QUESTIONS OR DISCREPANCIES FOUND ON DRAWINGS. | | |

MATERIAL AND SHOP DRAWING SUBMITTALS

- | | | | |
|----|---|-----|---|
| 1. | SHOP DRAWINGS SHALL BE REVIEWED BY THE CONTRACTOR AND MARKED "APPROVED" PRIOR TO SUBMITTING TO THE ARCHITECT. NON-COMPFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW. | a) | CYLINDER STRENGTH TESTS - ASTM C39; ONE SET OF FOUR CYLINDERS FOR EACH 500 CUBIC YARDS OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD THE FINAL CYLINDER IN RESERVE. |
| 2. | SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN IN DIGITAL PDF FORMAT WITH A HIGH-RESOLUTION, ALLOW FOR TWO WEEKS REVIEW. AFTER RECEIPT OF SUBMITTALS BY THIS FIRM, ALL SUBMITTALS SHALL BE SIGNED/SEALED BY THE SPECIALTY OR DELEGATED ENGINEER, AS NOTED BELOW, REFER TO THE SPECIFIC SECTION ON THIS SHEET FOR MORE INFORMATION REGARDING THE SHOP DRAWING SUBMITTAL. | b) | SLUMP TESTS - ASTM C143 |
| | a) STRUCTURAL STEEL | 16. | ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR. |
| | b) CONCRETE MIX DESIGN | 17. | RESTRICT THE ADDITION OF MIX WATER AT THE JOB SITE. DO NOT ADD WATER WITHOUT THE APPROVAL OF THE GENERAL CONTRACTOR AND DO NOT EXCEED SLUMP LIMITATIONS OR TOTAL ALLOWABLE WATER TO CEMENT RATIO. USE COLD WATER FROM THE TRUCK TANK AND REMIX TO ACHIEVE CONSISTENCY. TEST REPORTS SHALL INDICATE QUANTITY OF WATER ADDED AT THE JOB SITE. ALL TESTS SHALL BE PREPARED AFTER THE ADDITION OF WATER TO THE MIX. |
| | c) CONCRETE REINFORCING STEEL | | |
| | d) MASONRY REINFORCING STEEL | 18. | MAXIMUM WATER TO CEMENT RATIO WHEN NO BACK-UP DATA IS AVAILABLE: |
| | e) PRECAST CONCRETE MASONRY | a) | 4000 PSI, 28-DAY COMPRESSIVE STRENGTH: W/C RATIO, 0.44 MAXIMUM (NON-AIR-ENTRAINED), 0.36 MAXIMUM (AIR-ENTRAINED). |
| | f) WOOD TRUSSES | b) | 3000 PSI, 28-DAY COMPRESSIVE STRENGTH: W/C RATIO, 0.58 MAXIMUM (NON-AIR-ENTRAINED), 0.47 MAXIMUM (AIR-ENTRAINED). |
| | g) COLD-FORMED METAL FRAMING DATA | | |
| 3. | CONTRACTOR SHALL NOT BE RELEASED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF. | 19. | REINFORCING BAR COVER:
a) FOOTINGS 3"
b) BEAMS 1-1/2" |
| 4. | SHOP DRAWINGS WILL BE REVIEWED FOR GENERAL COMPLIANCE WITH THE DESIGN INTENT OF THE CONTRACT DOCUMENTS ONLY; IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY COMPLIANCE WITH THE CONTRACT DOCUMENTS AS TO QUANTITY, LENGTHS, DIMENSIONS, ETC. | 20. | CONCRETE SHALL BE PLACED WITHIN 90 MINUTES OF BATCH TIME. |
| 5. | SHOP DRAWING REVIEW COMMENTS BY THIS FIRM SHALL BE TRANSMITTED TO THE ARCHITECT BY RECORD OR WHEN THEIR REVIEW OF THE ARCHITECT WILL TRANSMIT AN ELECTRONIC COPY OF ALL REVIEWED SUBMITTALS TO THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR DISTRIBUTING THE REVIEWED SHOP DRAWINGS TO THE IMPACTED TRADES OR SUBCONTRACTORS. | 21. | WHERE BAR LENGTHS ARE GIVEN ON DRAWINGS, LENGTH OF HOOK, IF REQUIRED, IS NOT INCLUDED. |
| 6. | CHANGES AND ADDITIONS MADE ON SHOP DRAWING RE-SUBMITTALS SHALL BE CLEARLY FLAGGED AND NOTED AS SUCH. THE PURPOSE OF THE RE-SUBMITTAL SHALL BE NOTED IN THE COMMENTS ON A TRANSMITTAL ATTACHED TO THE SHOP DRAWINGS. A RE-REVIEW OF THE REVISED SHOP DRAWING SUBMITTAL WILL BE LIMITED TO THOSE ITEMS CAUSING THE RE-SUBMITTAL. THE CONTRACTOR IS RESPONSIBLE FOR THE COSTS ASSOCIATED WITH RE-SUBMITTING MULTIPLE (MORE THAN ONE) SHOP DRAWING SUBMITTALS AT THE ENGINEER OF RECORD'S HOURLY RATES. | 22. | PROVIDE COMMERCIAL FINE COATING COMPOUNDS THAT WILL NOT BOND, OR ADVERSELY AFFECT CONCRETE SURFACES. MET FLOORS BEFORE PLACING CONCRETE. |
| | | 23. | ALL CONCRETE SHALL BE CONSOLIDATED IN PLACE USING INTERNAL VIBRATORS. |
| | | 24. | REPAIR AND PATCH DEFECTIVE AREAS WITH EXISTENT MORTAR IMMEDIATELY AFTER REMOVAL OF FORMS. EXPOSED REINFORCING |

SITE WORK

- | | |
|---|--|
| <p>1. A SUBSURFACE INVESTIGATION HAS BEEN COMPLETED AT THE PROJECT SITE BY ECG FLORIDA, LLC (PROJECT NO. 247573) SOIL BORING LOGS AND SITE PREPARATION PROCEDURES ARE INCLUDED IN THE PROJECT SOILS REPORT, DATED FEBRUARY 1, 2024 WHICH IS AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS.</p> | <p>25. PROVIDE CORNER BARS AT ALL BEAM AND WALL FOOTING CORNERS TO MATCH HORIZONTAL BARS.</p> |
| <p>2. ALL SITE WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SOILS REPORT.</p> | <p>26. SUBMITTALS:
a) SUBMIT PROPOSED CONCRETE MIX DESIGN PRIOR TO CONSTRUCTION, INCLUDING BACKUP DATA IN ACCORDANCE WITH ACI 301-99 CHAPTER 4, SECTION 4.2.3, EXCLUDING SECTION 4.2.4B. INDICATE THE MIX DESIGN TO BE USED FOR EACH</p> |

3. DESIGN SOIL BEARING PRESSURE = 2,500 PSI

4. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS:
- A) ONE DENSITY TEST FOR EACH 2,000 SQUARE FEET OF COMPACTED SUBGRADE AND COMPACTED FILL
 - B) ONE DENSITY TEST FOR EACH COLUMN FOOTING.
 - C) ONE DENSITY TEST FOR 50 FEET OF WALL FOOTING.
5. ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.
6. FOUNDATION WALLS THAT RETAIN EARTH SHALL BE BRACED AGAINST BACKFILLING PRESSURES UNTIL FLOOR SLABS AT TOP AND BOTTOM ARE IN PLACE.
7. THE SIDES OF FOOTINGS MAY BE EARTH-FORMED IF THE EXCAVATION CAN BE KEPT VERTICAL, CLEAN, AND STABLE; OTHERWISE, PLYWOOD FORMS MUST BE USED).
8. NUMBER, SIZE, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAMS.
9. SLEIGHT FORMWORK AND SHORING DRAWINGS TO LOCAL BUILDING DEPARTMENT WHEN REQUIRED BY FLORIDA THRESHOLD LAW.
27. STEP AND SLOPE ALL WALKWAYS AWAY FROM THE BUILDING.
- MASONRY**
1. MASONRY INSPECTION SHALL BE PROVIDED BY A QUALIFIED AGENT IN ACCORDANCE WITH ACI 530-1.6. INSPECTION SERVICES SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE WORK IN PROGRESS AS WELL AS MATERIALS, EQUIPMENT, AND PROCEDURES.
2. HOLLOW LOAD BEARING UNITS SHALL CONFORM TO ASTM C90, NORMAL WEIGHT, TYPE II. MINIMUM NET COMPRESSIVE UNIT STRENGTH = 1900 PSI. (NET AREA COMPRESSIVE MASONRY STRENGTH $f_m = 1500$ PSI).

DELEGATED ENGINEER (PRE-ENGINEERED TRUSSES)

- | | | | |
|----|---|----|---|
| 1. | A LICENSED PROFESSIONAL (DELEGATED) ENGINEER SHALL BE RETAINED TO DESIGN THE WOOD ROOF TRUSSES. | 4. | COARSE GROUT SHALL CONFORM TO ASTM C476:
a) 3000 PSI AT 28 DAYS.
b) 1/4" MAXIMUM AGGREGATE.
c) 8" - 11" SLUMP. |
| 2. | THE DELEGATED ENGINEER SHALL BE EXPERIENCED IN THE DESIGN OF THE REFERENCED PROJECT OR ASSEMBLY. | 5. | CODES AND STANDARDS:
A503/ASCE 5 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
A503.1/ASCE 6 "SPECIFICATIONS FOR MASONRY STRUCTURES" |
| 3. | THE DELEGATED ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS. | 6. | PLACE ALL MASONRY IN RUNNING BOND WITH 3/8" MORTAR JOINTS. PROVIDE COMPLETE COVERAGE FACE SHELL MORTAR BEDDING, HORIZONTAL AND VERTICAL. FULLY MORTAR WEBS IN ALL COURSES OF PIERS, COLUMNS, AND PLASTERS AND ADJACENT TO GROUTED CELLS. |
| 4. | IT IS THE DELEGATED ENGINEER'S RESPONSIBILITY TO REVIEW THE ENGINEER OF RECORD'S WRITTEN ENGINEERING REQUIREMENTS AND AUTHORIZATION FOR THE DELEGATED ENGINEERING DOCUMENT TO DETERMINE THE APPROPRIATE SCOPE OF ENGINEERING. | 7. | A REINFORCED CONCRETE THE BEAM SHALL BE PROVIDED IN ALL WALLS SHOW ON THE STRUCTURAL DRAWINGS AT THE ROOF AND AT TOP OF ANY PARALLEL WALLS. PROVIDE CORNER BARS AT ALL CORNERS TO MATCH HORIZONTAL. |
| 5. | THE DELEGATED ENGINEERING DOCUMENT SHALL COMPLY WITH THE WRITTEN ENGINEERING REQUIREMENTS RECEIVED FROM THE ENGINEER OF RECORD. THEY SHALL INCLUDE THE PROJECT IDENTIFICATION AND THE CRITERIA USED AS A BASIS FOR ITS PREPARATION. IF A DELEGATED ENGINEER DETERMINES THERE ARE ANY FEASIBLE OR UNANTICIPATED PROJECT LIMITS WHICH CONFLICT WITH THE WRITTEN ENGINEERING REQUIREMENTS PROVIDED BY THE ENGINEER OF RECORD, THE DELEGATED ENGINEER SHALL IMMEDIATELY CONTACT THE ENGINEER OF RECORD FOR RESOLUTION OF CONFLICTS. | 8. | VERTICAL BARS SHALL BE HELD IN POSITION AT THE TOP AND BOTTOM OF BAR AND AT 8"-O.C. MAXIMUM WITH A MINIMUM CLEARANCE OF 1/2" FROM MASONRY. THE CLEAR DISTANCE BETWEEN BARS SHALL NOT BE MORE THAN ONE BAR DIAMETER, NOR LESS THAN 1". CENTER BARS IN WALLS U.N.O. |
| 6. | THE DELEGATED ENGINEER SHALL FORWARD THE DELEGATED ENGINEERING DOCUMENT TO THE ENGINEER OF RECORD FOR REVIEW. ALL FINAL DELEGATED ENGINEERING DOCUMENTS REQUIRE THE SEAL AND SIGNATURE OF THE DELEGATED ENGINEER AND:
a) DRAWINGS INTRODUCING ENGINEERING INPUT SUCH AS DEFINING THE CONFIGURATION OF THE WALL, THE LOADS OF THE COMPONENTS, AND/OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS. b) CALCULATIONS. | 9. | VERTICAL REINFORCING SHALL BE AS SHOWN ON THE DRAWINGS. FILL CELLS WITH COARSE GROUT AS SPECIFIED. PROVIDE ADO 90 DEGREE |

CAST IN PLACE CONCRETE

- | | | | |
|----|--|-----|---|
| 1. | CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
a) FOOTINGS, SLAB-ON-GRADE, 3000 PSI
b) BEAMS 4000 PSI | 11. | ALL REINFORCED FILL CELLS ARE TO BE CLEAN AND FREE OF ANY FOREIGN MATERIAL OR DEBRIS. REMOVE ANY FOREIGN MATERIAL FROM FILL CELLS INCLUDING POLYSTYRENE INSULATING INSERTS, PRIOR TO GROUT POUR. |
| 2. | CONCRETE SHALL BE READY-MIX PER ASTM C94:
a) PORTLAND CEMENT - ASTM C 150
b) AGGREGATES - ASTM C33 (3/4" MAX.)
c) NO CALCIUM CHLORIDE
d) AIR ENTRAINING - ASTM C260
e) WATER REDUCING - ASTM C494
f) FLASH - ASTM C618 CLASS F (20% MAXIMUM BY WEIGHT)
g) WATER - CLEAN AND POTABLE | 12. | REINFORCING BARS SHALL BE STRAIGHT EXCEPT FOR BENDS AROUND CORNERS AND WHERE BENDS OR HOOKS ARE DETAILLED ON THE PLANS. |
| 3. | REINFORCING STEEL: ASTM A615 GRADE 60.
REQUIRED SLOPE RANGE = 3" TO 5". | 13. | WHEN A FOUNDATION DOWEL DOES NOT LINE UP WITH A VERTICAL CORE, IT SHALL NOT BE SLOPED MORE THAN ONE HORIZONTAL IN SIX VERTICALS. DOWELS SHALL BE GROUDED INTO A CONE IN VERTICAL ALIGNMENT, EVEN THOUGH IT IS IN AN ADJACENT CELL TO THE VERTICAL WALL REINFORCEMENT. |
| 4. | | 14. | PROVIDE CONTINUOUS HORIZONTAL WALL REINFORCING 9 GA. GALVANIZED |

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| | LADDER TYPE DUR-O-WALL (OR EQUIVALENT) AT 16" O.C. | | |
| 15. | PROVIDE HORIZONTAL JOINT REINFORCEMENT AT DOORS AND WINDOWS FOR FIRST AND SECOND BLOCK COURSE ABOVE AND BELOW APERTURES. RUN REINFORCING CONTINUOUS OR EXTEND TWO FEET FROM APERTURE EDGE. | 5. | WHERE STEEL FRAMING MEMBERS ARE COMPONENTS OF ASSEMBLIES INDICATED FOR A FIRE-RESISTANCE RATING, INCLUDING THOSE REQUIRED FOR COMPLIANCE WITH GOVERNING REGULATIONS, PROVIDE MEMBERS WHICH HAVE BEEN APPROVED BY GOVERNING AUTHORITIES HAVING JURISDICTION. |
| 16. | WIRE REINFORCEMENT SHALL BE LAPPED AT LEAST 6" AT SPLICES AND SHALL CONTAIN AT LEAST ONE CROSS WIRE OF EACH PIECE OF REINFORCEMENT IN THE LAPPED DISTANCE. | 6. | PROTECT LIGHT GAUGE STEEL FRAMING MEMBERS FROM RUSTING AND DAMAGE. DELIVER TO PROJECT SITE IN BUNDLES, FULLY IDENTIFIED WITH NAME, BRAND, TYPE AND GRADE. STRENGTH OF GROUND IN A DRY VENTILATED SPACE OR PROTECT WITH SUITABLE WATERPROOF COVERINGS. |
| 17. | CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE OF MASONRY IN EACH GROUT POUR WHEN THE POUR HEIGHT EXCEEDS 5'. CLEANOUTS TO BE SAW-CUT 3" X 3". | 7. | WITH EACH TYPE OF STEEL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, UNITS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE STEEL FRAMING SYSTEM. |
| 18. | CONSOLIDATE GROUT POURS AT THE TIME OF PLACEMENT BY MECHANICAL MEANS AND RECONSOLIDATE AFTER INITIAL WATER LOSS AND SETTLEMENT. | 8. | FABRICATE METAL FRAMING COMPONENTS OF STRUCTURAL QUALITY SHEET STEEL WITH A MINIMUM YIELD POINT OF 50,000 PSI FOR STUDS, AND 33,000 PSI FOR RUNNERS. ASTM A653. |
| 19. | SEE DRAWINGS FOR MANUFACTURER CONTROL JOINT LOCATIONS. SPACE AT 26"-0" O.C. AT EXTERIOR WALLS, UNLESS NOTED OTHERWISE. | 9. | SCREWS SHALL AS BE RECOMMENDED BY MANUFACTURER. |
| 20. | SUBMITTALS: | | |
| a) | SUBMIT PROPOSED GROUT MIX DESIGN PRIOR TO CONSTRUCTION. | 10. | PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A525 WITH A Z60 COATING. |
| b) | SUBMIT PROPOSED MORTAR MIX DESIGN PRIOR TO CONSTRUCTION. | 11. | PROVIDE MANUFACTURER'S STANDARD STRUCTURAL "C" SHAPED STEEL STUDS OF SIZE, SHAPE, AND GAUGE INDICATED, WITH A NOMINAL 1/8"-F/LANGE AND MINIMUM 1/2" FLANGE RETURN LIP. |
| c) | SUBMIT DETAILED SHOP DRAWINGS OF REINFORCING BARS SHOWING NUMBER, SIZE, AND LOCATION. INCLUDE BAR LISTS AND BEND DIAGRAM. | 12. | INSTALL CONTINUOUS TRACKS SIZES TO MATCH STUD DEPTH. ALIGN TRACKS ACCURATELY TO LAYOUT AT BASE AND TOPS OF STUDS. SECURE TRACKS AS NOTED ON DRAWINGS, DO NOT EXCEED 24" O.C. SPACING FOR NAIL OR POWER-DRIVEN FASTENERS, OR 16" O.C. FOR OTHER TYPES OF ATTACHMENT. PROVIDE FASTENERS AT CORNERS AND ENDS OF TRACKS. |
| d) | SUBMIT COMPRESSIVE STRENGTH TESTS OF PROPOSED MASONRY STUDS PRIOR TO CONSTRUCTION. MASONRY UNITS ARE TO BE TESTED IN ACCORDANCE WITH ASTM C140. | 13. | FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS, AS SHOWN FOR THE WALL SYSTEM, WITH SEPARATE STUDS AND DO NOT BRIDGE THE |
| 21. | A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS: | | |
| a) | SAMPLE AND TEST GROUT IN ACCORDANCE WITH ASTM C1019 FOR EACH 5000 SQ. FT. OF MASONRY. | | |
| b) | SUMP TESTS - ASTM C134. | | |
| 22. | PROVIDE #8 DEEP PRECAST REINFORCED CONCRETE UNITS OVER ALL MASONRY OPENINGS NOT SHOWN TO HAVE A STRUCTURAL BEM. MINIMUM END BEARING = 8". UNIT WIDTH TO MATCH MASONRY WIDTH. | | |

STRUCTURAL STEEL

- | | | | |
|----|--|-----|---|
| 1. | STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS," LATEST EDITION, EXCEPT CHAPTER 4.2.1, CODE OF STANDARD PRACTICE. | 14. | WELDING OF LATERAL BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED. |
| 2. | WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1. ALL WELDING SHALL BE PERFORMED USING E70XX, LOW HYDROGEN ELECTRODES, U.N.O. ELECTRODES ARE TO BE PROTECTED FROM MOISTURE. | 15. | RESISTANCE TO BENDING AND ROTATION ABOUT THE MINOR AXIS SHALL BE PROVIDED BY MECHANICAL LATERAL BRACING WHERE REQUIRED. |
| 3. | ALL BOLTS TO BE 3/4" DIAMETER
UNLESS NOTED OTHERWISE, SHOP CONNECTIONS MAY BE WELDED OR BOLTED. WELDS ARE TO BE EQUAL IN STRENGTH TO BOLTS. ALL FIELD CONNECTIONS ARE TO BE BOLTED WITH ASTM A325N OR A490 BOLTS (BEARING TYPE BOLTS WITH THREADS IN THE SHEAR PLANE) INCLUDING SUTLETS NUTS AND PLAN HARDENED WASHERS. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT UNLESS OTHERWISE NOTED. | 16. | ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE DONE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED. |
| | SIZE AND USE OF HOLES: SEE ASC TABLE 3.31 U.N.O. | 17. | WELDING OF MEMBERS LIGHTER THAN 18 GAUGE SHALL NOT BE PERMITTED. |
| a) | OVERSIZED OR LONG-SLOTTED HOLES ARE NOT PERMITTED | 18. | SPLICES SHALL NOT BE PERMITTED. |
| b) | MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16" | 19. | MINIMUM NUMBER OF EQUALLY SPACED HORIZONTAL LATERAL BRACING FOR THE HEIGHTS SHOWN:
UP TO 10' - 1 ROW
10' TO 14' - 2 ROWS
ABOVE 14' - 4 AT 4' CENTERS |
| c) | LARGER HOLES ARE PERMITTED IN STANDARD COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 3/8", HARDENED WASHERS, TO COVER THE LARGER HOLE, SHALL BE PROVIDED. | 20. | FOR WELDED CONNECTIONS, FUSION WELDING IS RECOMMENDED WITH A DIRECT CURRENT WELDER OF 200 OR MORE AMPERE CAPACITY, USE A HEAT OF 60 TO 90 AMPERES (DEPENDENT ON THE GAUGE OF METAL) ALONG WITH ASTM E60 ELECTRODES. |
| d) | LARGER HOLES ARE NOT PERMITTED IN WIND FRAME COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16", SLOTTED HOLES: 1/4" PLATE WASHER OR A CONTINUOUS BAR WITH STANDARD HOLES, HAVING A SIZE SUFFICIENT TO COMPLETELY COVER THE SLOT AFTER INSTALLATION, AND A MIN. OF 5/16" THICK SHALL BE PROVIDED. TACK WELD NOT TO BOLT AFTER ERECTION. | 21. | CONTRACTOR TO SUBMIT THE FOLLOWING:
a) SUBMIT CERTIFICATE OF MATERIALS FROM THE MANUFACTURER TO SHOW COMPLIANCE WITH THESE SPECIFICATIONS AND RELATED DRAWINGS. |
| | | 22. | SUBMITTED SHOP DRAWINGS MUST BE CHECKED AND SIGNED BY THE GENERAL CONTRACTOR. |

PRE-ENGINEERED WOOD TRUSSES

- | | | | | | | | | | | | |
|--|---|-------------|--------|---------|--------|------------|---------|----------|--------|-------------------|--|
| <p>OPENINGS FOR MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR PRIOR TO FABRICATION OF MATERIALS.</p> | <p>THIS SECTION DEFINES WOOD-ENGINEERED, PREFABRICATED, METAL PLATE CONNECTED WOOD ROOF TRUSSES AS "WOOD TRUSSES".</p> | | | | | | | | | | |
| <p>SHOP PAINT - METAL ALKYD-OIL PRIMER, ANY OF THE FOLLOWING SEE ARCHITECT FOR PREFERRED COLOR.</p> | <p>WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" 1991 EDITION, PUBLISHED BY THE NATIONAL FORESTRY PRODUCT ASSOCIATION, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION, TP1 1-86", PUBLISHED BY THE TRUSS PLATE INSTITUTE; AND THE APPLICABLE BUILDING CODE LISTED IN THE MISCELLANEOUS SECTION OF THESE SPECIFICATIONS.</p> | | | | | | | | | | |
| <table border="0"> <tr> <td>MANUFACTURER</td> <td>DESIGNATION</td> </tr> <tr> <td>PORTER</td> <td>NO. 298</td> </tr> <tr> <td>MOBILE</td> <td>NO. 137812</td> </tr> <tr> <td>TIMECEM</td> <td>NO. 1009</td> </tr> <tr> <td>AMERON</td> <td>NO. 5102 AMERCOAT</td> </tr> </table> | MANUFACTURER | DESIGNATION | PORTER | NO. 298 | MOBILE | NO. 137812 | TIMECEM | NO. 1009 | AMERON | NO. 5102 AMERCOAT | <p>THE WOOD TRUSS MANUFACTURER MUST PARTICIPATE IN A CODE APPROVED THIRD PARTY QUALITY ASSURANCE PROGRAM SUCH AS THE TRUSS PLATE INSTITUTE'S "QUALITY CONTROL INSPECTION PROGRAM" OR EQUIVALENT.</p> |
| MANUFACTURER | DESIGNATION | | | | | | | | | | |
| PORTER | NO. 298 | | | | | | | | | | |
| MOBILE | NO. 137812 | | | | | | | | | | |
| TIMECEM | NO. 1009 | | | | | | | | | | |
| AMERON | NO. 5102 AMERCOAT | | | | | | | | | | |
| <p>SHOP PAINT ALL SURFACES OF STEEL EXCEPT ANCHOR BOLTS AND SURFACE TO BE FIELD WELDED. APPLY PAINT IN ACCORDANCE WITH SSPC-FP1. SHOP FIELD PAINT ALL SURFACE PAINTING, APPLY PAINT IN SUFFICIENT VOLUME OR COATS TO PROVIDE A MINIMUM DRY FILM THICKNESS OF AT LEAST 3 MILS BUT NOT MORE THAN 5 MILS.</p> | <p>WOOD TRUSS MEMBERS AND CONNECTIONS SHALL BE DESIGNED FOR ALL LOADS SHOWN ON THE CONTRACT DOCUMENTS INCLUDING: LIVE, DEAD, AND CONCENTRATED LOADS, PLUS WIND LOADS IN ACCORDANCE WITH THE APPLICABLE BUILDING CODE:</p> | | | | | | | | | | |
| <p>SURFACE PREPARATION - PREPARE STEEL SURFACE IN ACCORDANCE WITH SSPC-SP3 POWER TOOL CLEANING. ANY METHOD IN CONFORMANCE WITH AN SSPC SPECIFICATION OF HIGHER QUALITY THAN LISTED WILL BE ACCEPTABLE. AT OPTION OF CONTRACTOR, INVELEGATOR MAY BE USED FOR PREPARATION OF STEEL SURFACES, PROVIDING RESULTANT SURFACE IS EQUAL IN ALL RESPECTS TO THOSE REQUIRED.</p> | <p>a. MINIMUM SUPERIMPOSED DEAD LOADS:
 1. TOP CHORD _____ 20 PSF
 2. BOTTOM CHORD _____ 10 PSF</p> | | | | | | | | | | |
| <p>A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING TESTS.</p> | <p>DURATION OF LOAD FACTORS:
 ROOF DL+LL+WL 1.33
 FLOOR DL+LL 1.25
 FLOOR DL+LL 1.00</p> | | | | | | | | | | |
| <p>a) VISUALLY INSPECT ALL STEEL MEMBERS AND CONNECTIONS.</p> | | | | | | | | | | | |
| <p>b) TEST 50 PERCENT OF FULL PENETRATION WELDS.</p> | | | | | | | | | | | |

- ONE COPY OF ALL TEST REPORTS SHALL BE SENT DIRECTLY TO OWNER, ARCHITECT, STRUCTURAL ENGINEER, AND GENERAL CONTRACTOR.

10. STRUCTURAL STEEL SHAPES, TEES – ASTM A992.

11. STRUCTURAL STEEL ANGLES, CHANNELS, PLATES, BARS – ASTM A36.

12. STRUCTURAL STEEL TUBING – ASTM A500 GRADE B OR C.

13. STEEL PIPE – ASTM A53 GRADE B.

14. ANCHOR BOLTS – F1554 GRADE 36.

15. NO SPLICES SHALL BE PERMITTED IN ANY STRUCTURAL STEEL MEMBER UNLESS SHOWN ON APPROVED SHOP DRAWINGS.

16. SUBMITTALS: CONTRACTOR SHALL SUBMIT DETAILED SHOP DRAWINGS SHOWING ALL STRUCTURAL STEEL LAYOUTS AND DETAILS, SIZES OF MEMBERS, TYPE OF STEEL, CONNECTION DETAILS, WELDS, BOLTS, ETC., AS REQUIRED TO FABRICATE AND ERECT ALL STRUCTURAL STEEL FRAMING. ALL CONNECTIONS NOT SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE THE DESIGNER'S AND SUBMITTER'S RESPONSIBILITY. DRAWINGS, SIGNED AND SEALED BY A REGISTERED FLORIDA ENGINEER, SHALL STAMPS SHALL ALSO BE SUBMITTED ON SEALED DRAWINGS.

17. NON-SHRINK GROUT SHALL BE: NONMETALLIC SHRINKAGE-RESISTANT GROUT, PREMIXED, NONMETALLIC, NONCORROSIVE, NONSTAINING PRODUCT CONTAINING SELECTED SILICA SANDS, PORTLAND CEMENT, SHRINKAGE COMPENSATING AGENTS, PLASTIZING AND WATER-REDUCING AGENTS, COMPLYING WITH CE-CR-600-1922.

18. NO FIELD WELDING OF GALVANIZED MEMBERS IS PERMITTED.

19. ERECTION

a) BEFORE ERECTION, THE CONTRACTOR IS TO REMOVE ALL MUD, DIRT OR OTHER FOREIGN MATTER, WHICH ACCUMULATES DURING HANDLING AND STORAGE.

b) DRIFTING TO ENLARGE UNFAIR HOLES WILL NOT BE PERMITTED. DRILL SUCH HOLES TO ACCOMMODATE THE NEXT LARGER SIZE FASTENER, WHERE POSSIBLE.

c) AFTER ERECTION, CLEAN ALL WELDS, BOLTS, DETAIL CONNECTIONS, AND ABRASED AREAS WHERE SHOP COAT HAS BEEN DAMAGED. SPOT AND PRIME AREAS USING SAME MATERIAL AS SHOP COAT.

d) SET ALL MEMBERS SO THAT, IN THEIR FINAL LOCATION, LEVEL, PLUMBNESS AND ALIGNMENT ARE WITHIN THE TOLERANCES PRESCRIBED BY AISC CODE.

WOOD TRUSS DESIGN SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION:

A) SPAN LENGTH, OVERHANGS AND LEAVE DIMENSIONS, SLOPE AND SPACING OF THE WOOD TRUSSES.

B) ALL DESIGN LOADS AND THEIR POINTS OF APPLICATION, VALLEY AND CONVENTIONAL FRAMING MUST BE CONSIDERED.

C) ADJUSTMENTS TO ALLOWABLE VALUES, DURATION OF LOAD FACTORS, ETC.

D) REACTIVE FORCES AND THEIR LOCATIONS.

E) BEARING TYPE AND MINIMUM BEARING LENGTH.

F) DEFLECTIONS, SPAN AND REACTION.

G) METAL CONNECTOR PLATE TYPE, GAUGE, SIZE, AND LOCATION.

H) LUMBER SIZE, SPECIES, GRADE AND MOISTURE CONTENT.

I) LOCATION AND CONNECTION DESIGN OF REQUIRED CONTINUOUS LATERAL BRACING.

J) TRUSS SPICES MUST BE DETAILED. THIS INCLUDES "PIGGY BACK" TRUSSES.

K) CONNECTION DETAILS: TRUSSES TO BEARING, TRUSSES TO TRUSSES, TRUSSES TO TRUSS GIRDER, PIGGY BACK TO TRUSS, ETC.

L) BRACING: NOTE MINIMUM BOTTOM CHORD BRACING AND CROSS BRACING REQUIREMENTS BELOW.

7. DEFLECTIONS: (SEE REQUIREMENT OTHERWISE)

A) SPAN LIVE LOAD: LESS THAN OR EQUAL TO SPAN/360.

B) SPAN TOTAL LOAD: LESS THAN OR EQUAL TO SPAN /240.

8. FIRE RETARDANT WOOD IS NOT ALLOWABLE.

9. SUPPORTS: WOOD TRUSSES SHALL BE DESIGNED WITH AT LEAST ONE HORIZONTAL ROLLER CONNECTION PER SPAN SO THAT NO HORIZONTAL REACTIONS ARE INDUCED ON SUPPORTS UNDER DEAD OR LIVE LOADS.

10. WOOD TRUSSES MUST BE CHECKED FOR WIND, WIND VELOCITY, DESIGN WINDY PRESSURES, AND TYPE OF STRUCTURE FOR WIND, MUST BE SHOWN ON THE SUBMITTED SHOP DRAWINGS

11. CONTINUOUS BOTTOM CHORD LATERAL BRACING IS REQUIRED AT A MAXIMUM SPACING OF 10' O.C. UNLESS NOTED OTHERWISE. BOTTOM CHORD BRACING IS CONTINUOUS FROM ONE END OF THE BUILDING TO OTHER END. OVERLAP CONTINUOUS BRACING AT LEAST AT THREE SPACES. USE A MINIMUM OF 2 x 4 GRADE MARKED LUMBER AT LEAST 16' LONG, WITH 2-1/2" NAILS AT INTERMEDIATE AND 3-1/2" NAILS AT END CONNECTIONS.

12. CROSS BRACING IS REQUIRED AT CONTINUOUS LATERAL BRACING UNITS

COLD-FORM STEEL FRAMING

- | | | |
|----|--|--|
| 1. | ALL STEEL FRAMING SHALL CONFORM TO "THE SPECIFICATION FOR THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS," LATEST EDITION, BY THE AISI. | O.C. ALONG THE LENGTH OF THE LATERAL BRACING. CROSS BRACING IS ACCOMPLISHED BY ATTACHING DIAGONAL WEB BRACING TO OPPOSITE SIDES OF THE SAME GROUP OF SIMILAR WEB MEMBERS. SLOPE CROSS BRACING IN OPPOSITE DIRECTIONS AT APPROXIMATELY 45 DEGREES FORMING A CROSS "X". USE A MINIMUM OF 2 X 4 GRADE MARKED LUMBER WITH AT LEAST 2-16D NAILS AT EACH CONNECTION. |
| 2. | WELDED CONNECTIONS SHALL CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION, D1.0" BY THE AWS. | 13. TRUSS ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF TRUSS SYSTEM DURING CONSTRUCTION. |
| 3. | ASTM A-568 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR STEEL, CARBON AND HIGH STRENGTH LOW-ALLOY HOT ROLLED SHEET AND COLD ROLLED SHEET. | 14. HANDLING, INSTALLATION, AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "TPI 1-95", PUBLISHED BY THE TRUSS PLATE INSTITUTE. |
| 4. | ALL STEEL FRAMING SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN LIGHT GAUGE STEEL FRAMING INSTALLATION. | |

- ALL WOOD TRUSSES SHALL BE FASTENED TO THEIR SUPPORTS WITH APPROVED HURRICANE CLIPS OR STRAPS.
16. CONTRACTOR SHALL ORDER AND INSTALL HURRICANE CLIPS OR STRAPS FOR THE UPLIFT AND LATERAL FORCES SHOWN ON THE SUBMITTED WOOD TRUSS DESIGN CALCULATIONS.
17. ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONG-TIE CO. OR BY APPROVED EQUIVALENT MANUFACTURER.
18. ALL CONNECTION HARDWARE IS TO BE FULLY FASTENED PER MANUFACTURER'S REQUIREMENTS WITH MAXIMUM NUMBER AND SIZE NAILS OR BOLTS UNLESS NOTED OTHERWISE.
19. PILING OF PLYWOOD ON WOOD TRUSSES IS NOT ALLOWED.
20. INSTALLATION OF BROKEN, DAMAGED, WARPED, OR IMPROPERLY REPAIRED WOOD TRUSSES IS NOT ALLOWED.
21. IMPROPER OR UNAUTHORIZED FIELD ALTERATIONS OF WOOD TRUSSES IS NOT ALLOWED.
22. ALL CONNECTIONS AND BRACING MUST BE INSTALLED BEFORE SHEATHING THE ROOF.
23. GABLE ENDWALL TRUSSES MUST TRANSFER LATERAL LOADS TO THE SHEAR WALLS AND/OR THE ROOF DIAPHRAGM.
24. WOOD TRUSS DESIGN ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS.
25. SUBMITTALS: ALL SUBMITTALS SHALL BEAR THE EMBOSSED SEAL OF A LICENSED FLORIDA ENGINEER AND SHALL BE SUBMITTED FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO WOOD TRUSS FABRICATION.
 - A) SUBMIT SEALED WOOD TRUSS DESIGN CALCULATIONS AND PROFILES FOR EACH TYPE OF TRUSS, WITH PERMANENT BRIDGING REQUIREMENTS.
 - B) SUBMIT WOOD TRUSS ERECTION PLAN, INCLUDING CONNECTION DETAILS.
 - C) SUBMIT WOOD TRUSS TEMPORARY ERECTION BRACING PLAN.

CARPENTRY

3. DIMENSIONED LUMBER SHALL BE DRESSED S4S, AND SHALL BEAR THE GRADE STAMP OF THE MANUFACTURER'S ASSOCIATION.
2. ALL LUMBER SHALL BE SOUND, SEASONED, AND FREE FROM WARP.
3. ALL LUMBER SHALL BE SOUTHERN PINE NO. 2 GRADE OR BETTER; WITH 19% MAXIMUM MOISTURE CONTENT, U.N.O. ON THE PLANS.
4. ALL LUMBER IN CONTACT WITH MASONRY OR CONCRETE SHALL BE PRESSURE TREATED.
5. PRESSURE TREATED LUMBER SHALL BE IMPREGNATED WITH A CCA SALT TREATMENT IN ACCORDANCE WITH F-5, TT-W-571 AND BEAR THE AMERICAN WOOD PRESERVERS INSTITUTE QUALITY MARK LP-2.
6. PLYWOOD WALL AND ROOF SHEATHING SHALL BE APA RATED SHEATHING, EXPOSURE 1 DURABILITY CLASSIFICATION.
7. ROOF SHEATHING TO BE INSTALLED WITH ONE PLYWOOD CLIP PER SPAN BETWEEN PANEL EDGES UNLESS NOTED OTHERWISE. FOR PANEL WIDTHS LESS THAN 24" WIDE, INSTALL SOLID 2X BLOCKING AT EACH PANEL EDGE. INSTALL SOLID 2X BLOCKING BETWEEN SUPPORTS AT ALL HIP, RIDGES, VALLEYS, AND CHANGES IN ROOF SLOPE.
8. ALL NAILING AND BOLTING SHALL COMPLY WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION REQUIREMENTS.
9. ALL CONNECTION HARDWARE SHALL BE GALVANIZED AND SUPPLIED BY SIMPSON STRONG-TIE CO. OR EQUIVALENT. SUBMIT CUT SHEETS FOR ALL CONNECTION HARDWARE TO ENGINEER FOR APPROVAL.
10. ALL CONNECTION HARDWARE IS TO BE FULLY FASTENED PER MANUFACTURERS REQUIREMENTS UNLESS NOTED OTHERWISE.

BUILDING DATA

ULTIMATE WIND SPEED (mph): (FIGURE 1609)	150	INTERNAL PRESSURE COEFFICIENT: (Enclosed Building per ASCE 7-22)	+/- 0.18
WIND LOAD FACTOR:	0.6	WIND EXPOSURE CATEGORY:	B
RISK CATEGORY: (TABLE 1604.5)	II	WIDTH OF WALL EDGE STRIP (A):	3.5
ROOF ANGLE (°): (Degrees)	A<7.0	DEAD LOAD RESISTING UPLIFT (0.6D in psf):	10.0
MEAN ROOF HEIGHT (h):	15'-0"	EDGE DISTANCE (0.6h) 0.6 X MEAN ROOF HEIGHT (feet)	9.0
		EDGE DISTANCE (0.2h) 0.2 X MEAN ROOF HEIGHT (feet)	3.0

DESIGN WIND LOADS – COMPONENTS & CLADDING (Values per ASD)

ROOF					WALL				
ZONE	AREA (sf)	DESIGN PRESSURE (psf)			ZONE	AREA (sf)	DESIGN PRESSURE (psf)		
		Positive	Negative	Net Uplift			Positive	Negative	
1	10.0	10.00	-31.71	-21.71	4	10.0	18.21	-19.73	
1	50.0	10.00	-26.85	-16.85	4	50.0	16.34	-17.86	
1	100.0	10.00	-24.76	-14.76	4	100.0	15.53	-17.05	
2	10.0	18.21	-41.82	-31.82	5	10.0	18.21	-24.29	
2	50.0	16.34	-35.58	-25.58	5	50.0	16.34	-20.54	
2	100.0	15.53	-32.89	-22.89	5	100.0	15.53	-18.92	
3	10.0	18.21	-41.82	-31.82					
3	50.0	16.34	-35.58	-25.58	4P	20.0	55.05		
3	100.0	15.53	-32.89	-22.89	5P	20.0	55.05		

- NOTES:**
1. FOR EFFECTIVE AREAS BETWEEN THOSE GIVEN ABOVE THE LOAD MAY BE INTERPOLATED, OTHERWISE USE THE LOAD ASSOCIATED WITH THE LOWER EFFECTIVE AREA.
 2. PLUS AND MINUS SIGNS SIGNIFY PRESSURES ACTING TOWARD AND AWAY FROM THE BUILDING SURFACES, RESPECTIVELY.
 3. SEE FIGURE 2.2.1 FOR PRESSURE COEFFICIENTS FOR CORRESPONDING ZONES.
 4. EXTERIOR GLAZING OPENINGS IN BUILDINGS SHALL COMPLY WITH FLORIDA BUILDING CODE 8TH EDITION (2023) BY EITHER BEING DESIGNED FOR IMPACT RESISTANCE OR BEING PROTECTED BY IMPACT PROTECTIVE SYSTEMS WHEN ULTIMATE WIND SPEED IS 140 MPH OR MORE.

1 DESIGN WIND CRITERIA (ASD VALUES)
NOT TO SCALE

SHEET INDEX

SHEET NUMBER	SHEET TITLE
S001	STRUCTURAL NOTES
S100	FOUNDATION PLAN
S200	ROOF FRAMING PLAN
S300	WALL SECTIONS
S301	STEEL ELEVATIONS AND DETAILS
S400	SECTIONS AND DETAILS
S401	SECTIONS AND DETAILS



3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 20
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-844

ALAN C. GUENTHER, P.E.
FL PE #53308

CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

02.26.24

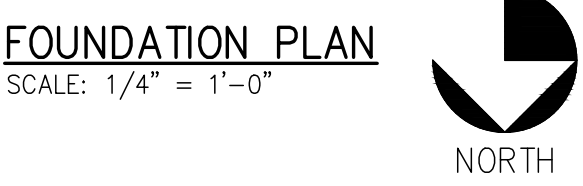
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STRUCTURAL NOTES

S001



LOT DATE: 3.12.2024



STEEL COLUMN SCHEDULE				
MARK	COLUMN SIZE	BASE PLATE	BASE PLATE TYPE	COMMENTS
HSS-5	HSS 5 x 5 x 3/8	3/4 x 12 x 12	TYPE A	(4) 3/4"Ø x 12" F1554-GR36 ANCHOR BOLTS
HSS-9	HSS 9 x 5 x 3/8	1 x 12 x 15	TYPE B	(6) 3/4"Ø x 16" F1554-GR36 ANCHOR BOLTS

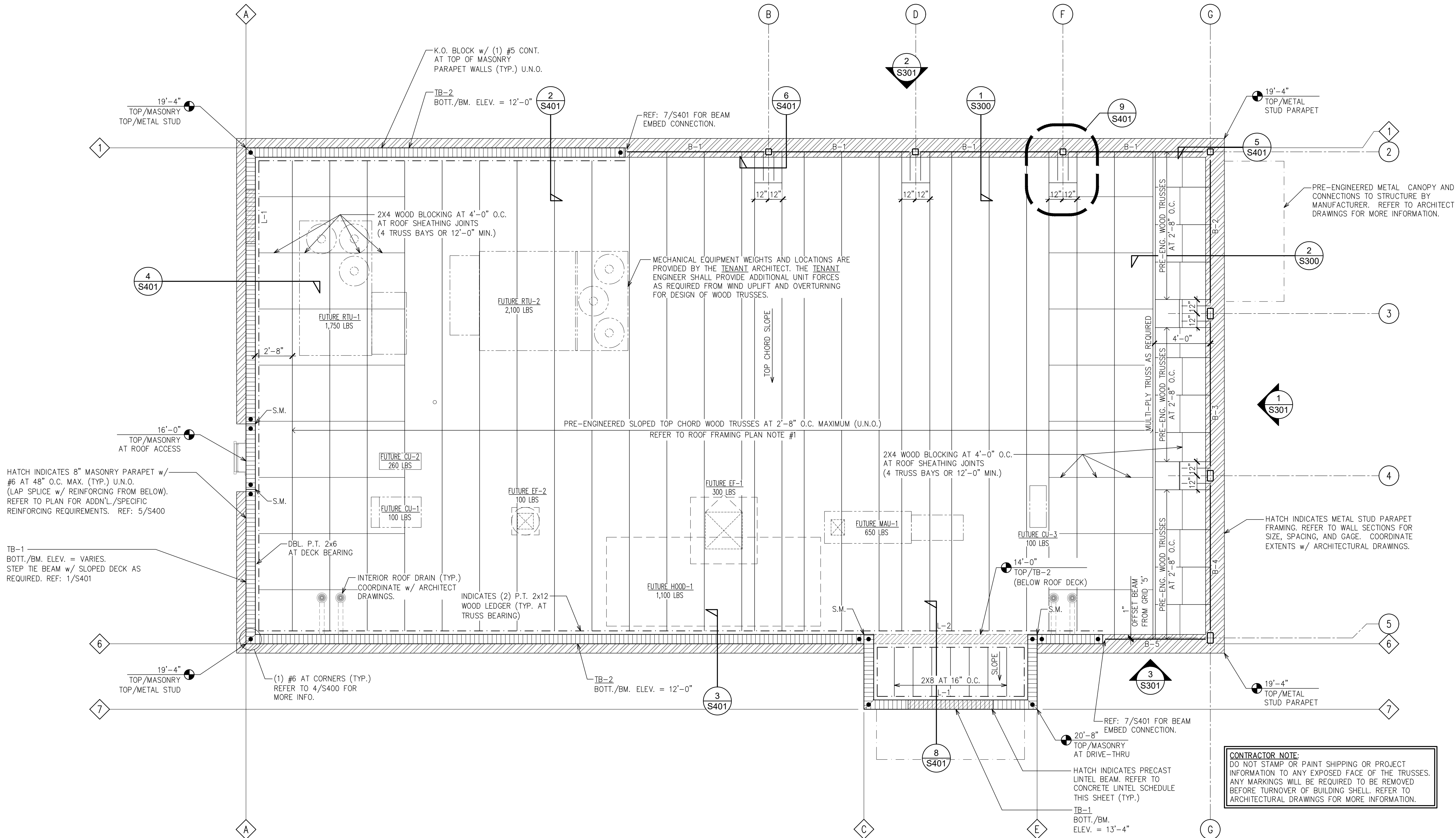
(TYPE A)

(TYPE B)

(TYP. ANCHOR BOLT)

- # FOUNDATION PLAN NOTES:
1. FUTURE CONCRETE SLAB-ON-GRADE AND UNDERSLAB VAPOR RETARDER TO BE SPECIFIED/DESIGNED BY THE TENANT ARCHITECT/ENGINEER UNDER A SEPARATE PERMIT.
 2. TOP OF SLAB ELEVATION = 0'-0" U.N.O.
TOP OF EXTERIOR FOOTING ELEVATION = (-) 1'-4" U.N.O.
 3. CENTER ALL FOOTINGS BELOW WALL OR COLUMN U.N.O.
 4. ALL FOOTING REINFORCING TO BE BOTTOM BARS U.N.O.
 5. REFER TO ARCHITECTURAL/CIVIL FOR EXTERIOR SLAB AND SIDEWALK INFORMATION.
 6. REFER TO ARCHITECTURAL/PLUMBING DRAWINGS FOR FIXTURE/DRAIN LOCATIONS AND REQUIREMENTS.
 7. REFER TO THIS PLAN FOR MASONRY CONTROL JOINT (M.C.J.) LOCATIONS. REFER TO 3/5400 FOR MASONRY CONTROL JOINT DETAIL.
 8. REFER TO CIVIL DRAWINGS FOR BUILDING LOCATION AND BUILDING ORIENTATION ON THE SITE.
 9. ALL WALL FOOTINGS TO BE TYPE "WF2" U.N.O.
 10. REFER TO 7/5400 FOR PIPE PENETRATION DETAIL.
 11. PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONTINUOUS FOOTINGS. REFER TO DETAIL 2/5400 FOR MORE INFO.
 12. REFER TO 1/S001 FOR DESIGN WIND CRITERIA.

EACG
PROFESSIONAL ENGINEERING, INC.
16912 Melissa Ann Dr., Lutz, FL 33558
Ph: 813.963.1906 STRUCTURAL
Alan C. Guenther, P.E. #53308 / C.A. #26813



STEEL BEAM SCHEDULE			
MARK	SIZE	TOP/STEEL ELEVATION	COMMENTS
B-1	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
	W 10X22	13'-6 3/4"	TOP/B-1
	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
B-2	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
	W 10X22	13'-6 3/4" (HI) 13'-3 3/4" (LO)	TOP/B-2
	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
B-3	HSS 5X2X1/4	18'-10"	TOP/HSS
	W 10X22	13'-3 3/4" (HI) 13'-0 3/4" (LO)	TOP/B-3
	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
B-4	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
	W 10X22	13'-0 3/4" (HI) 12'-9 3/4" (LO)	TOP/B-4
	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
B-5	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
	W 10X22	12'-9 3/4"	TOP/B-5
	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS

TIE BEAM SCHEDULE			
MARK	SIZE	REINFORCING BARS	COMMENTS
TB-1	8" X 16"	(1) #5 CONT. EACH COURSE	TYPE A
TB-2	8" X 32"	(1) #5 CONT. EACH COURSE	TYPE B

1. ALL KNOCK-OUT BLOCK COURSES TO BE GROUTED SOLID.

CONCRETE LINTEL SCHEDULE			
MARK	SIZE	REINFORCING BARS	COMMENTS
L-1	8" X 8"	(1) #5 CONT.	TYPE A
L-2	8" X 16"	(2) #5 CONT.	TYPE B

NOTES:
1. REFER TO 6/S400 FOR ADDITIONAL PRECAST LINTEL REQUIREMENTS.
2. ALL LINTELS AND KNOCK-OUT BLOCKS TO BE GROUTED SOLID.

ROOF FRAMING PLAN
SCALE: 1/4" = 1'-0"
NORTH

TRUSS MANUFACTURER NOTES	
1.	TRUSS TOP CHORDS TO BE 2x4 MINIMUM.
2.	ALL TRUSS-TO-TRUSS CONNECTIONS TO BE DESIGNED/SUPPLIED BY TRUSS MFR. SUBMIT CUT SHEETS OF CONNECTION HARDWARE FOR STRUCTURAL REVIEW.
3.	ALL TRUSS ENGINEERING, PLACEMENT, DIMENSIONS, SIZE OF MEMBERS AND CONNECTIONS TO BE VERIFIED BY TRUSS MANUFACTURER.
4.	IF TRUSS LAYOUT DIFFERS FROM THAT REPRESENTED ABOVE, PROVIDE ARCHITECT WITH REVISED LAYOUT FOR SUPERSTRUCTURE REDESIGN.
5.	ALL MECHANICAL DUCT WORK WITHIN THE TRUSSES SHALL BE COORDINATED BY THE CONTRACTOR AND THE TRUSS MANUFACTURER PRIOR TO FABRICATION OF THE TRUSSES.
6.	REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXTENT OF SUSPENDED CEILING BELOW TRUSS BOTTOM CHORDS TYPICAL (NO RIGID CEILING AT TRUSS BOTTOM CHORDS). TRUSS MANUFACTURER TO SPECIFY BOTTOM CHORD TRUSS BRACING MEMBERS, LOCATIONS, AND CONNECTIONS AS REQUIRED.
7.	AT BOTTOM CHORDS WITH NO RIGID CEILING, MINIMUM BOTTOM CHORD BRACING TO BE CONT. 1x4 AT 3'-4" O.C. MAX. AND CONT. 2x4 AT 10'-0" O.C. MAX. (w/ X-BRACING AT 20'-0" O.C. MAX.).

ROOF FRAMING PLAN NOTES:	
1.	ROOF FRAMING TO BE PRE-ENGINEERED 24" DEEP (MINIMUM) WOOD TRUSSES AT 2'-8" O.C. MAXIMUM WITH A SLOPING TOP CHORD AND SHALL BE DESIGNED BY A DELEGATED ENGINEER AND FABRICATED PER APPLICABLE LOADS BY TRUSS MANUFACTURER.
2.	CONTRACTOR/ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING.
3.	TRUSS TOP CHORD SLOPE = 1/4" PER FOOT (MIN.) U.N.O.
4.	ROOF SHEATHING SHALL BE 5/8" EXPOSURE 1 APA RATED 40/20 C-D. REFER TO 5/S300 FOR ROOF SHEATHING FASTENING PATTERN.
5.	BOTTOM OF TRUSS ELEVATION = 12'-0".
6.	CONTRACTOR TO COORDINATE SIZE, WEIGHT, AND LOCATION OF MECHANICAL EQUIPMENT AND PENETRATIONS WITH MECHANICAL/TENANT EQUIPMENT DRAWINGS AND TENANT ARCHITECT (UNDER SEPARATE PERMIT) PRIOR TO JOIST FABRICATION.
7.	MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED MAXIMUM OPERATING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
8.	MECHANICAL UNIT CURB SUPPORTS AND ROOF DECK OPENING SUPPORT FRAMES ARE PER THE TENANT ARCHITECT DRAWINGS AND DESIGNED BY A DELEGATED ENGINEER (UNDER SEPARATE PERMIT).
9.	INDICATES MODEL NUMBER OF STEEL CONNECTION HARDWARE BY SIMPSON STRONG-TIE CO., OR EQUIVALENT U.N.O. ALL CONNECTORS TO BE FULLY NAILED. CONTRACTOR TO VERIFY NET WIND UPLIFT REACTIONS FROM TRUSS MFR. WITH SPECIFIED CONNECTORS AND REPORT ANY DISCREPANCIES TO ARCHITECT/ENGINEER.
10.	S.M. = INDICATES STEP TOP/MASONRY PARAPET.
11.	S.P. = INDICATES STEP TOP/METAL STUD PARAPET.
12.	REFER TO 1/S001 FOR DESIGN WIND CRITERIA.

FWH
Architects

3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM

THE FERBER
COMPANY

151 SAWGRASS CORNERS DR. SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-9443

ALAN C. GUENTHER, P.E.
FL PE #53308

CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

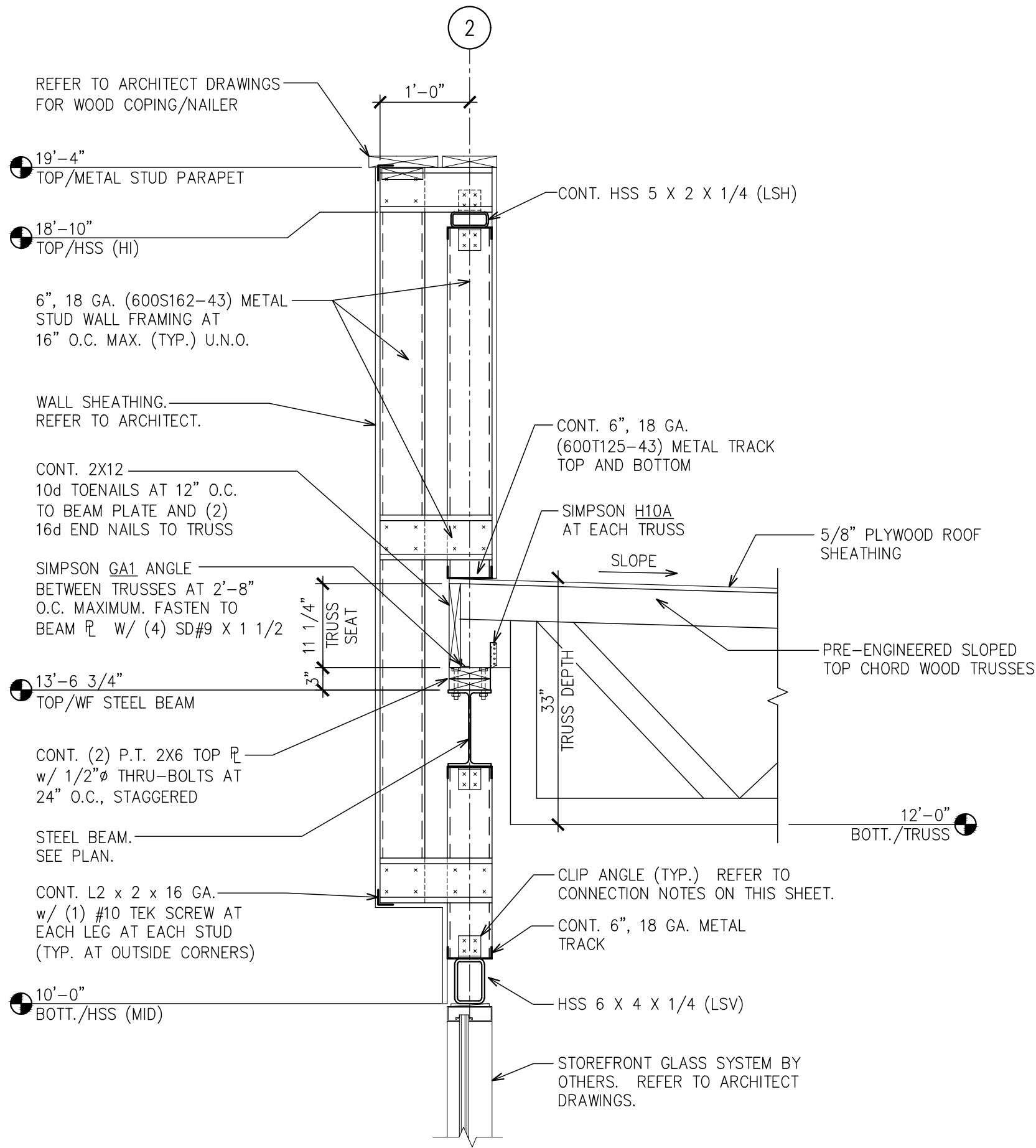
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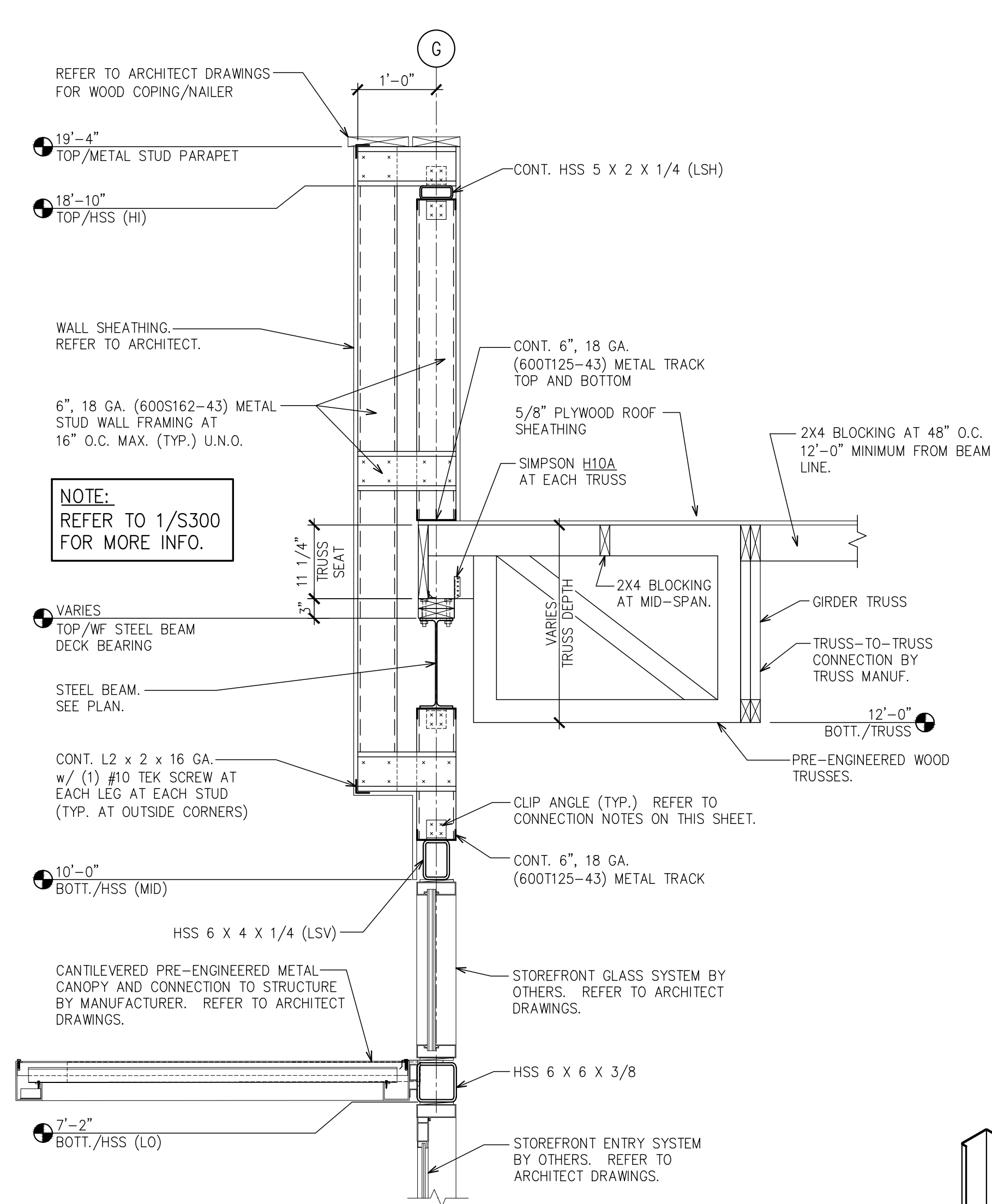
ROOF FRAMING
PLAN

S200

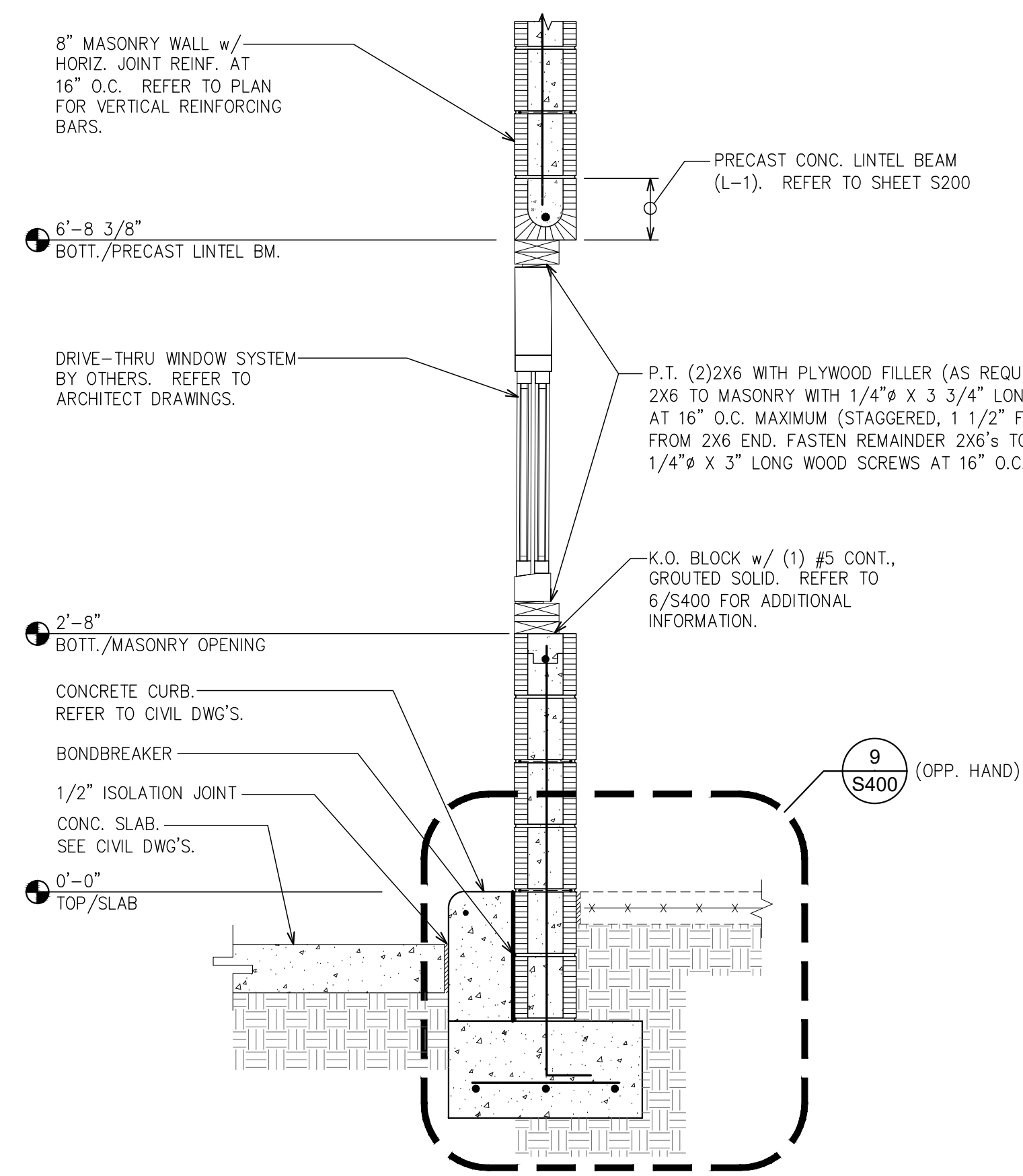
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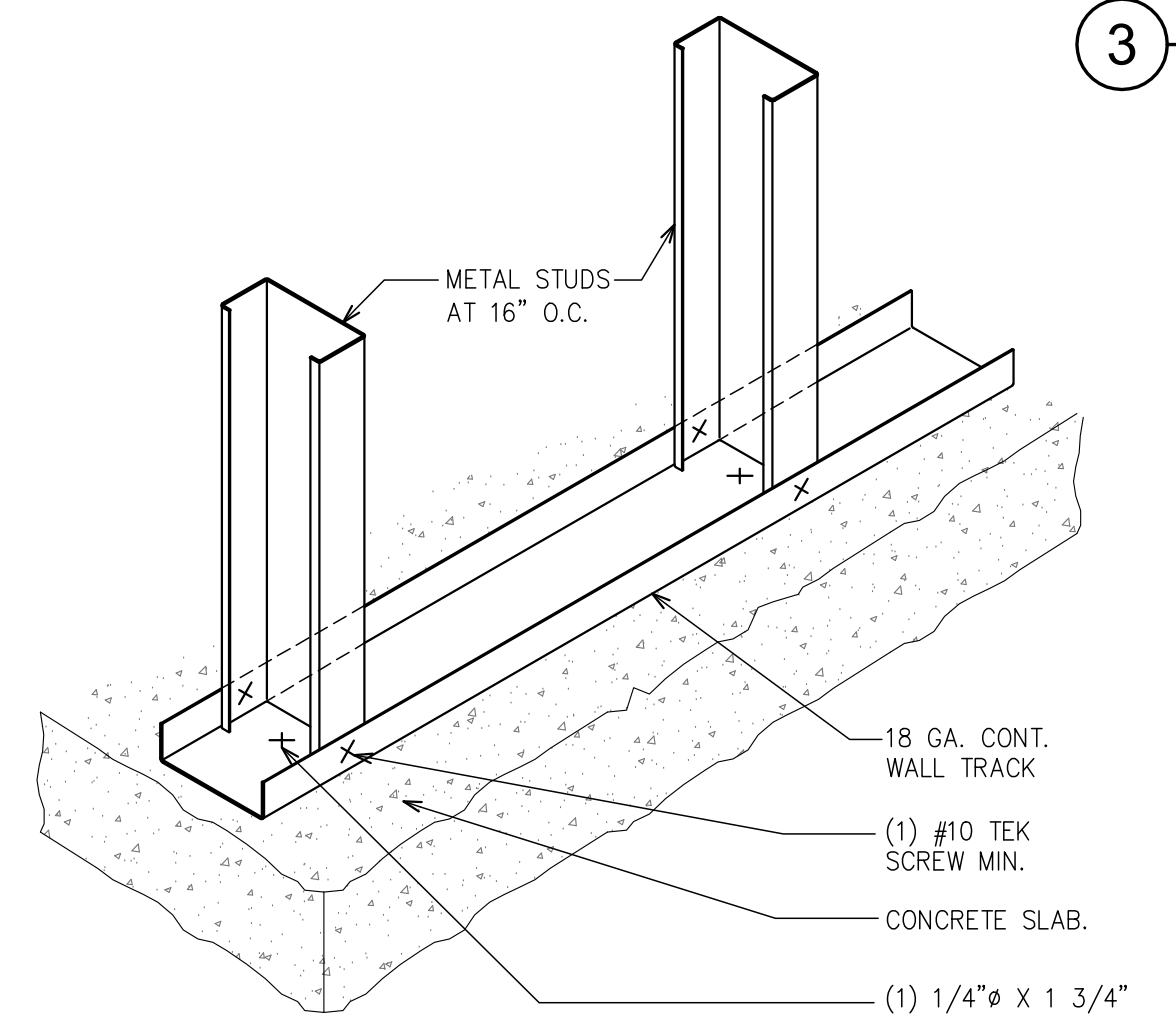
1 WALL SECTION
SCALE: 3/4" = 1'-0"



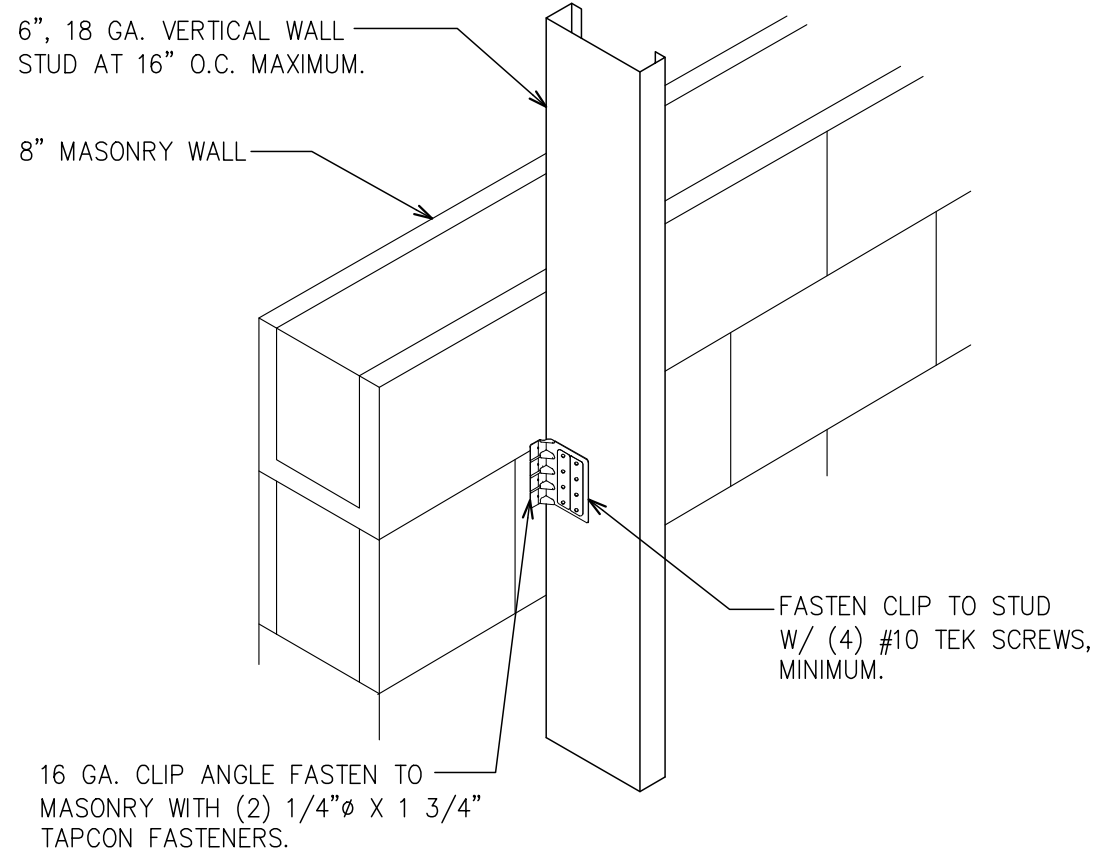
2 WALL SECTION
SCALE: 3/4" = 1'-0"



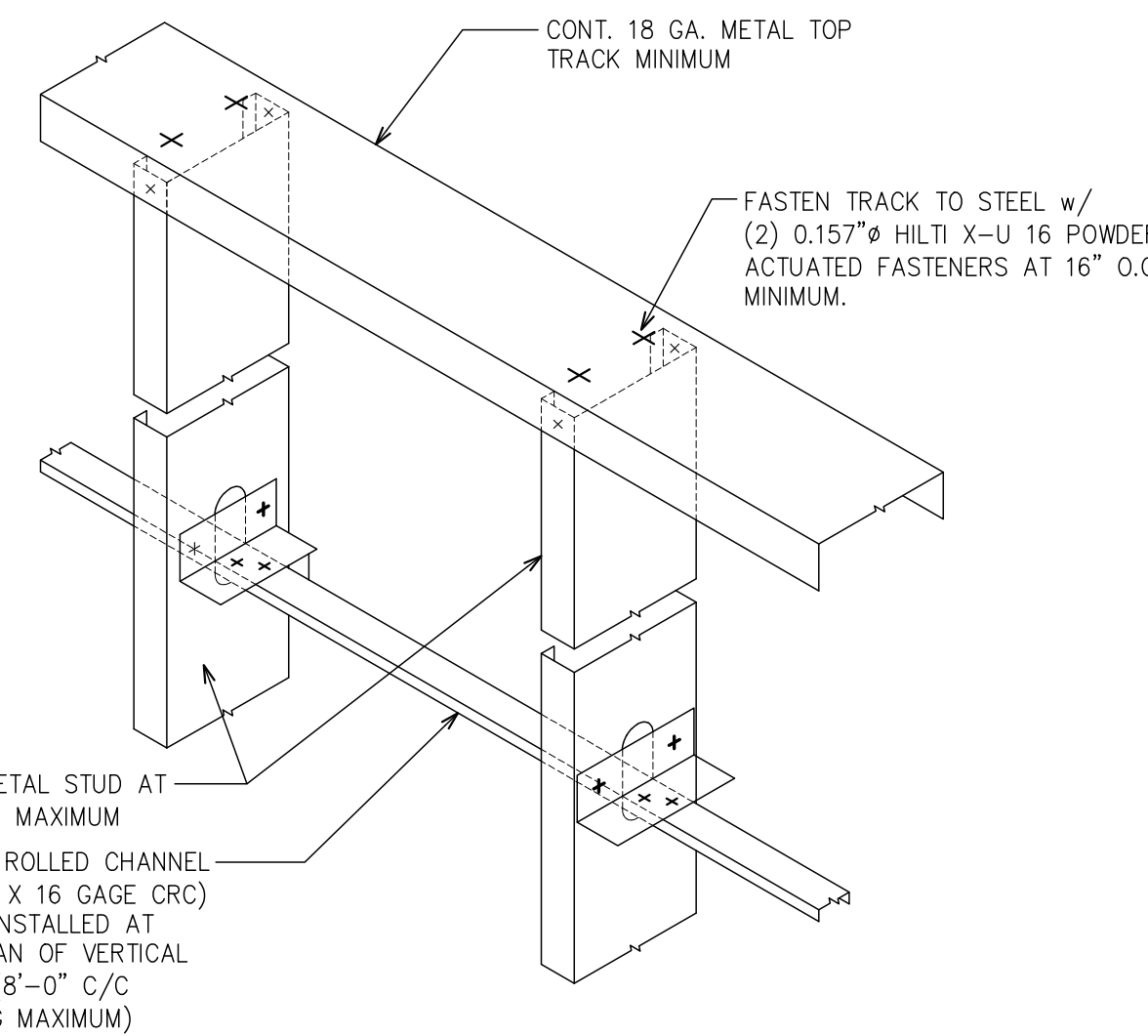
3 WALL SECTION
SCALE: 3/4" = 1'-0"



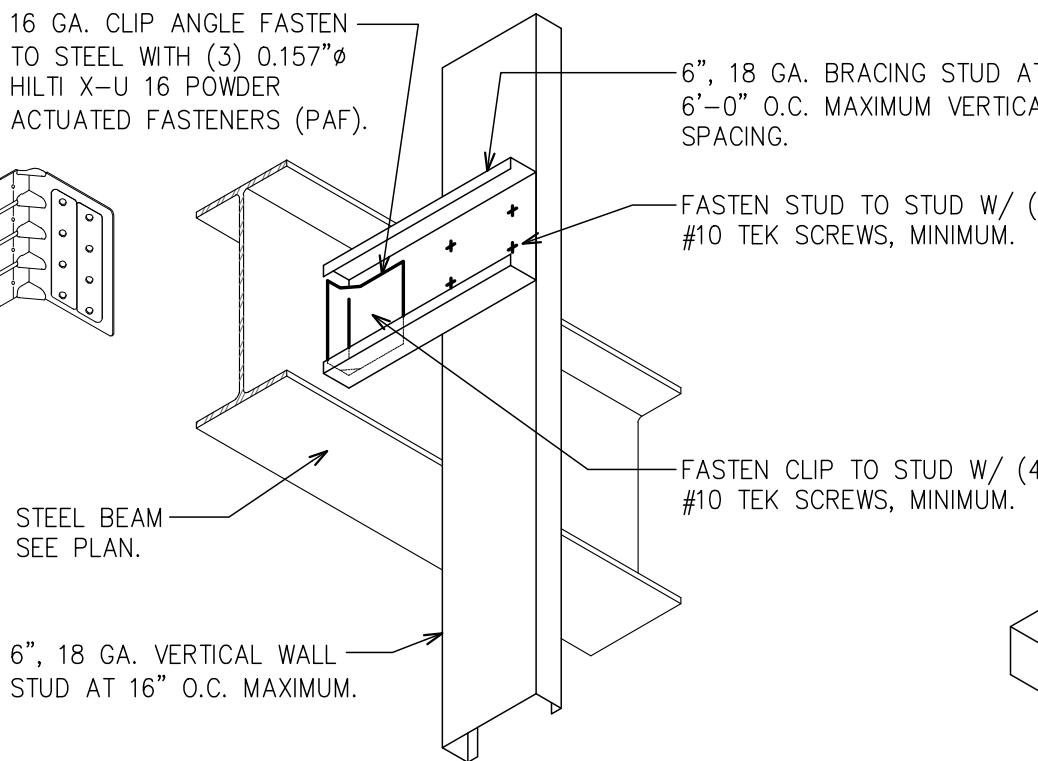
7 BASE TRACK DETAIL
N.T.S.



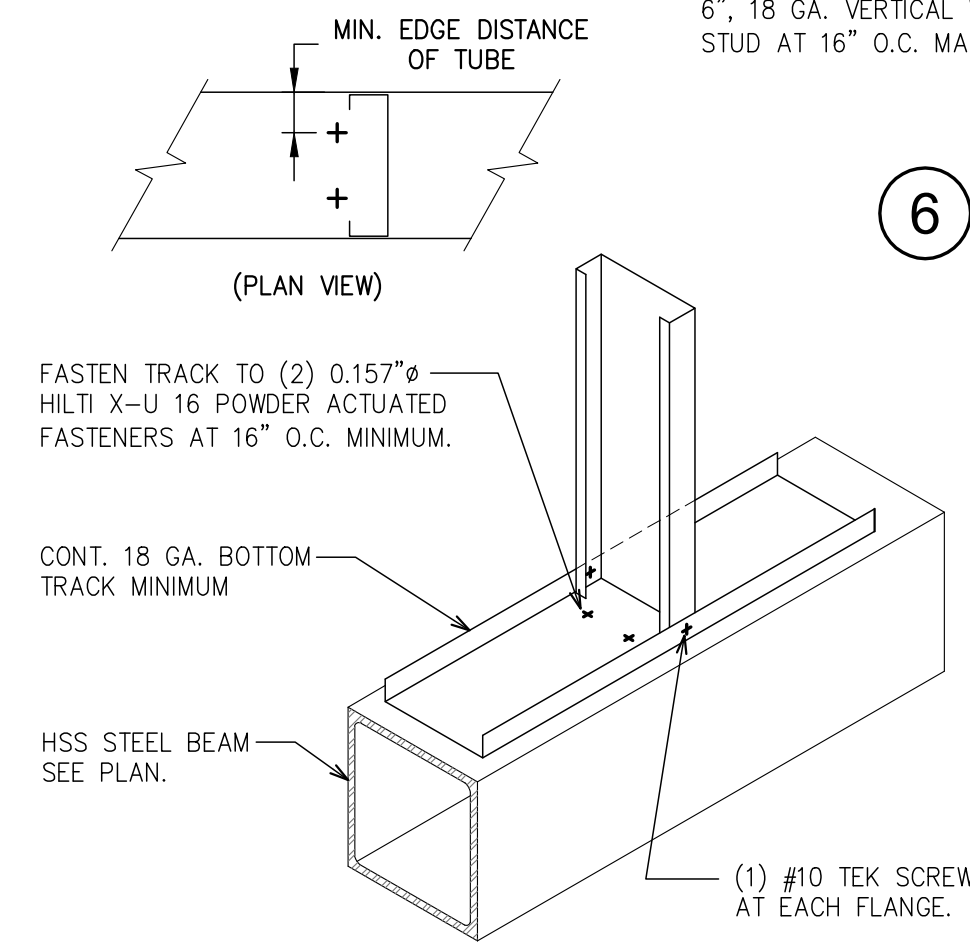
9 BRACING STUD DETAIL
N.T.S.



8 STUD BRACING DETAIL
N.T.S.



6 BRACING STUD DETAIL
N.T.S.



5 STUD TRACK TO STEEL
N.T.S.

4 NOT USED

LIGHT GAUGE FRAMING CONNECTIONS:

- CLIP ANGLE (MINIMUM): 16 GA. L 3 x 2 x 0-4
- METAL STUDS AND/OR CLIP ANGLES SHALL BE CONNECTED TO STRUCTURAL STEEL (3/16" MIN. THICKNESS) WITH (4) 0.157" HILTI X-U 16 POWDER ACTUATED FASTENERS (PAF).
- METAL STUDS AND/OR CLIP ANGLES SHALL BE CONNECTED TO METAL STUDS WITH MINIMUM (4) #10 TEK SCREWS.
- METAL TRACK/RUNNER SHALL BE CONNECTED TO METAL STUD WITH (1) #10 TEK SCREW AT EACH FLANGE (2 SCREWS TOTAL PER STUD).
- CONTINUOUS METAL STUD TRACKS SHALL BE CONNECTED TO STRUCTURAL STEEL WITH (2) 0.157" HILTI X-U 16 POWDER ACTUATED FASTENERS AT 12" O.C. MINIMUM.
- CONTINUOUS TRACKS SHALL BE FASTENED TO CONCRETE AND/OR MASONRY WITH (1) 1/4" x 1 3/4" TAPCON FASTENERS AT 16" O.C.
- CLIP ANGLES SHALL BE FASTENED TO CONCRETE/MASONRY WITH (3) 1/4" x 1 3/4" TAPCON FASTENERS.
- CONNECT PLYWOOD SHEATHING TO METAL STUDS WITH #10 TEK FLATHEAD SCREWS AT 6" O.C. AT PANEL EDGES AND AT 8" O.C. AT INTERIOR SUPPORTS.
- CONNECT 5/8" THICK DENSGLASS SHEATHING TO METAL STUDS WITH #6 1-1/4" BUGLE HEAD (FINE THREAD) SCREWS AT 6" O.C. AT PANEL EDGES AND AT 6" O.C. AT INTERIOR SUPPORTS (MINIMUM).
- AS REQUIRED, THE CONTRACTOR SHALL PROVIDE CLIP ANGLES FOR ALL METAL STUDS SO PROPER ALIGNMENT CAN BE ATTAINED. SEE FASTENING REQUIREMENTS ABOVE.

LIGHT GAUGE FRAMING NOTES:

- THE LIGHT GAUGE MEMBER SIZES INDICATED ON THE DRAWINGS ARE A MINIMUM DEPTH AND GAUGE REQUIRED TO MEET THE DESIGN INTENT AND ARE BASED ON THE PROPERTIES AND MATERIALS OF THE STEEL STUD MANUFACTURERS ASSOCIATION (SSMA) STANDARDS. ANY MANUFACTURER WHOSE PRODUCT GEOMETRIES MEETS OR EXCEED THE SSMA STANDARDS ARE ACCEPTABLE.

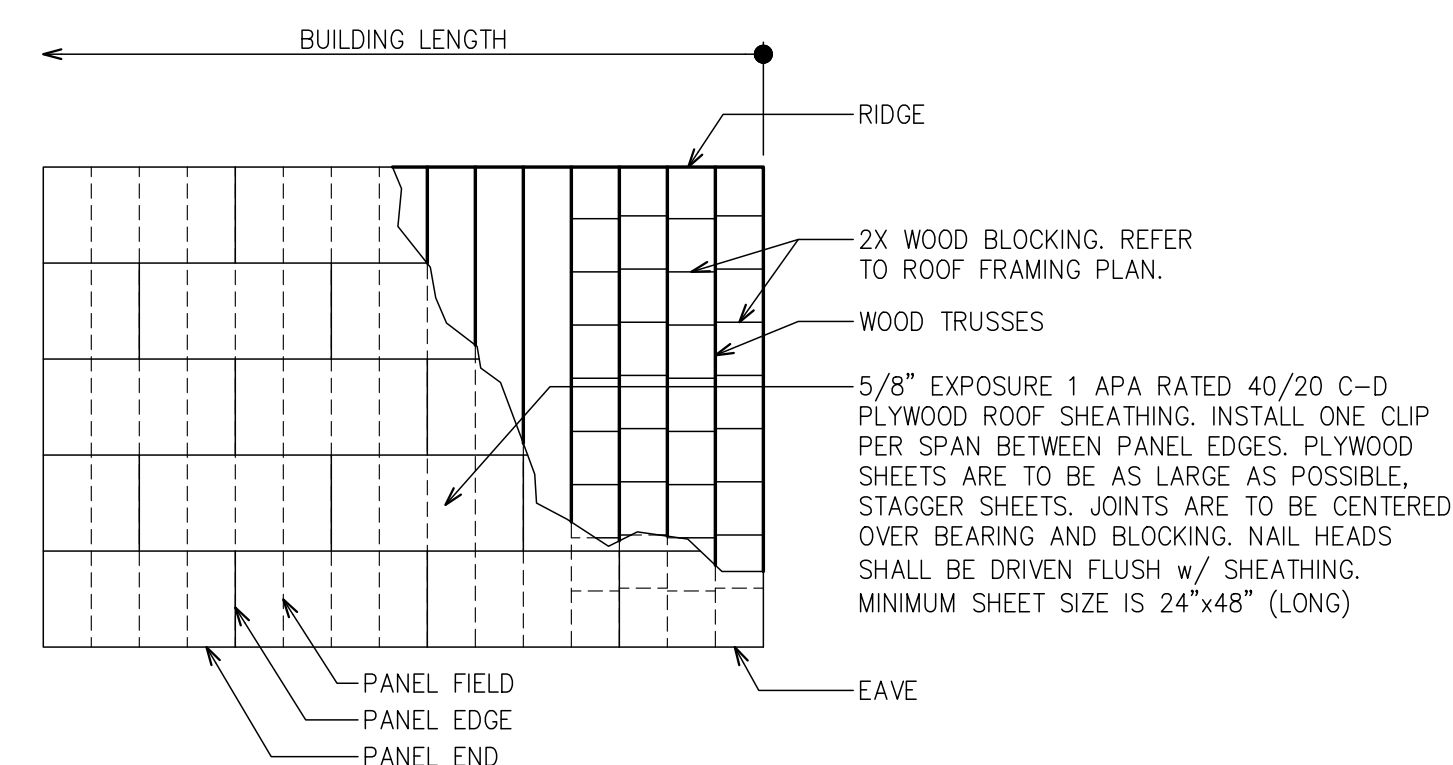
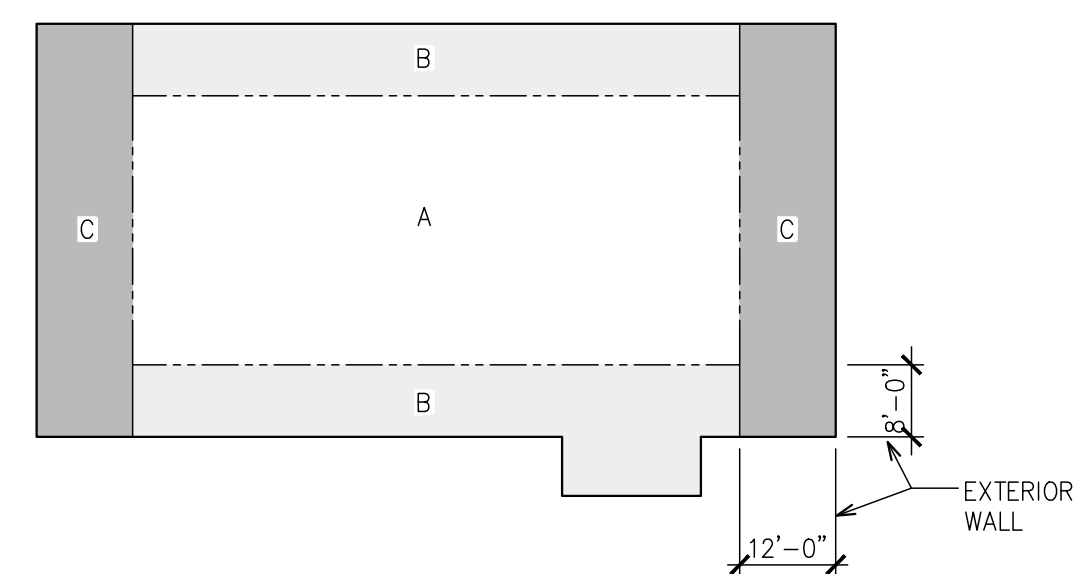
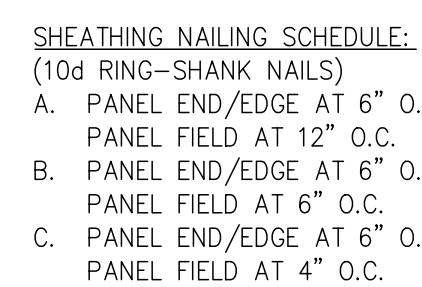
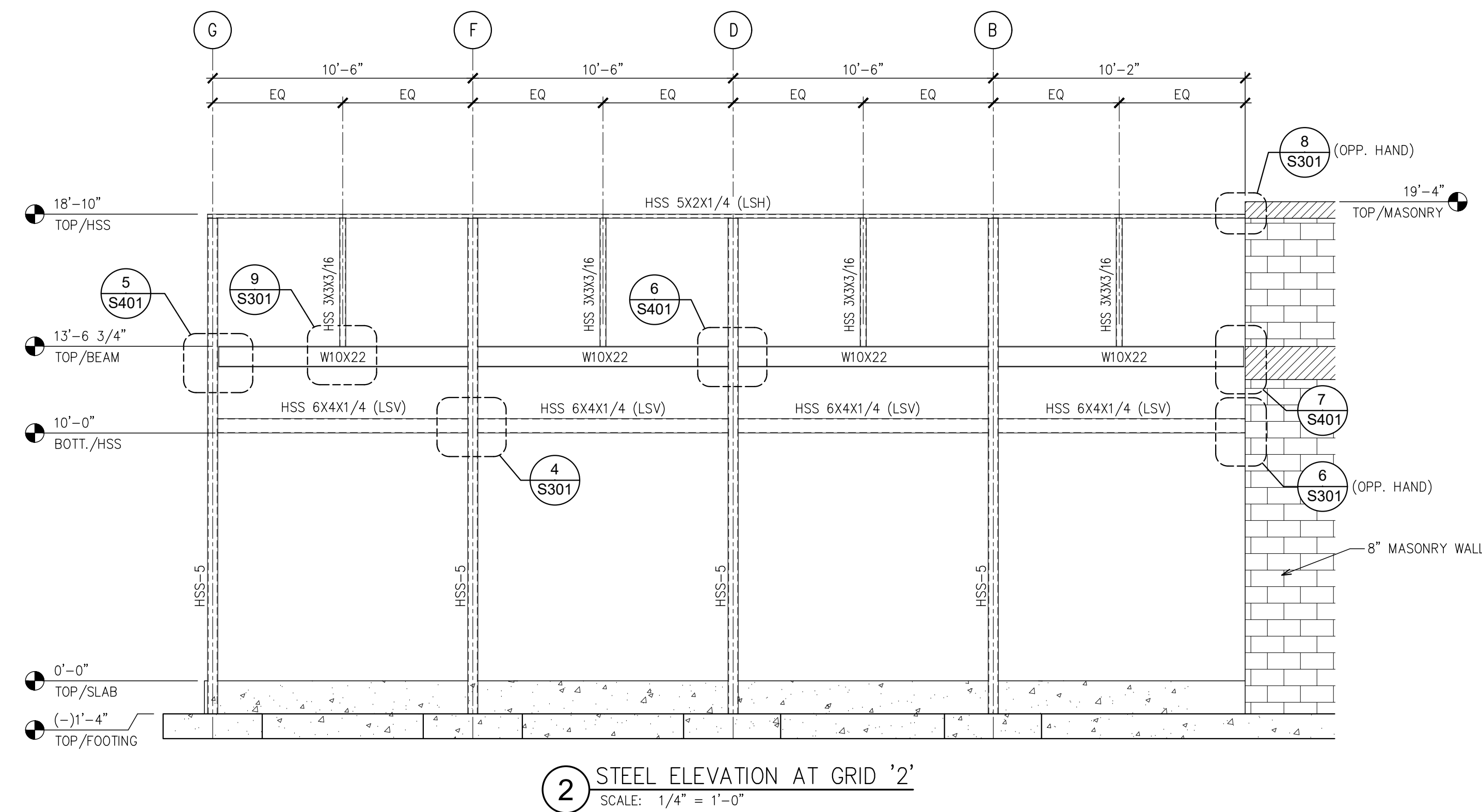
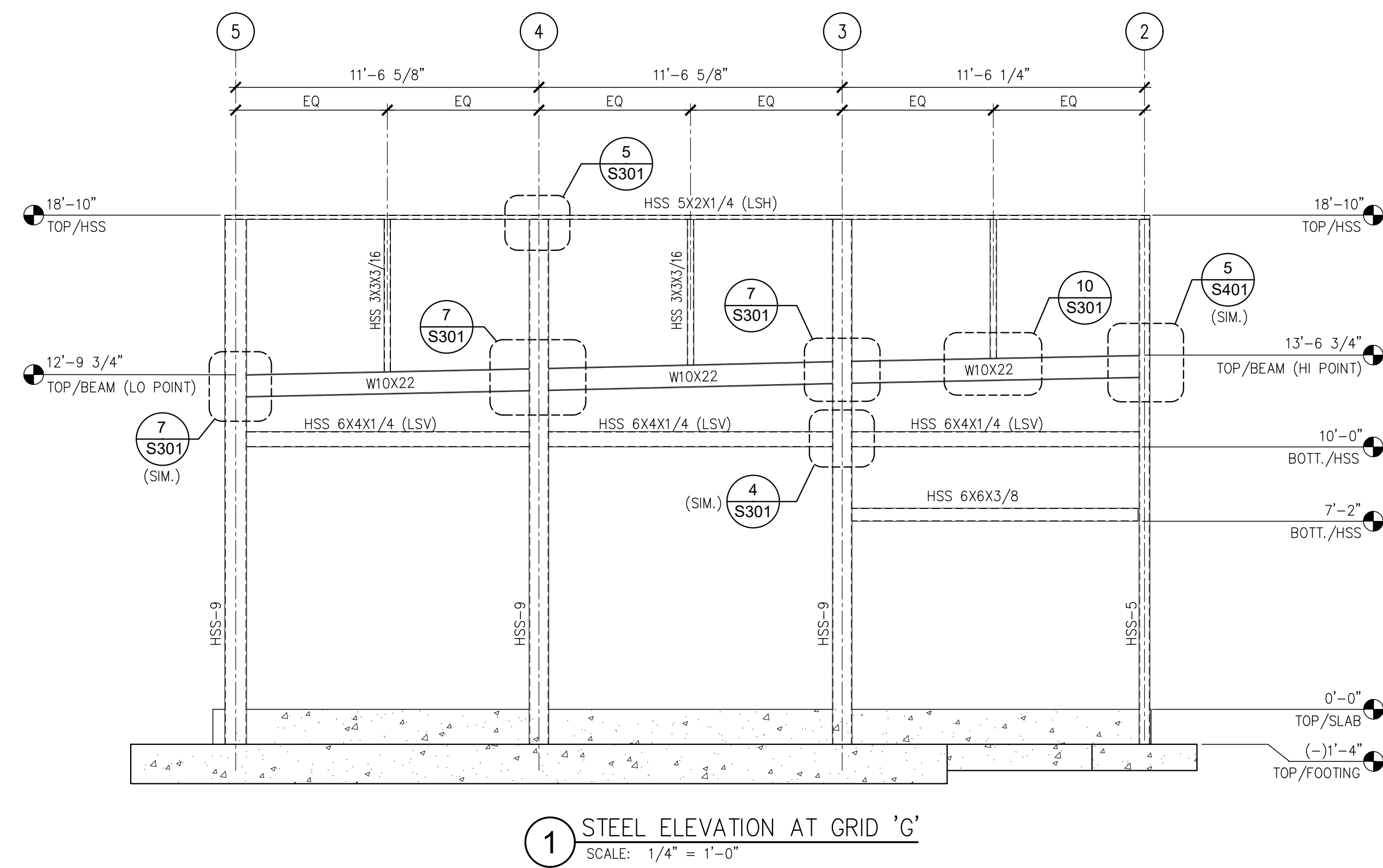
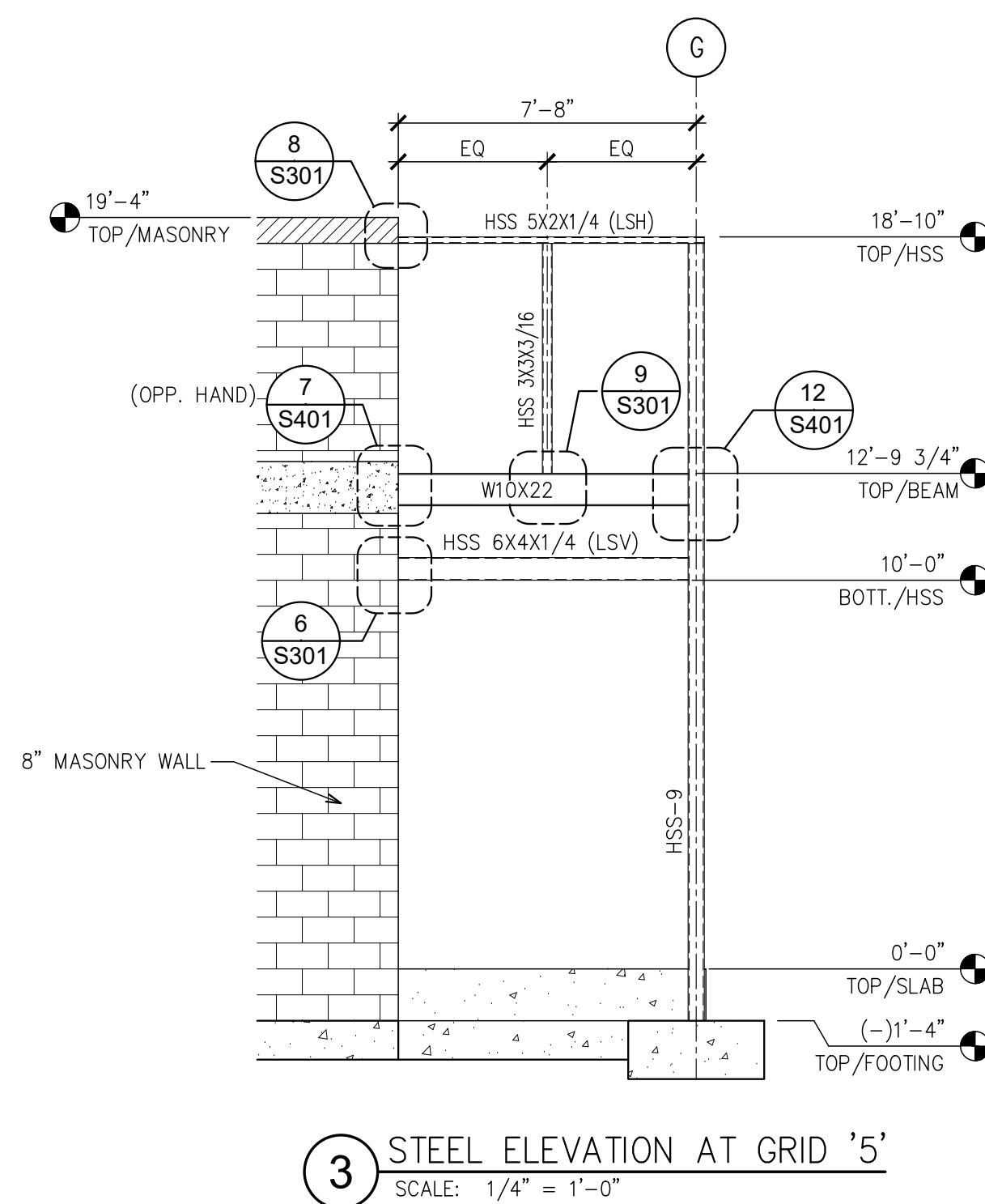
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**CHIPOTLE MEXICAN GRILL
BUILDING SHELL**
1491 EMERSON DR. NE,
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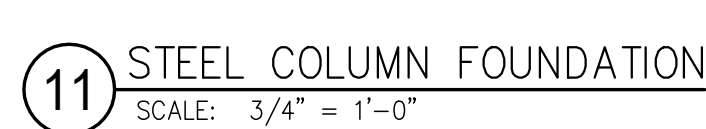
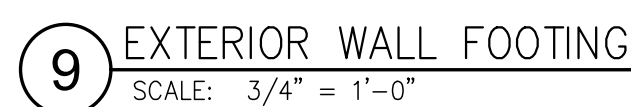
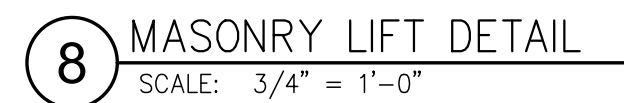
WALL SECTIONS

S300

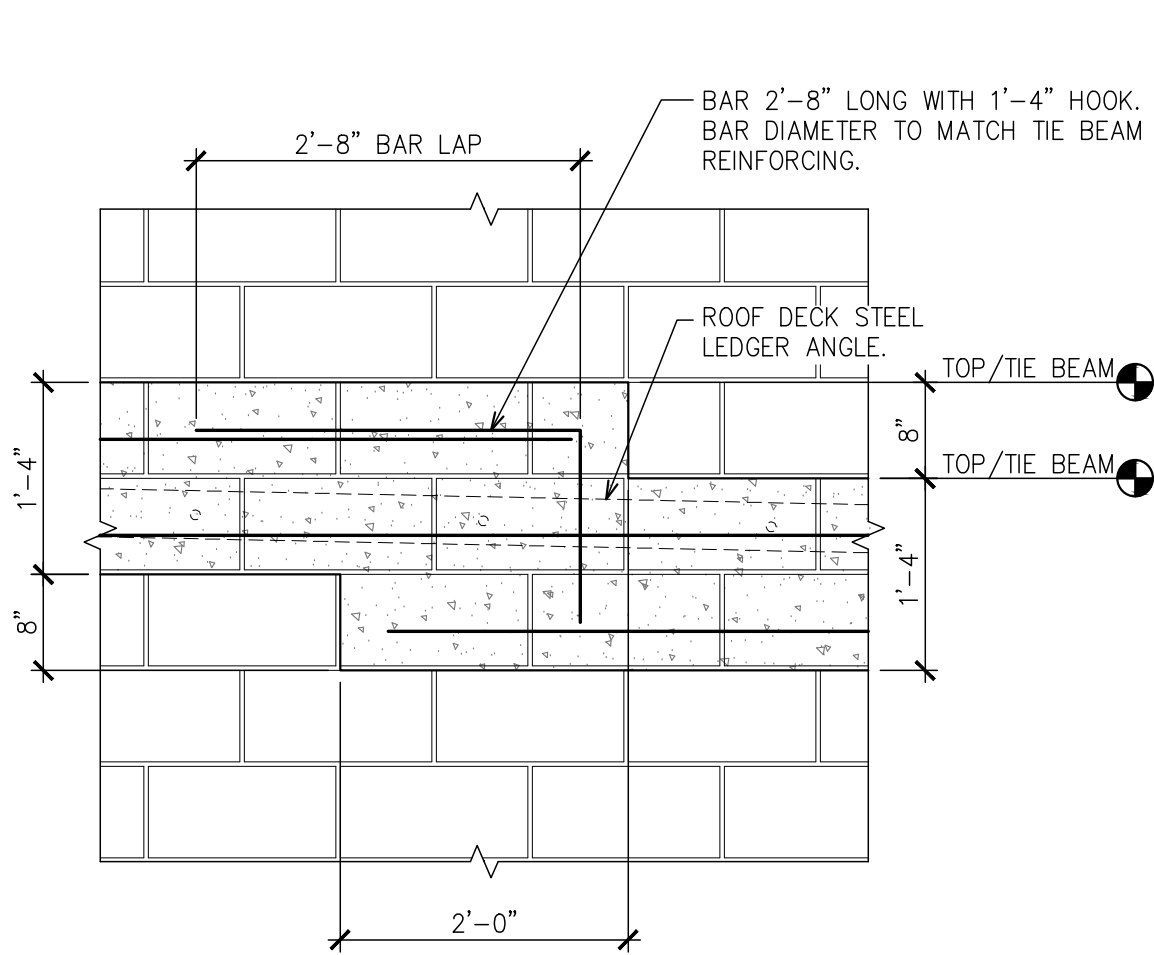




2 CORNER BAR DETAIL
NOT TO SCALE

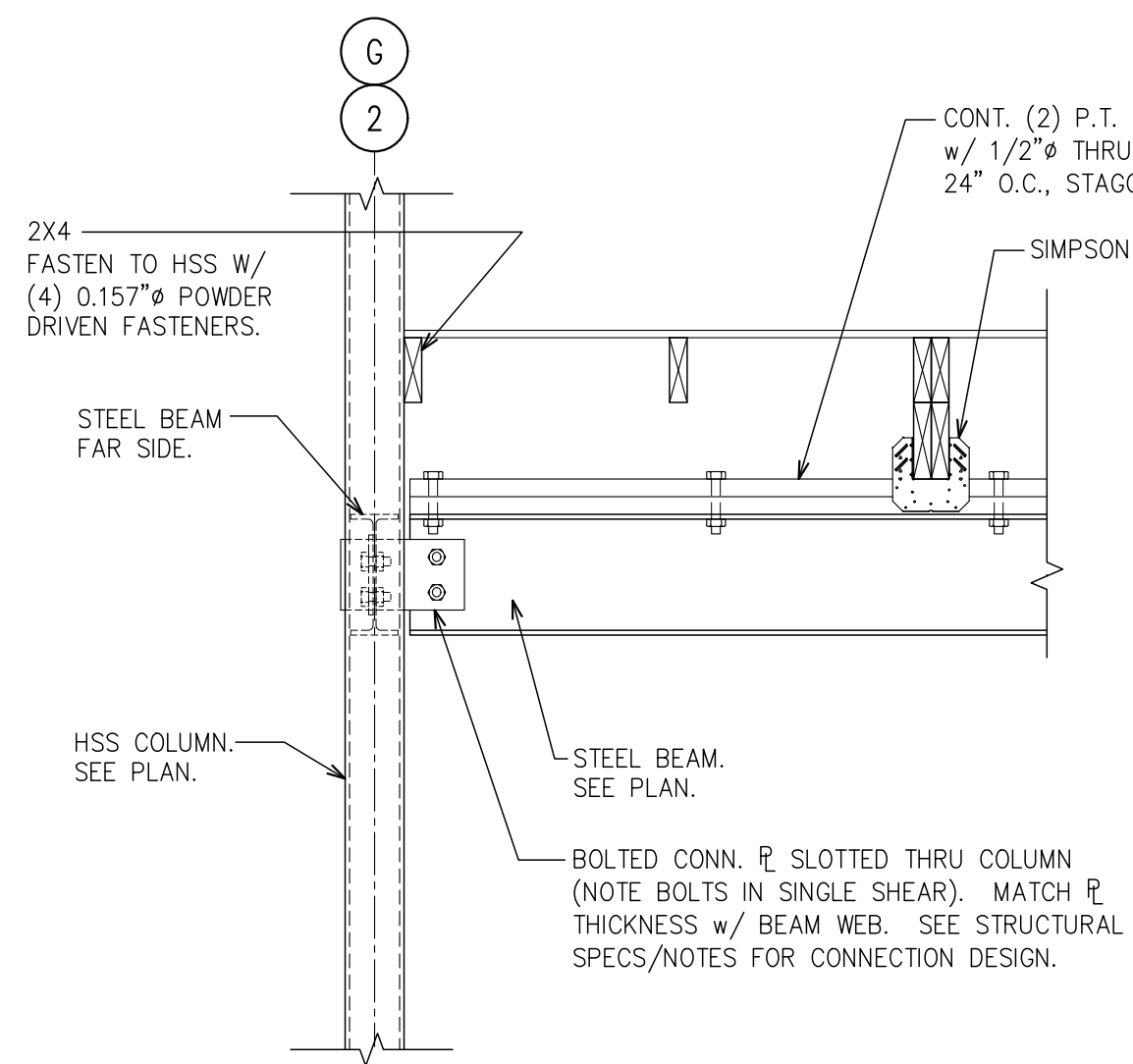


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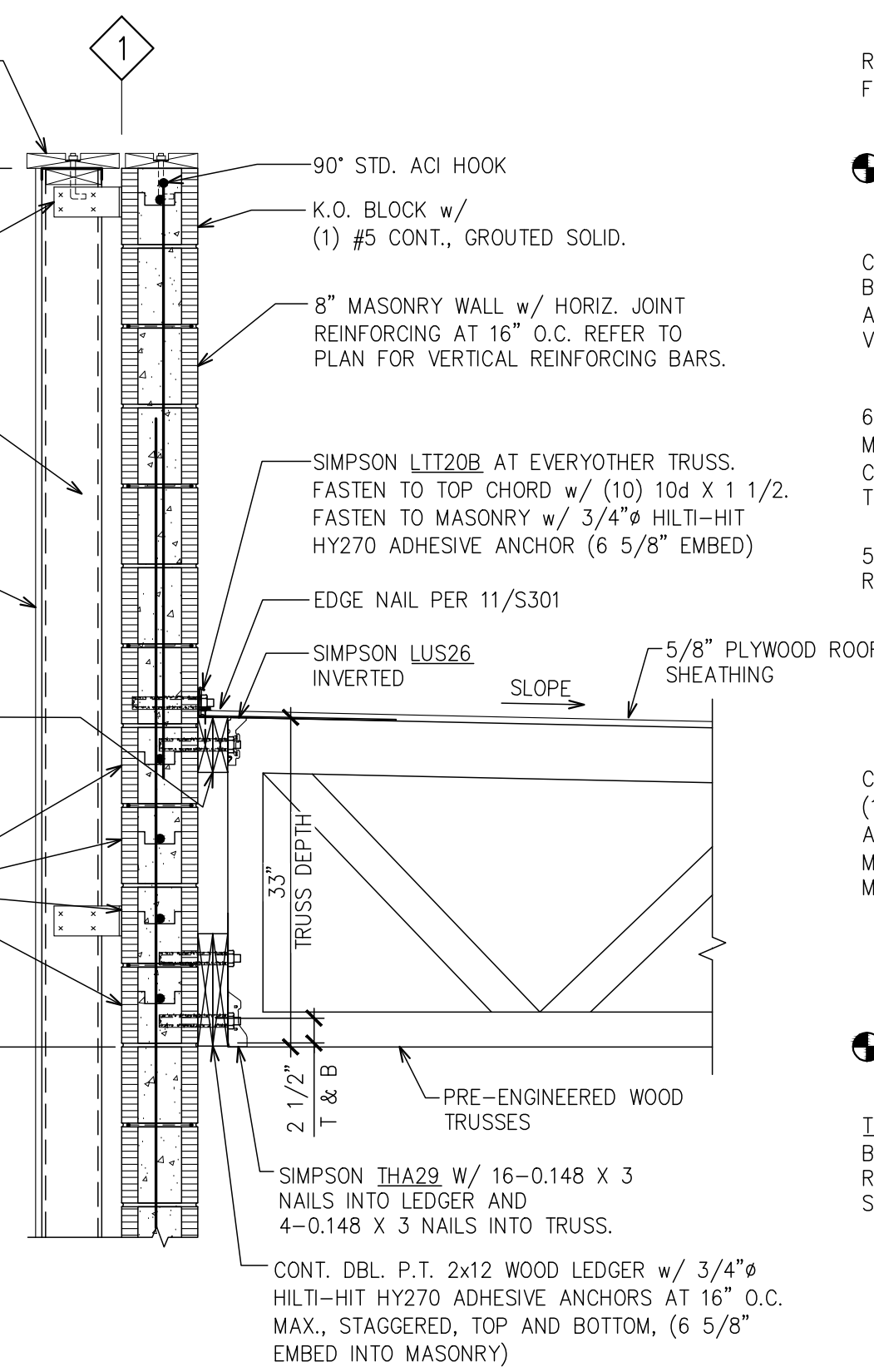


NOTES:
1. MASONRY TIE BEAM SHALL BE TB-1. REFER TO TIE BEAM SCHEDULE ON SHEET S200.
2. STEP TIE BEAM A MAXIMUM OF 8". LOCATE TIE BEAM STEPS AS REQUIRED WITH SLOPED DECK LEDGER ANGLE.

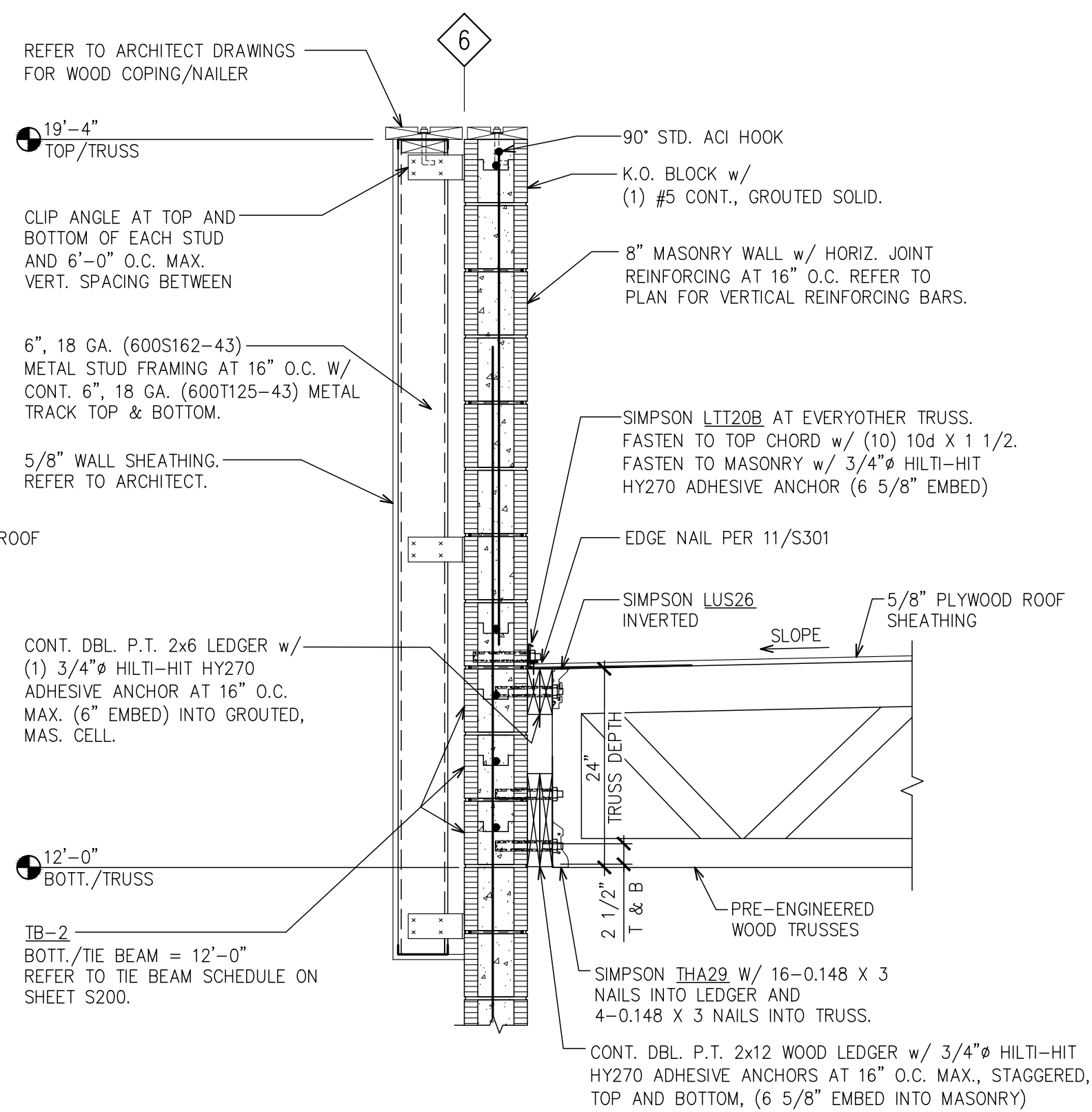
1 MASONRY TIE BEAM - STEP
SCALE: 3/4" = 1'-0"



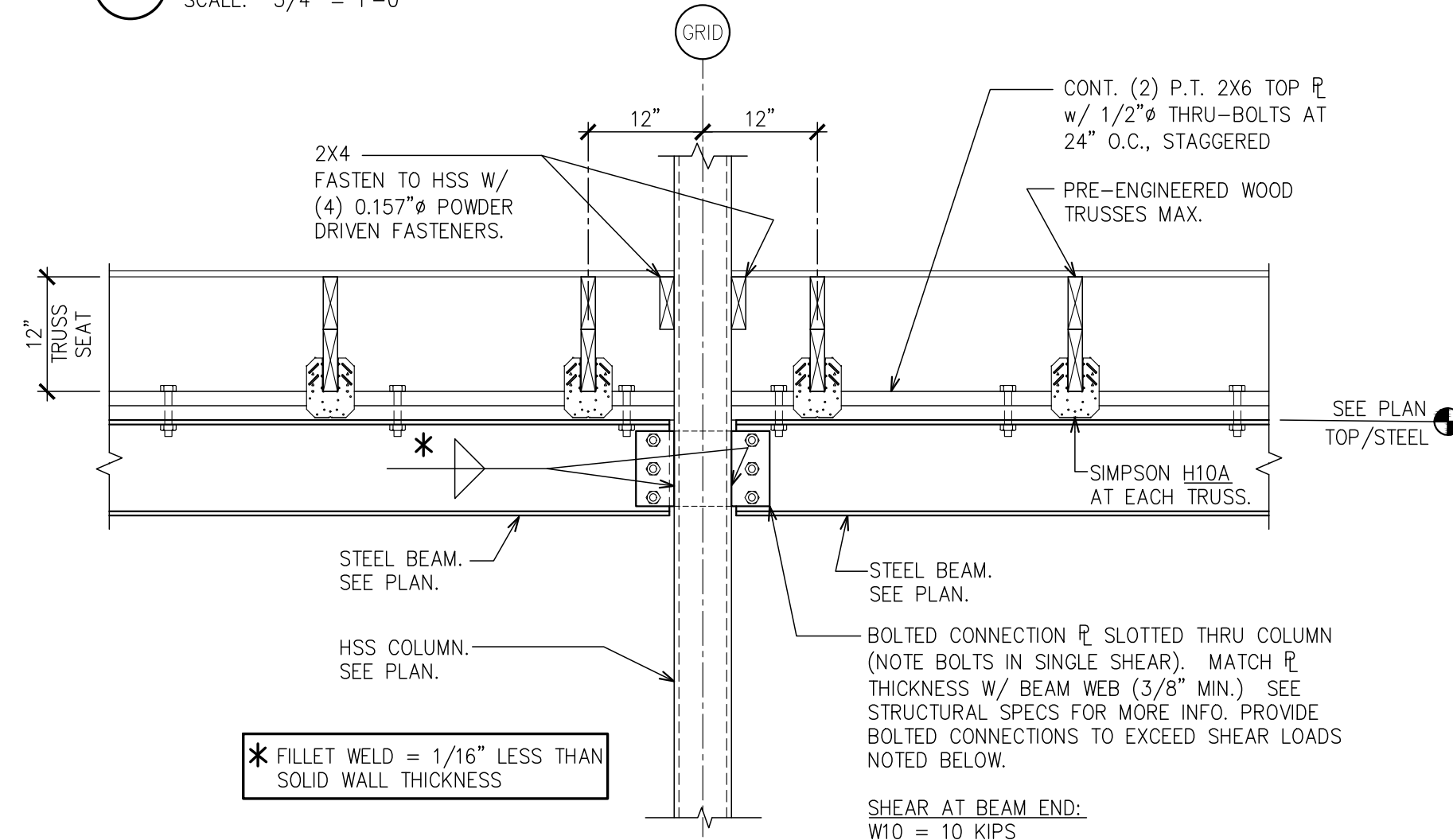
5 BEAM CONNECTION
SCALE: 3/4" = 1'-0"



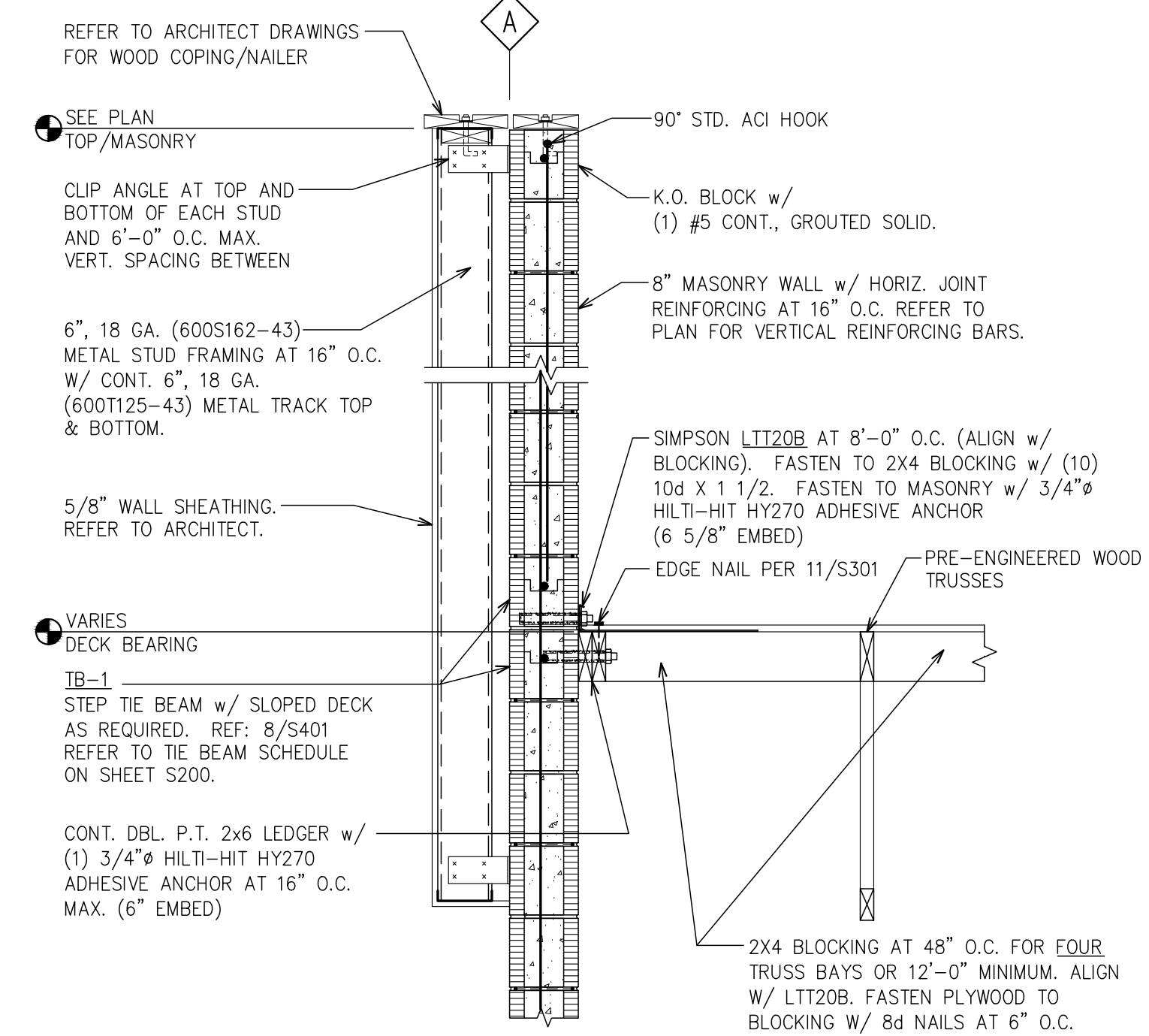
2 TRUSS BEARING
SCALE: 3/4" = 1'-0"



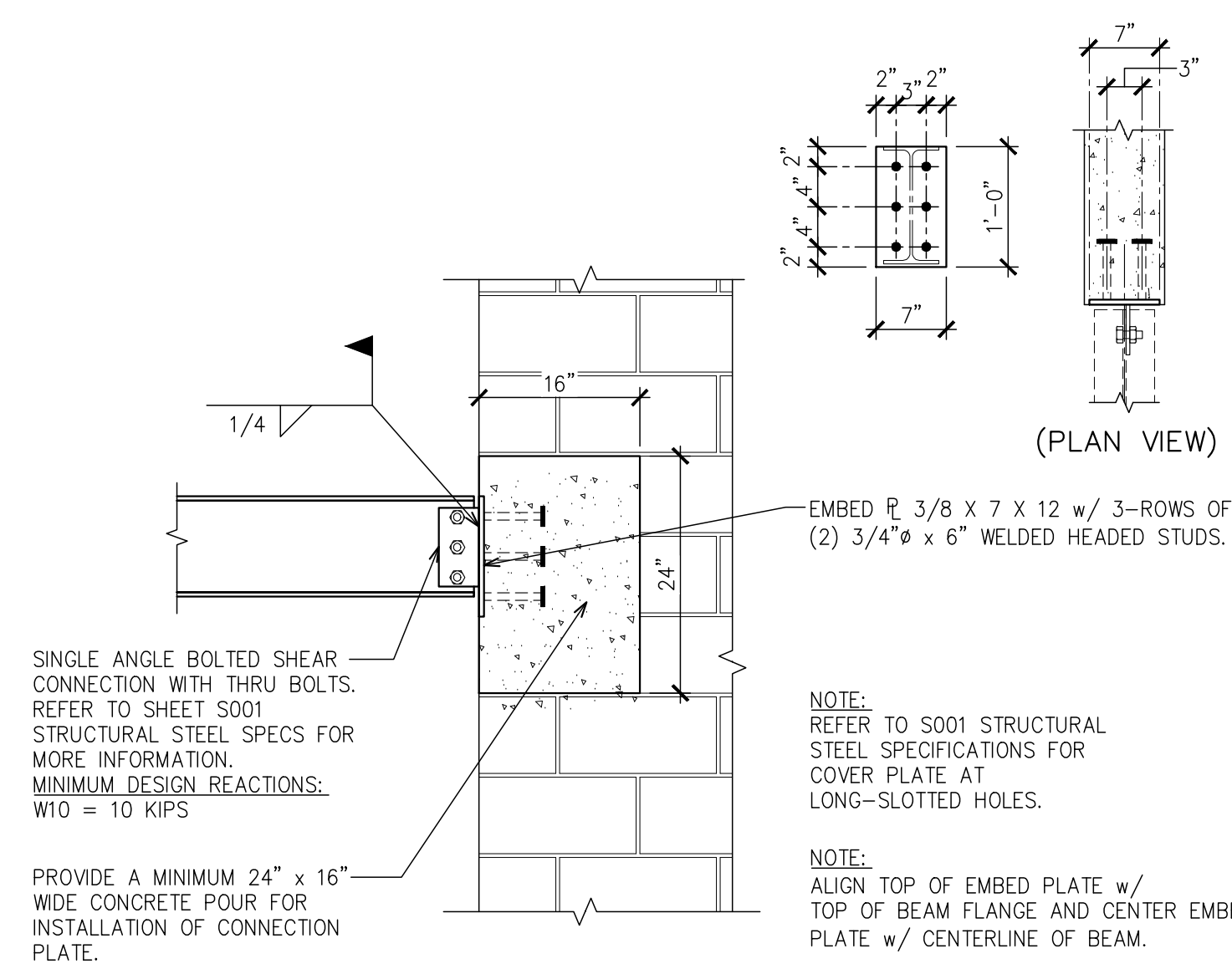
3 TRUSS BEARING
SCALE: 3/4" = 1'-0"



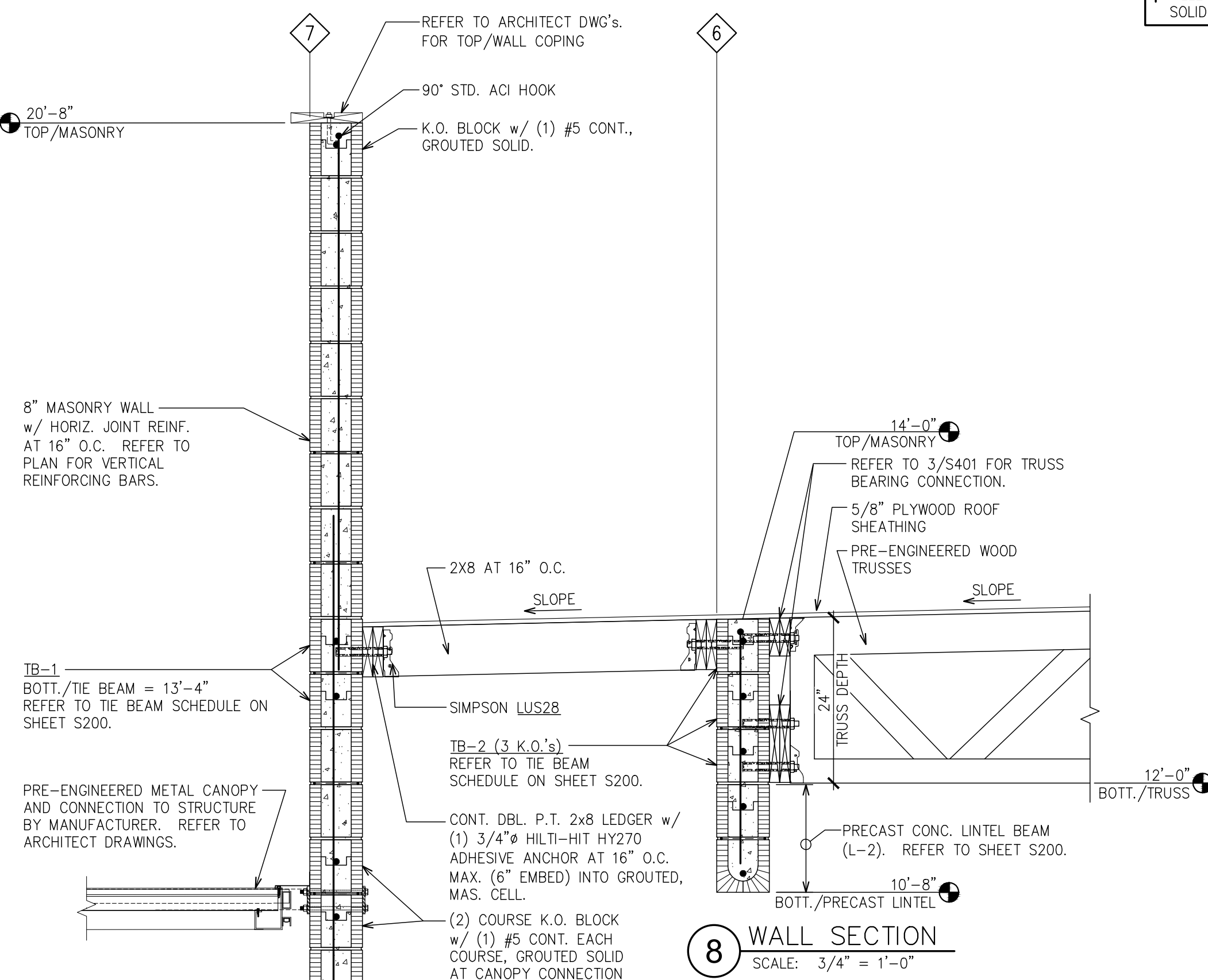
6 BEAM-COLUMN CONNECTION
SCALE: 3/4" = 1'-0"



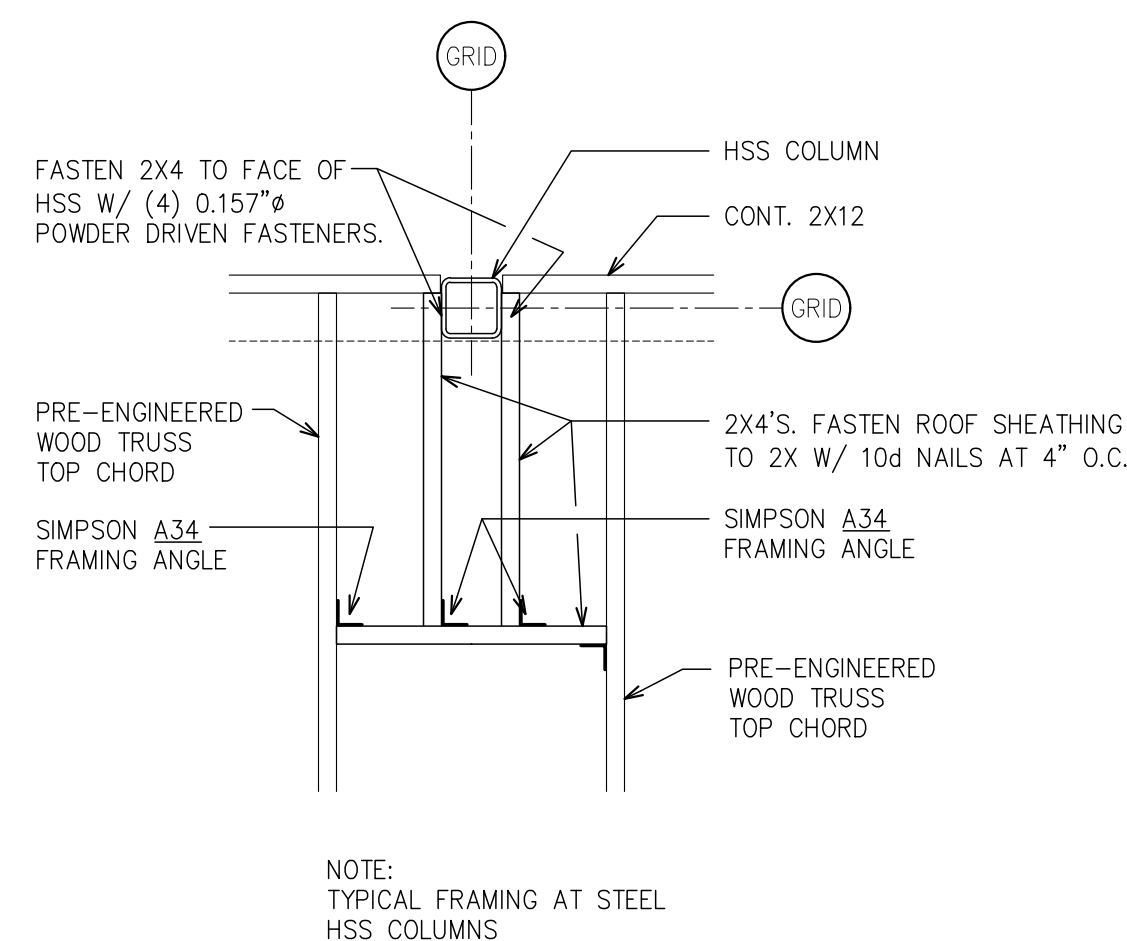
4 DECK BEARING
SCALE: 3/4" = 1'-0"



7 BEAM CONNECTION TO CONCRETE
SCALE: 3/4" = 1'-0"



8 WALL SECTION
SCALE: 3/4" = 1'-0"



9 DETAIL (PLAN VIEW)
SCALE: 3/4" = 1'-0"

ALL PLUMBING WORK SHALL MEET ALL THE REQUIREMENTS OF THE "FLORIDA BUILDING CODE, PLUMBING - 8TH EDITION".

REVIEW PLANS OF ALL TRADES PRIOR TO BIDDING AND INSTALLATION TO INCLUDE ALL PLUMBING FOR COMPLETE SYSTEMS SHOWN ON THE PLANS AND AS REQUIRED.

COORDINATE WITH OTHER TRADES TO PREVENT INTERFERENCE WITH HVAC DUCTS, STRUCTURE, ELECTRICAL LIGHTING, AND OTHER PIPING IN THE CEILING SPACE. VENT PIPING AND WATER PIPING SHALL BE HELD EITHER ABOVE OR BELOW HVAC DUCTWORK AS COORDINATED WITH THE HVAC CONTRACTOR.

ALL CHANGES SHALL BE APPROVED BY THE ARCHITECT.

COORDINATE WITH ARCHITECTURAL DRAWINGS BEFORE ROUGHING-IN PLUMBING FIXTURES AND EQUIPMENT SUPPLIES.

THE PLUMBING SUBCONTRACTOR SHALL FURNISH AND INSTALL ALL PLUMBING FIXTURES, UNLESS NOTED OTHERWISE.

THE PLUMBING SUBCONTRACTOR SHALL INSTALL AND MAKE ALL PLUMBING CONNECTIONS TO OWNER FURNISHED EQUIPMENT.

VERIFY MOUNTING HEIGHT AND WATER CONNECTION SIZES TO ALL PLUMBING FIXTURES PRIOR TO ROUGH-IN. FURNISH CUT-OUT TEMPLATES, FOR PLUMBING FIXTURES TO BE INSTALLED IN MILLWORK, TO THE GENERAL CONTRACTOR.

MAKE PROPER HOT AND COLD WATER, WASTE AND VENT PIPING CONNECTIONS TO ALL FIXTURES AND EQUIPMENT EVEN THOUGH ALL FITTINGS AND CONNECTIONS ARE NOT SHOWN.

VERIFY LOCATION OF EXISTING WATER SERVICE AND THE LOCATION/INVERTS OF SANITARY PIPING PRIOR TO INSTALLATION.

THIS CONTRACTOR TO DO ALL CUTTING AND PATCHING REQUIRED TO INSTALL ANY PORTION OF THIS WORK. PATCH WITH NEW MATERIALS OF THE SAME TYPE THAT WAS REMOVED. REFINISH PATCHED SURFACE TO MATCH EXISTING ADJACENT SURFACES.

ALL PLUMBING VENTS IN EXTERIOR WALLS SHALL BE OFF-SET A MINIMUM OF 3'-0" BEFORE ROOF PENETRATION.

PROVIDE TRAP PRIMERS FOR FLOOR DRAINS, FROM THE NEAREST LAVATORY, AS SHOWN ON THE PLAN AND AS REQUIRED BY LOCAL CODE. PRIMERS SHALL BE LOCATED IN A SERVICABLE LOCATION AND INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.

INSTALL WATER HAMMER ARRESTERS WHERE WATER PRESSURES ARE EXCESSIVE OR WHERE REQUIRED TO ELIMINATE WATER HAMMER OR WHEN DEEMED NECESSARY BY LOCAL AUTHORITIES. LOCATE AND SIZE AS RECOMMENDED BY THE AMERICAN SOCIETY OF PLUMBING ENGINEERS.

ALL WORK ASSOCIATED WITH THESE PLANS SHALL NOT PASS THRU OR ABOVE ANY ROOM DESIGNATED AS AN ELECTRICAL ROOM.

IT IS IN THE INTENT OF THESE DRAWINGS TO COVER ALL WORK AND MATERIAL FOR A FIRST CLASS INSTALLATION. ANY EQUIPMENT, PLUMBING FIXTURE, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THESE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS PART OF HIS TOTAL WORK.

ALL WORK, BOTH MATERIAL AND INSTALLATION, SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF ACCEPTANCE BY THE OWNER.

PRIOR TO CONNECTION TO ANY EXISTING SANITARY LINES, CONTRACTOR SHALL SCOPE THE LINES TO VERIFY THEY ARE CONNECTED TO THE MUNICIPAL SYSTEM. PROVIDE EVIDENCE TO THE LANDLORD OF THIS WORK PRIOR TO MAKING ANY FINAL CONNECTIONS.












PROVIDE FIRE RATED PENETRATION DETAILS FOR REVIEW AND APPROVAL PRIOR TO THE START OF WORK. ALL CORRIDOR, TENANT DEMISING WALLS AND LOAD BEARING WALLS ARE FIRE OR SMOKE RATED.

DOMESTIC HOT AND COLD WATER PIPING TYPE "L" COPPER WITH LEAD FREE SOLDER ABOVE GROUND.

SANITARY WASTE AND VENT PIPING SHALL BE SCHEDULE 40 PVC PIPE WITH SOLVENT FITTINGS, CONFORMING TO ASTM STANDARDS.

INSULATION SHALL BE FLEXIBLE UNCELLULAR-SELF-SEAL ARMAFLEX AP, PROVIDE 1" THICK INSULATION FOR HOT WATER PIPING UP TO 1½", 1½" THICK FOR PIPING 1½" AND LARGER - PROVIDE SHEET METAL SADDLES AT EACH HANGER.

GAS PIPING TO BE SCH. 40 BLACK STEEL WITH THREADED CONNECTIONS AND THREADED FITTINGS, PROVIDE PIPE HANGERS AT ALL FITTINGS, AT EACH DROP AND 10 FEET OF STRAIGHT PIPE RUN, REFER TO SPECIFICATIONS. (PRIMED AND PAINTED YELLOW, 2 COATS.)

PLUMBING LEGEND		
DESCRIPTION	ABBREV.	SYMBOL
SANITARY PIPING	SAN	
GREASE WASTE PIPING	GW	
VENT PIPING	V	
COLD WATER PIPING	CW	
HOT WATER PIPING	HW	
STORM WATER PIPING	ST	
GAS PIPING	G	
GATE VALVE	GV	
CLEAN OUT	CO	
FLOOR CLEAN OUT	FCO	
TYPICAL	(TYP)	
NEW CONNECTION TO EXISTING		
HOSE BIBB	HB	
VENT THRU ROOF	VTR	

FCO: FLOOR CLEANOUT — ZURN NO. Z-1444, POLISHED BRONZE ACCESS COVER, DURA—COATED CAST IRON BODY. MATCH TO PIPE SIZE.

RD: ROOF DRAIN — ZURN Z-RD2130 COMBINATION ROOF DRAIN W/ OVERFLOW. 18"x10" DECK FLANGE. CONSTRUCTED OF A DURA—COATED CAST IRON BODY. STANDARD TO THE ROOF DRAIN IS A CAST IRON CLAMP DEVICE WITH AN INTEGRAL GRAVEL GUARD, ROOF SUMP RECEIVER, AND CAST IRON DOME STRAINER. SIZE TO PIPE SIZE.

WH: WALL HYDRANT — WOODFORD MODEL B65, AUTOMATIC DRAINING, FREEZELESS WALL HYDRANT WITH ANTI—SIPHON VACUUM BREAKER. INCLUDING OPERATING KEY. 3/4" CW. WITH BOX AND COVER.

DNZ: DOWNSPOUT NOZZLE — ZURN MODEL Z199—SS OR EQUIVALENT WITH REMOVABLE STAINLESS SCREEN. SIZE TO PIPE SIZE.

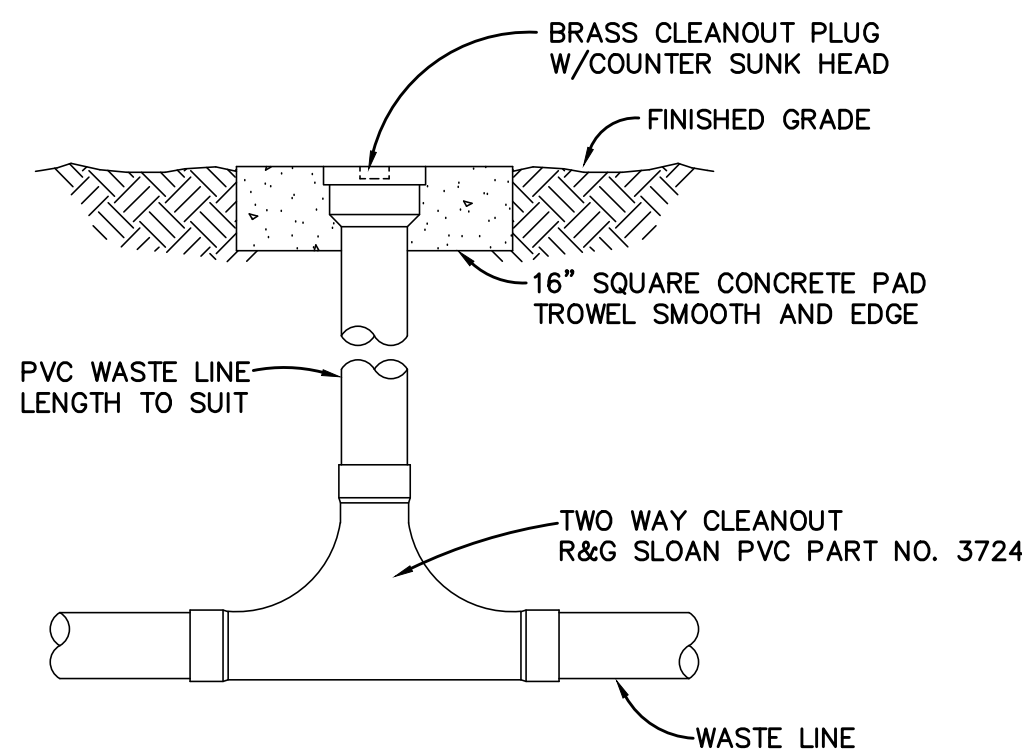
COTG: GRADE CLEANOUT — ZURN NO. C02410—PV, PVC CLEANOUT BODY AND PLUG, TOP TO BE FLUSH WITH GRADE. INSTALL WITH TRAFFIC DUTY COVER, PROVIDE AS REQUIRED. SIZE TO PIPE SIZE.

** PROVIDE SEPARATE LINE ITEM PRICE.

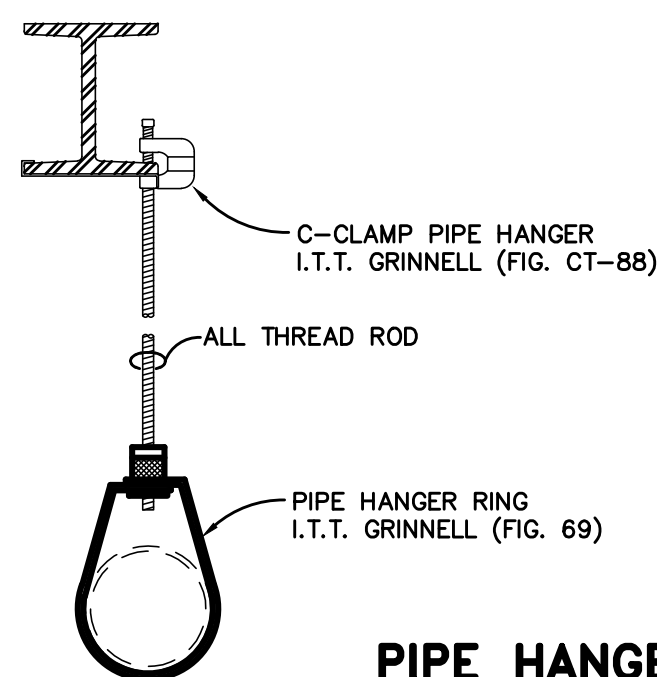
** BOOSTER PUMP TO BE INCLUDED IF 45 GPM. AT 60 PSI HAS NOT BEEN ACHIEVED AFTER ALL PLUMBING COMPONENTS HAVE BEEN INSTALLED. VERIFY PRESSURE PRIOR TO INSTALLATION.

** GC TO PERFORM A PRESSURE TEST AFTER ALL CONNECTIONS AND BACKFLOW PREVENTORS, VALVES, ETC, HAVE BEEN INSTALLED. ONLY REQUIRED IF SITE PRESSURE CANNOT MEET TENANT MINIMUM PRESSURE IN LEASE.

BP: BOOSTER PUMP — PERFECT PRESSURE PUMP MODEL #P3-2HP, PACKAGED DOMESTIC BOOSTER SYSTEM, SYSTEM TO INCLUDE 2-HR MOTOR AT 208V, SINGLE PHASE, PROVIDING 60 PSI BOOST, 45 GPM. PROVIDE ALL COMPONENTS NECESSARY FOR COMPLETE INSTALLATION INCLUDING, BUT NOT LIMITED TO: UNIONS, BALL VALVES, DIGITAL PRESSURE/SPEED CONTROLLER, AND PRESSURE REDUCING VALVES. 2" CONNECTIONS.

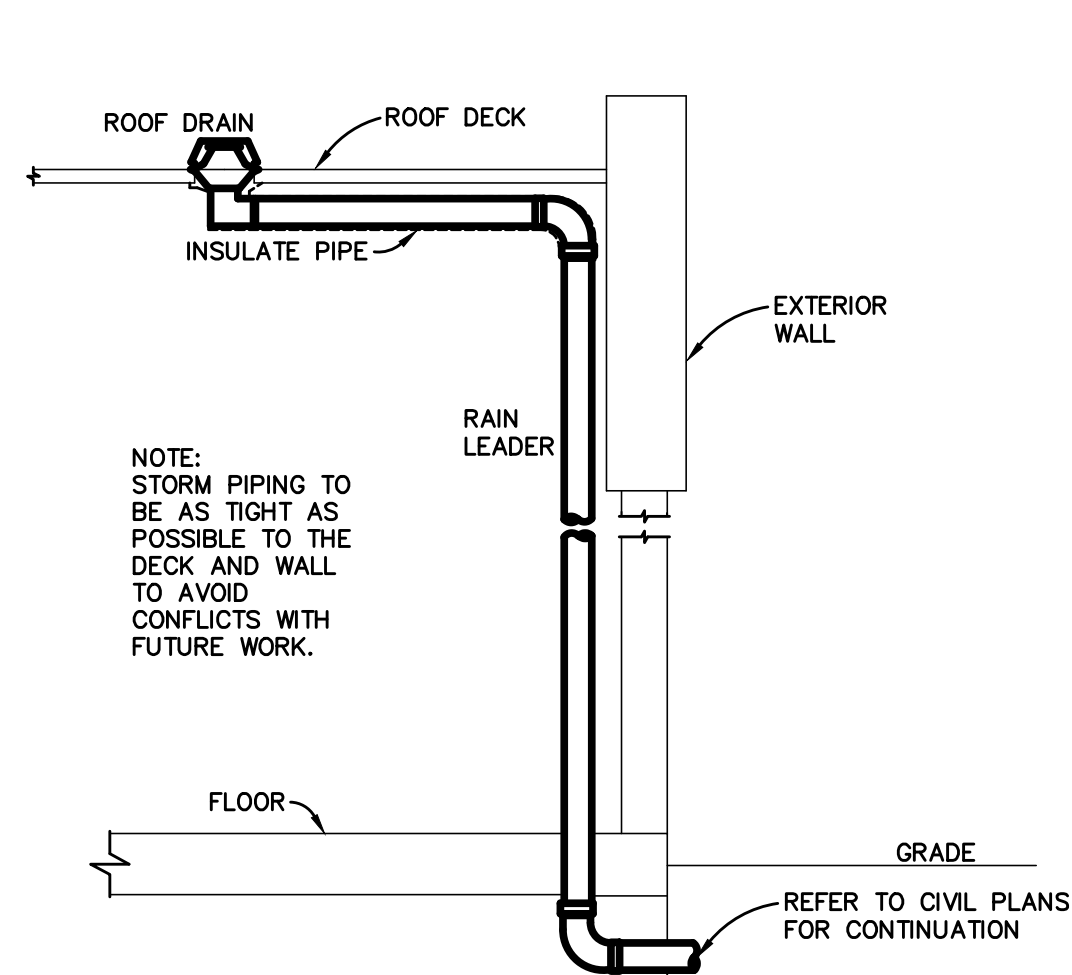


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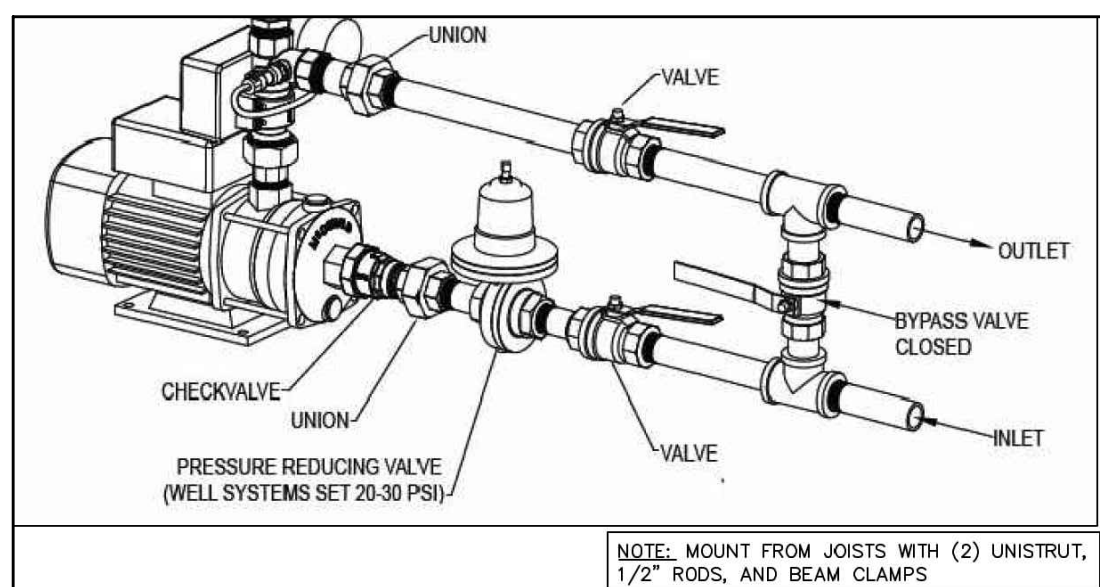


PIPE SIZE (IN)	ROD SIZE (IN)	MAX SPACE (FT)
1/2	1/4	5
3/4	1/4	6
1	1/4	7
1-1/2	3/8	9
2	3/8	10
2-1/2	3/8	11
3	3/8	12
4	1/2	14

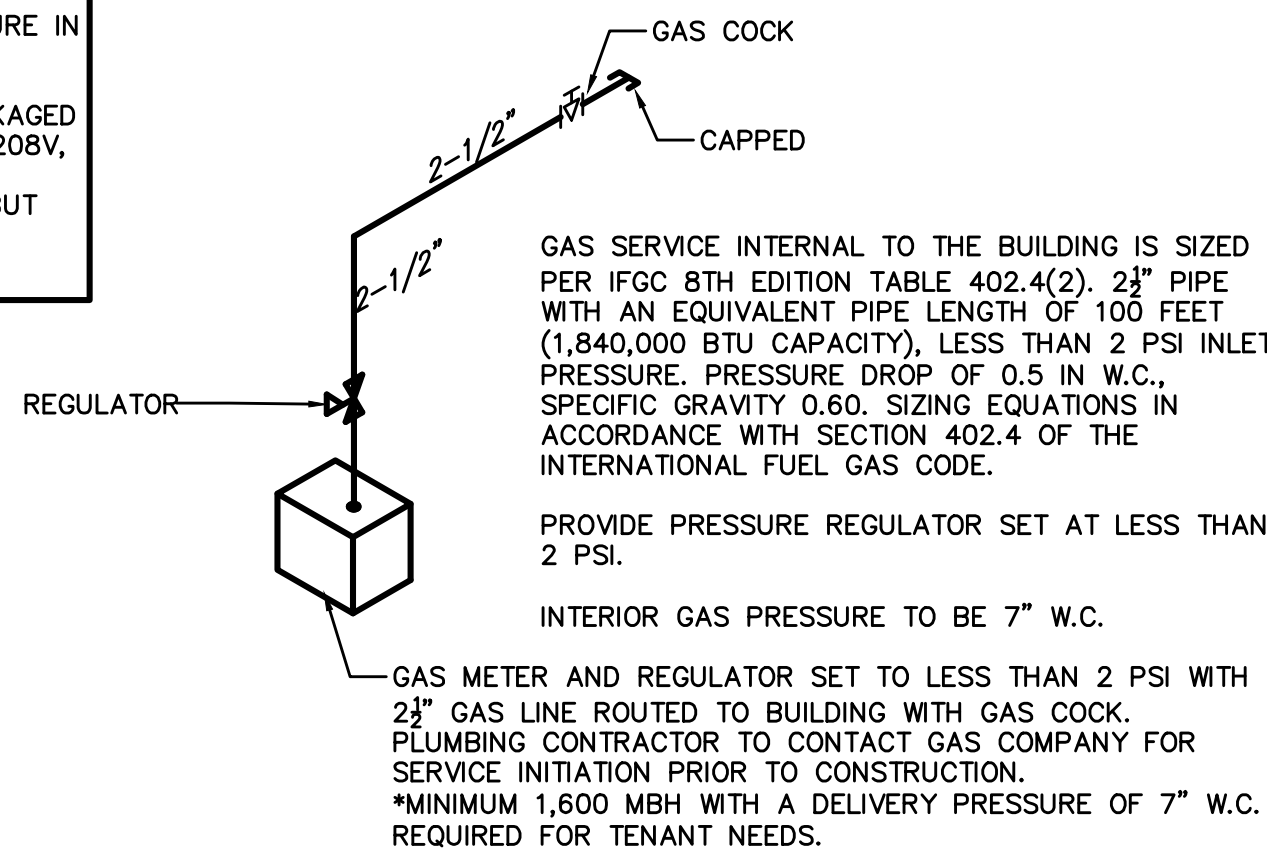
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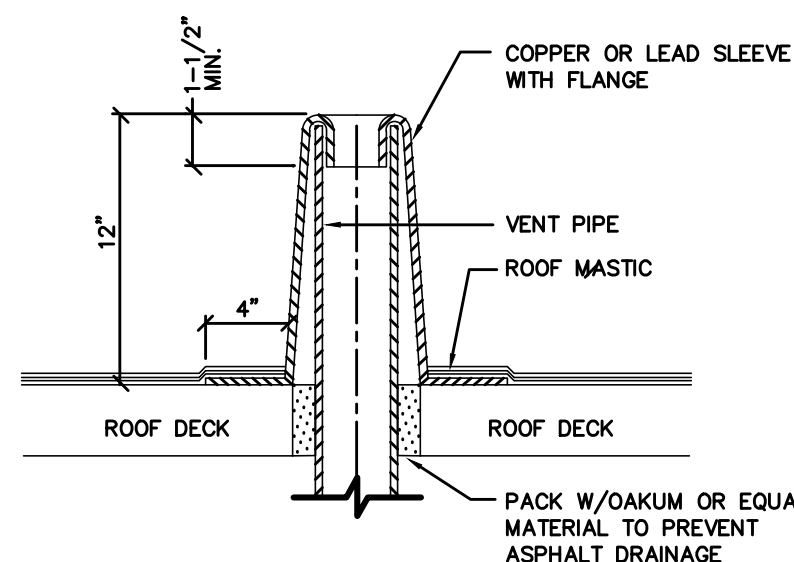
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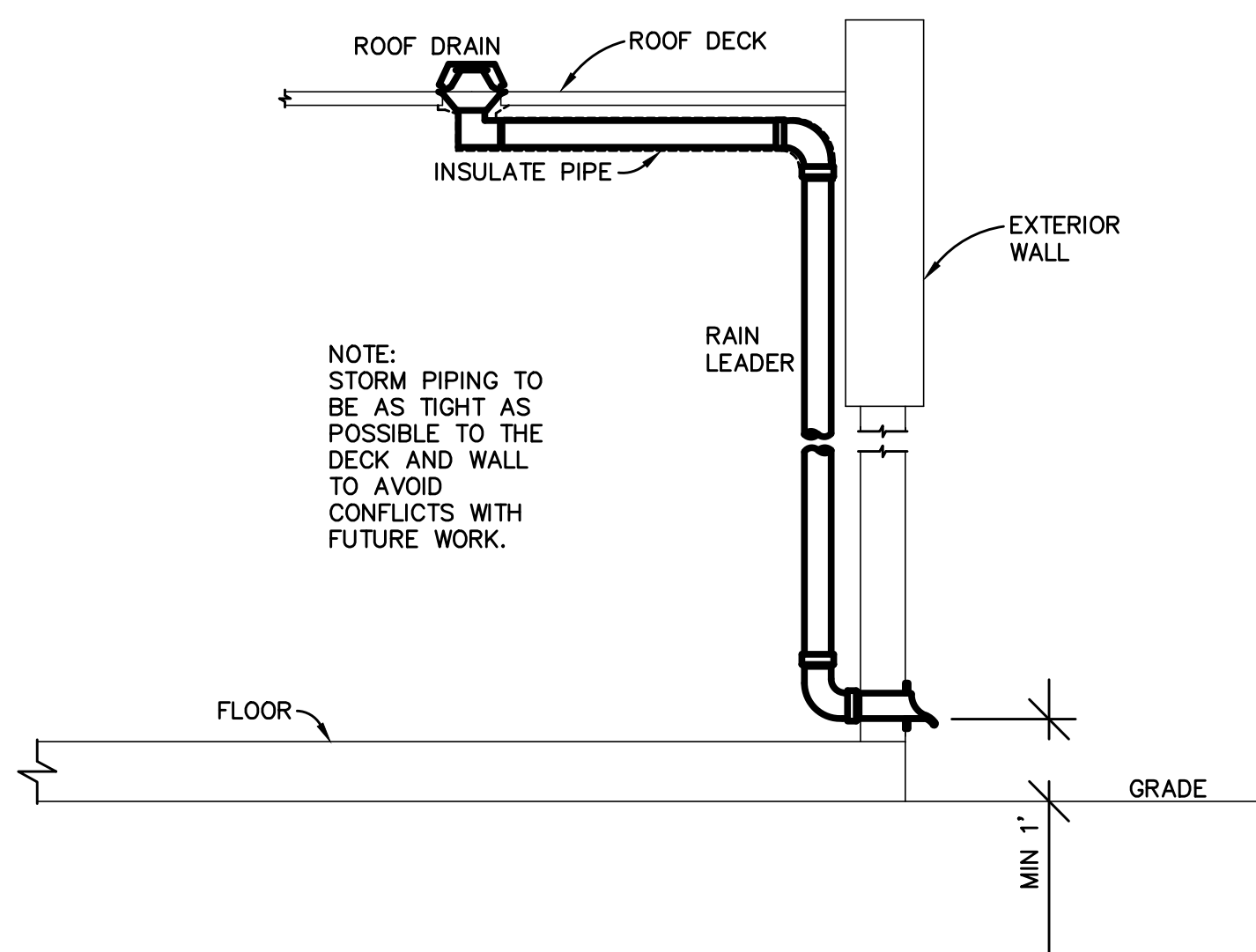
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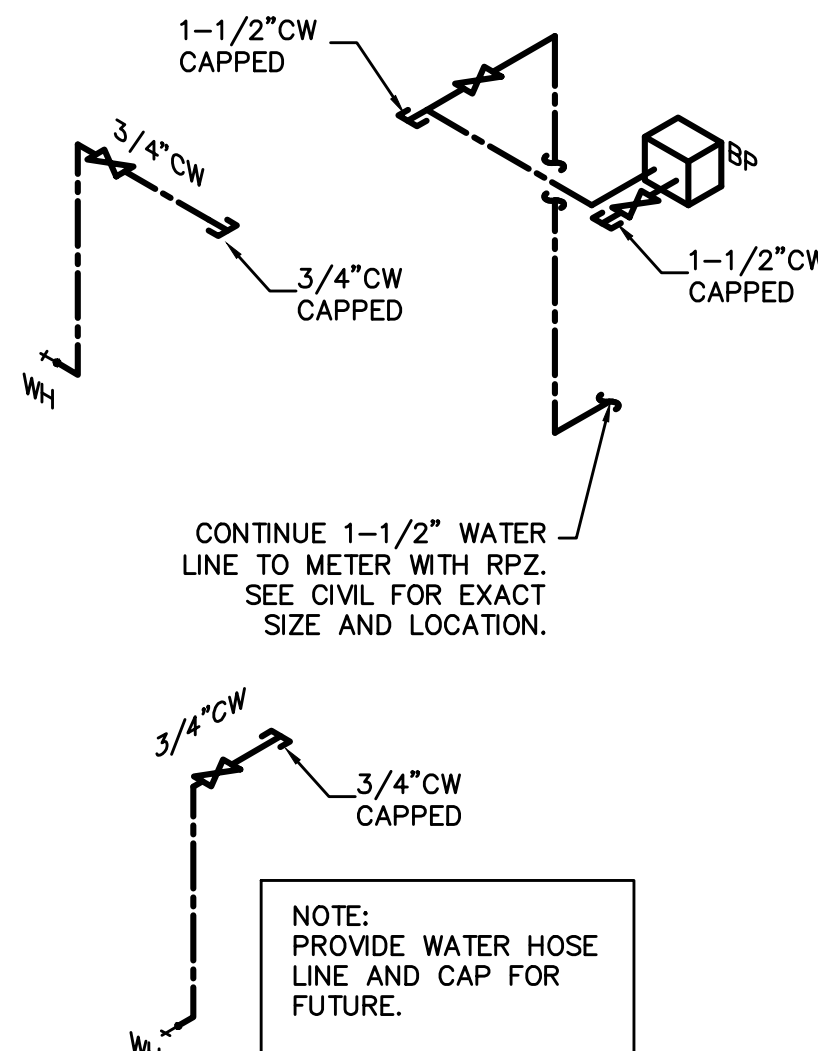
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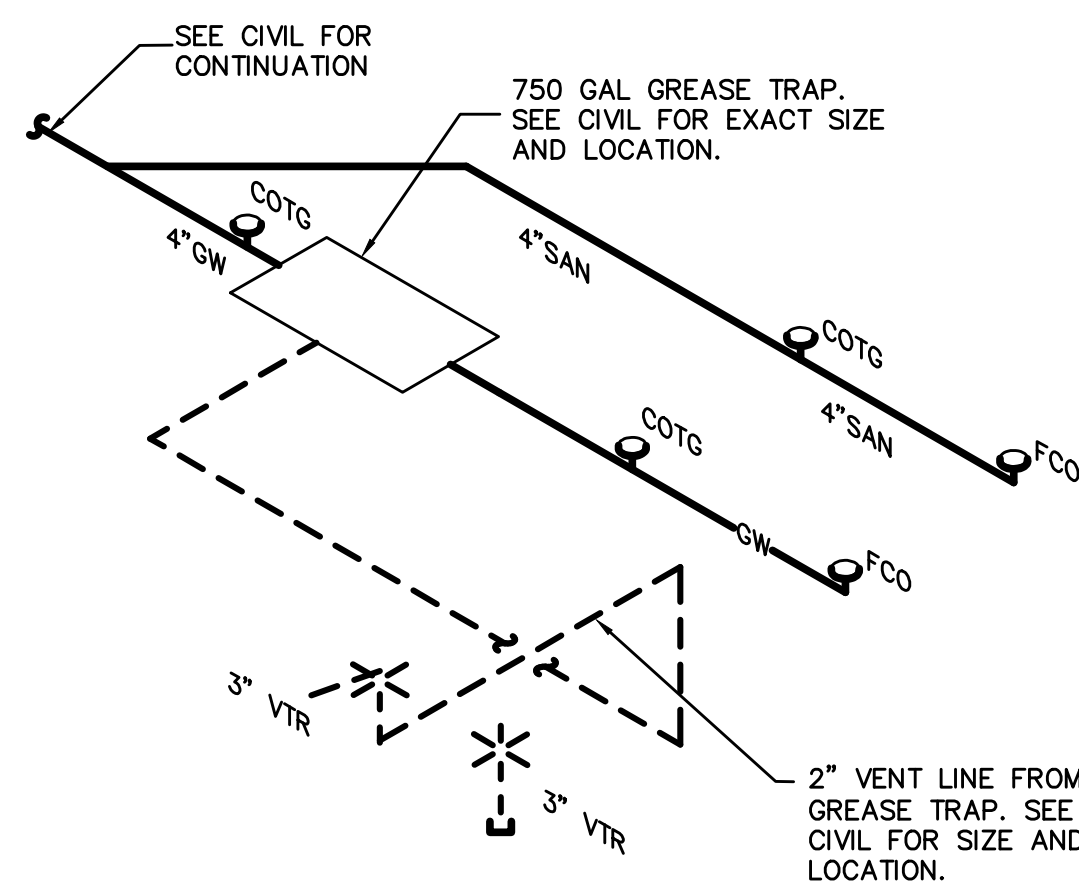
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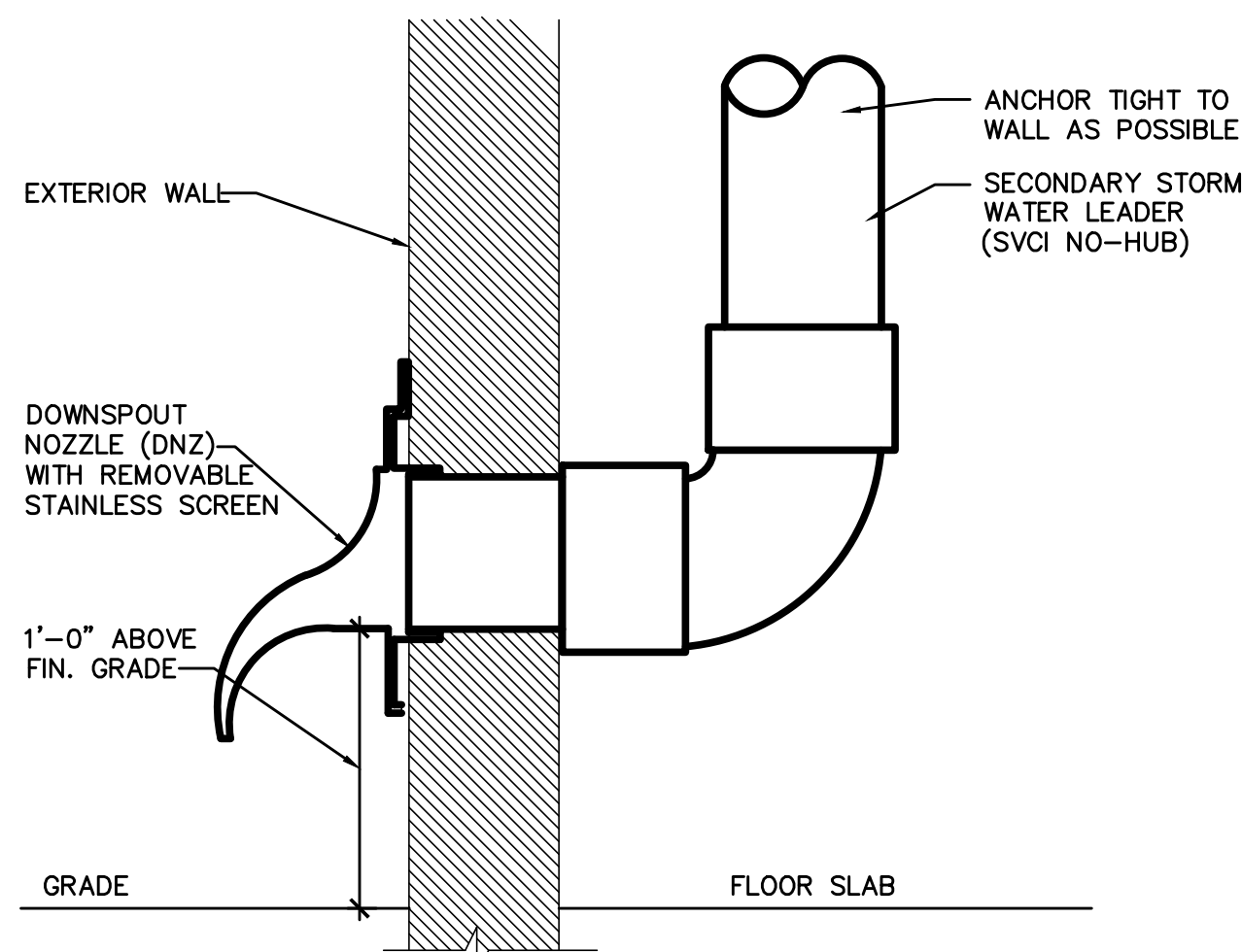


SCALE: NONE



SCALE: NONE

1. DOWNSPOUT NOZZLES TO BE USED IN SECONDARY/OVERFLOW DRAINAGE SYSTEMS ONLY.
2. COORDINATE DOWNSPOUT LOCATIONS WITH SITE PLANS.



NO SCALE



3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-8443

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, SAID PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS.

SHANE R. HAMILTON, PE
FLORIDA LICENSE #75420
seal

[illegible]

CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03 08 24

date

23068

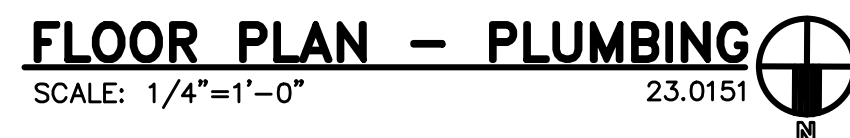
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PLUMBING DETAILS LEGEND, SCHEDULES NOTES AND RISERS

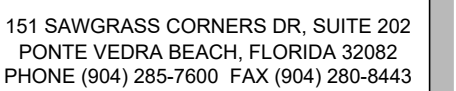
P000

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- 1 CONTRACTOR TO COORDINATE BOOSTER PUMP LOCATION WITH CHIPOTLE CONSTRUCTION MANAGER.
- 2 CONTRACTOR TO COORDINATE ROUTING OF ALL INTERNAL STORM PIPING WITH CHIPOTLE CONSTRUCTION MANAGER AND ARCHITECT.



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SHANE R. HAMILTON, PE
FLORIDA LICENSE #75420
seal

CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

23068
comm. no.

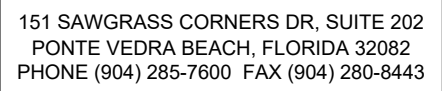
PLUMBING FLOOR PLAN

P100

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Tampa, FL 33603 (813) 251-6848

1 CONTRACTOR TO COORDINATE ROUTING OF ALL INTERNAL STORM PIPING WITH CHIPOTLE CONSTRUCTION MANAGER AND ARCHITECT.

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Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



**TO THE BEST OF THE KNOWLEDGE
OF THE ARCHITECTS AND
ENGINEERS, SAID PLANS AND
SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING
CODES AND THE APPLICABLE
MINIMUM FIRE SAFETY STANDARDS**

SHANE R. HAMILTON, PE
FLORIDA LICENSE #75420
seal

[illegible]

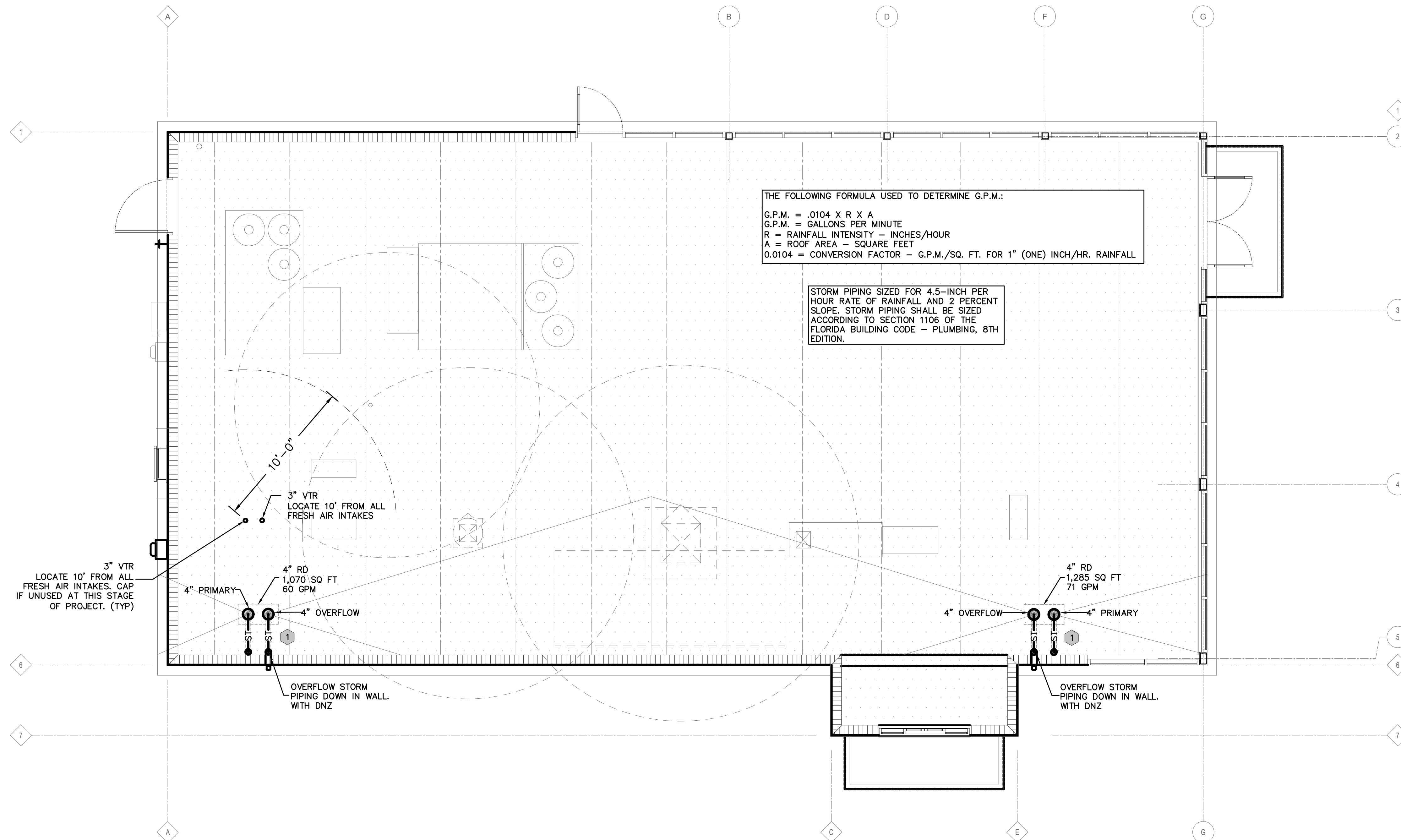
CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE.
PALM BAY, FLORIDA 32907


03.08.24
date

23068
comm. no.PLUMBING ROOF
PLAN

P200

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ROOF PLAN - PLUMBING 
SCALE: 1/4"=1'-0" 23.0151

NOTES

- CONDUIT RUN BELOW GRADE SHALL BE PVC SCHEDULE 40. RISERS SHALL BE RIGID STEEL CONDUIT(S) WHERE EXPOSED TO OUTSIDE ELEMENTS. SEE "ELECTRICAL MATERIAL SCHEDULE" SHEET E200.
- ALL UNDERGROUND SITE CONDUIT SHALL BE BURIED A MINIMUM OF 36 INCHES DEEP BELOW FINISHED GRADE TO TOP OF CONDUIT UNLESS OTHERWISE NOTED.
- PROVIDE COLOR TAPE FOR IDENTIFICATION AT 18 INCHES DEEP (ABOVE SERVICE CONDUIT RUNS) PER N.E.C. 300-5 (D) (3).
- ALL TURNS SHALL BE MADE WITH LONG SKEEP ELLS.
- CONTRACTOR SHALL PROVIDE ALL EXCAVATING AND BACK FILLING REQUIRED FOR ALL NEW WORK INCLUDING FILL, COMPACTION, SURFACE, ETC. TO MEET ALL REQUIREMENTS AS APPLICABLE FOR THE AREA.
- PRIOR TO THE START OF CONSTRUCTION, CONTRACTOR SHALL DETERMINE THE PRESENCE AND LOCATION OF ANY UNDERGROUND RACEWAYS SUCH AS TELEPHONE, ELECTRIC POWER, WATER, GAS, SEWAGE LINES, ETC. WHETHER PREVIOUSLY EXISTING OR AS INSTALLED BY OTHER TRADES, TO AVOID INTERFERENCE WITH ANY SUCH SYSTEM.
- ALL SPARE, EMPTY CONDUITS SHALL BE LABELED AS TO THEIR FUNCTION.
- CONTRACTOR SHALL MAINTAIN AN AS-BUILT DIMENSIONAL DRAWING ON SITE SHOWING ALL UNDERGROUND SERVICE ROUTING AND TERMINATION POINTS.
- CONTRACTOR SHALL MEET ON SITE WITH REPRESENTATIVES OF THE UTILITY COMPANIES INCLUDING POWER, TELEPHONE, AND CABLE TO DETERMINE THE FOLLOWING: (PRIOR TO BID AND PRIOR TO ROUGH IN).

POWER COMPANY:

- A - VERIFY EXACT TRANSFORMER(S) LOCATION PRIOR TO BID.
- B - VERIFY PRIMARY CONDUIT WORK REQUIRED AND RESPONSIBILITY PRIOR TO BID.
- C - VERIFY METERING METHOD AND REQUIREMENTS, IF DIFFERENT FROM WHAT IS SHOWN ON THE DRAWINGS, NOTIFY ENGINEER IMMEDIATELY.

TELEPHONE COMPANY:

- A - ORIGINATION AND TERMINATION OF THE SERVICE CONDUITS.
- B - INSTALLATION SPECIFICATIONS, SIZE AND QUANTITY REQUIRED. HOWEVER, MAINTAIN QUANTITY AND SIZES SHOWN ON PLANS, IF IN EXCESS OF UTILITY REQUIREMENTS.

NOTE:

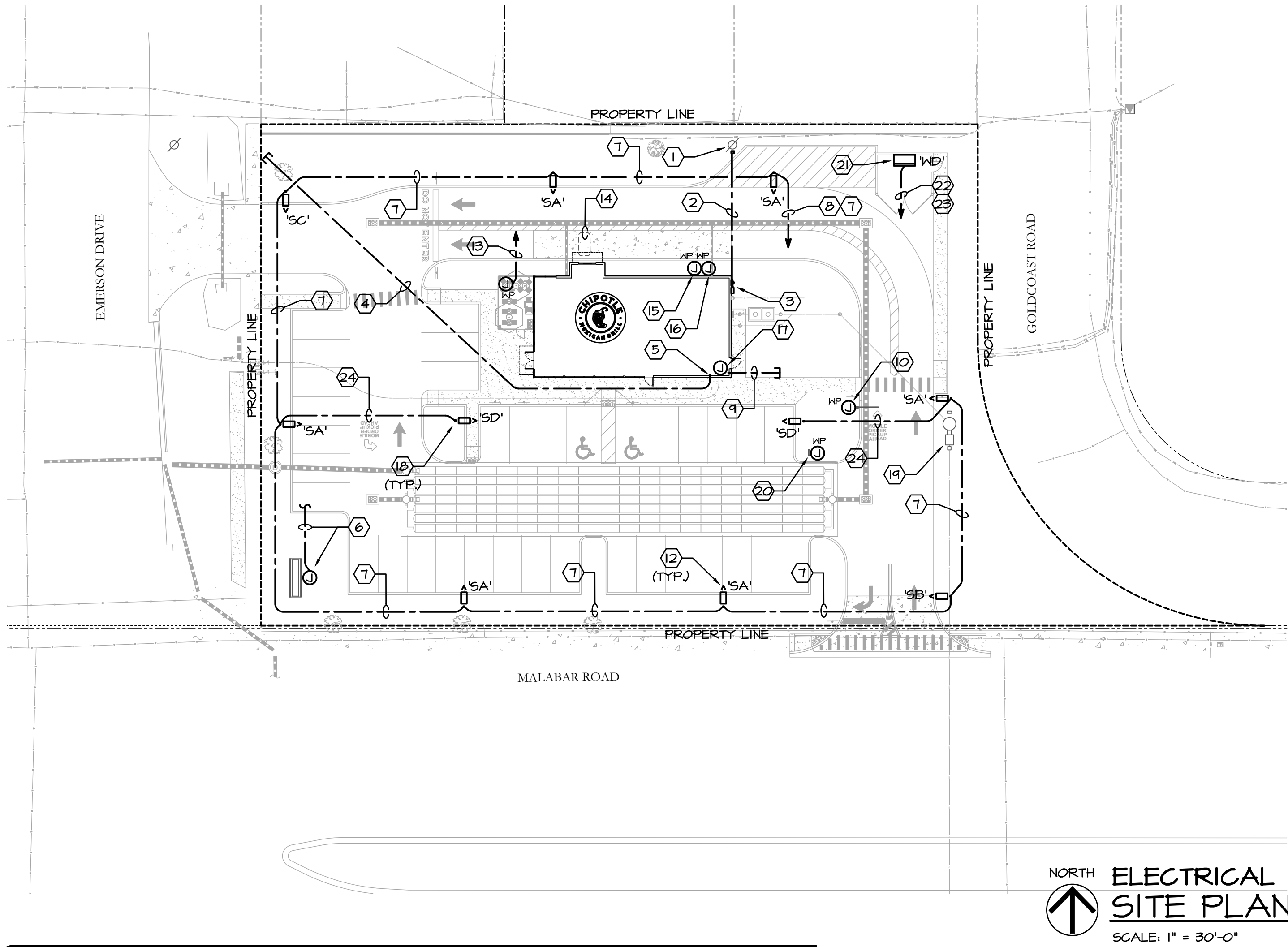
CONTRACTOR'S FAILURE TO COMPLY WITH THESE COORDINATION PROCEDURES WILL CONSTITUTE THE CONTRACTOR ASSUMING ALL COSTS ASSOCIATED WITH REPLACING ANY AND ALL WORK ALREADY IN PLACE TO MEET UTILITY COMPANIES' RULES AND REQUIREMENTS.

NB3

NOTES

- NEW POL MOUNTED 120/208V, 3-PHASE TRANSFORMERS BANK WITH PEDESTAL AT THE BASE OF THE POLE FOR TIE-IN OF SECONDARY FEEDERS. FIELD VERIFY EXACT LOCATION PRIOR TO BID AND/OR ROUGH IN. SEE SHEET E300 FOR ADDITIONAL INFORMATION.
- SECONDARY FEEDERS BY ELECTRICAL CONTRACTOR. SEE POWER RISER DIAGRAM ON SHEET E300.
- ELECTRIC SERVICE, INCLUDING METER AND DISCONNECT MOUNTED OUTSIDE REAR OF THE BUILDING. SEE RISER ON SHEET E300.
- PROVIDE TWO 2" SCHEDULE 40, EMPTY CONDUITS WITH PULL WIRE FOR TELEPHONE/DATA. TERMINATE AT PROPERTY LINE PER UTILITY COMPANY DIRECTION.
- TELEPHONE AND CABLE T.V. SERVICE CONDUITS. COORDINATE EXACT LOCATION WITH INTERIOR TI PLANS PRIOR TO ROUGH-IN.
- POLE SIGN. SEE NOTE #5 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- 4-#8, 1-#8 E.G. IN 1" CONDUIT.
- STUB-UP AT CHIPOTLE PROPOSED PANEL LOCATION. COIL AND TAPE 20'-0" OF CONDUCTORS FOR FUTURE TIE-IN TO CHIPOTLE PANEL UNDER TI DOCUMENTS.
- PROVIDE 2" EMPTY CONDUIT WITH PULL STRINGS RUN THROUGH THE FOUNDATION WALL AT THE REAR OF THE BUILDING, CAPPED AND TERMINATED ABOVE THE CEILING. VERIFY LOCATION FOR STUB UP WITH HE TENANT REPRESENTATIVE PRIOR TO ROUGH IN.
- LIT CLEARANCE BAR. SEE NOTE #4 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- LIT DIRECTIONAL SIGN. SEE NOTE #5 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- FIXTURE OPTICS ORIENTATION. COORDINATE WITH THE FIXTURE MANUFACTURER FOR PROPER ORIENTATION PRIOR TO FINAL INSTALLATION.
- PROVIDE CONDUIT WITH PULL WIRE FOR PATIO POST LIGHTS. SEE NOTE #6 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- VEHICLE DETECTOR LOOP. SEE NOTES #1 & #2 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- 1" SPARE CONDUIT FOR LOW VOLTAGE. SEE NOTE #9 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- 1" SPARE CONDUIT FOR LINE VOLTAGE. SEE NOTE #10 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- INTERIOR J-BOXES AT 11'-0" A.F.F. FOR LINE VOLTAGE AND LOW VOLTAGE SITE WIRING. SEE NOTES #7 & #8 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- SITE LIGHTING POLE. SEE DETAIL SHEET E101.
- LIFT STATION. SEE DETAIL ON SHEET E101.
- 1" CONDUIT WITH PULL WIRE FROM "ANNOUNCE SIGN" LOCATION. SEE NOTE #3 UNDER "SITE CONDUIT DETAIL" THIS SHEET.
- LIGHT FIXTURE MOUNTED AT 6" BELOW THE TOP OF TRASH ENCLOSURE WALL. SEE FIXTURE SCHEDULE FOR SPECIFICATION. SEE ARCHITECTURAL DUMPSTER ELEVATION FOR EXACT LOCATION OF LIGHT FIXTURE. FIXTURE SHALL BE CONNECTED FROM THE END TO MAINTAIN MET LABEL LISTING OF THE FIXTURE. CONSULT FACTORY FOR WIRING DETAIL AND PROVIDE ACCORDINGLY.
- PROVIDE 3/4" CONDUIT WITH 2-#10, 1-#10 E.G.
- STUB-UP AT CHIPOTLE PROPOSED PANEL LOCATION. COIL AND TAPE 20'-0" OF CONDUCTORS FOR FUTURE TIE-IN TO CHIPOTLE PANEL UNDER TI DOCUMENTS.
- 2-#8, 1-#8 E.G. IN 1" CONDUIT.

N4A



NORTH
ELECTRICAL
SITE PLAN
SCALE: 1" = 30'-0"

SITE	LIGHTING FIXTURE SCHEDULE						
	TYPE	MANUFACTURER	CATALOG NO.	VOLT	LAMPS	LOAD (W)	MOUNTING
	SA	LITHONIA LIGHTING	DSXI LED P4 40K 10CRI BLG4 MVOLT CBA	208	LED	124	SEE POLE DETAIL SHEET E101
	SB	LITHONIA LIGHTING	DSXI LED P3 40K 10CRI LCCO MVOLT CBA	208	LED	103	
	SC	LITHONIA LIGHTING	DSXI LED P3 40K 10CRI RCCO MVOLT CBA	208	LED	103	
	SD	LITHONIA LIGHTING	DSXI LED P3 40K 10CRI T4M MVOLT H5 CBA	208	LED	103	
	WD	LITHONIA LIGHTING	DSXNI LED 10C 1000 40K T3M MVOLT PIRFC3V CBA	208	LED	39	WALL AT DUMPSTER
GENERAL NOTES:							
1. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES.				3. FIXTURE AND POLE FINISH COLOR AS SELECTED BY ARCHITECT.			
2. ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).				4. CBA = COLOR OR FINISH AS SELECTED BY ARCHITECT.			

GENERAL NOTE:

COORDINATE ALL TENANT'S SITE CONDUITS FOR DRIVE EQUIPMENT, SIGNS, DIRECTIONAL SIGNS, ETC... WITH PROJECT MANAGER ON SITE PRIOR TO ROUGH-IN.

UTILITY COORDINATION:

TO THE BEST OF OUR ABILITY THE SERVICE HAS BEEN COORDINATED WITH THE UTILITY COMPANY REPRESENTATIVE(S) FOR:

- TRANSFORMER(S) LOCATION.
- CUSTOMER RESPONSIBILITY.
- REQUESTED VOLTAGE & AVAILABILITY.
- MEETING REQUIREMENTS.

IT IS THE CONTRACTOR RESPONSIBILITY TO REVISIT THESE ITEMS WITH UTILITY PROJECT ENGINEER TO VERIFY THAT THE CURRENT DESIGN SHOWN ON THE CONSTRUCTION DOCUMENT(S) ARE STILL IN COMPLIANCE WITH THE UTILITY PLANS TO SERVICE THIS SITE.

ANY COST ASSOCIATED WITH UTILITY FEES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS WITH THE DEVELOPER.

THIS COORDINATION SHALL BE A PART OF SITE MEETING TO BE SCHEDULED BY THE CONTRACTOR WITH THE UTILITY PERSONNEL PRIOR TO THE START OF THE PROJECT.

COORDINATION SHALL ALSO BE MADE WITH TELEPHONE AND CABLE SERVICE REPRESENTATIVE(S) FOR VERIFICATION OF THEIR REQUIREMENTS INCLUDING POINT OF CONNECTION AND TERMINATION POINTS.

105

UTILITY CONTACTS

POWER COMPANY: FP&L PROJECT #13022680
CONTACT: ZINEB ELKADIR
TELEPHONE No. (321) 126-4862
EMAIL ADDRESS: zineb.elkadire@fpl.com

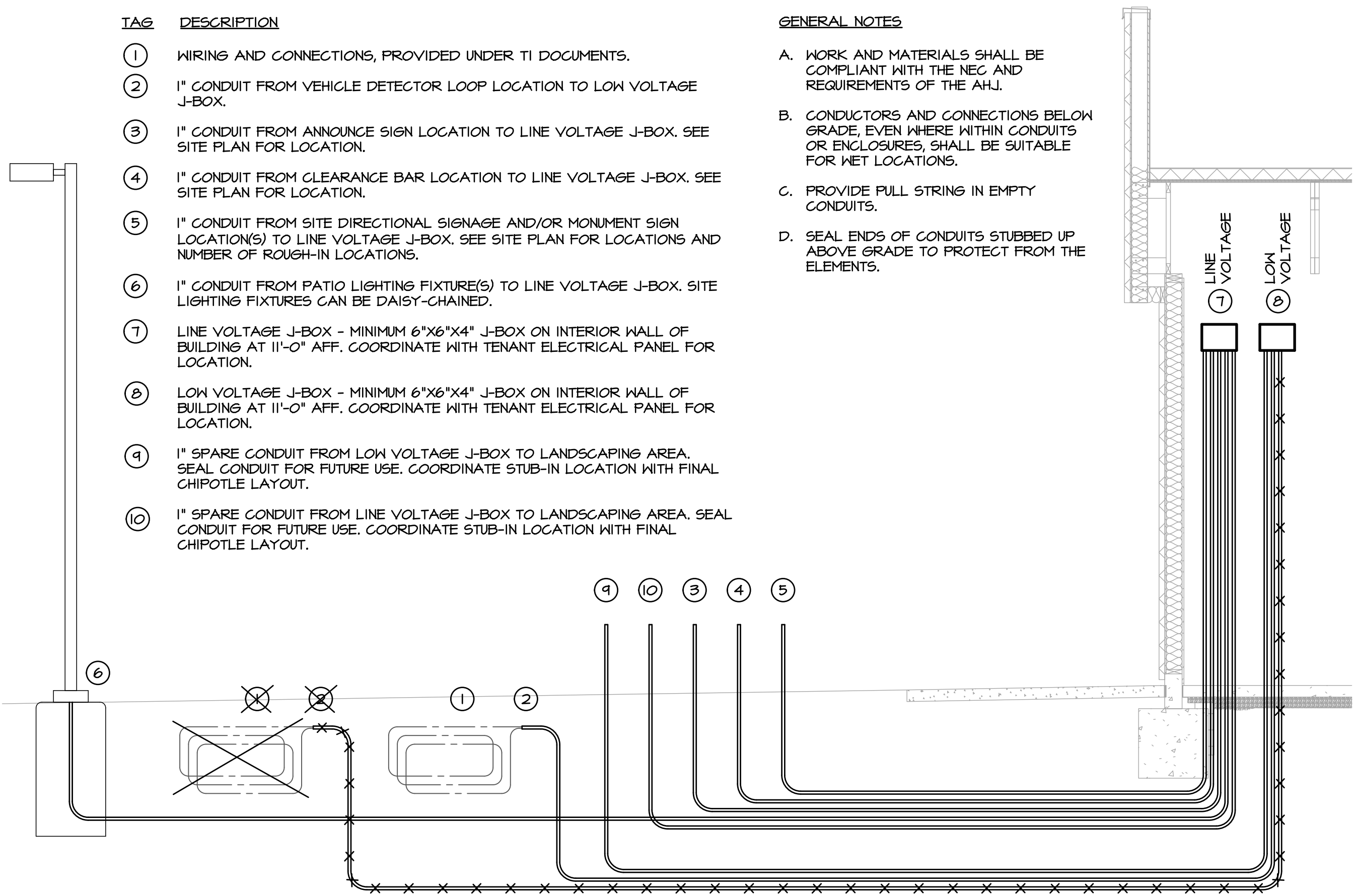
TELEPHONE COMPANY: AT&T
CONTACT: KIRK WALKER
TELEPHONE No. -
EMAIL ADDRESS: bw4222@att.com

TAG DESCRIPTION

- WIRING AND CONNECTIONS, PROVIDED UNDER TI DOCUMENTS.
- 1" CONDUIT FROM VEHICLE DETECTOR LOOP LOCATION TO LOW VOLTAGE J-BOX.
- 1" CONDUIT FROM ANNOUNCE SIGN LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.
- 1" CONDUIT FROM CLEARANCE BAR LOCATION TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATION.
- 1" CONDUIT FROM SITE DIRECTIONAL SIGNAGE AND/OR MONUMENT SIGN LOCATION(S) TO LINE VOLTAGE J-BOX. SEE SITE PLAN FOR LOCATIONS AND NUMBER OF ROUGH-IN LOCATIONS.
- 1" CONDUIT FROM PATIO LIGHTING FIXTURE(S) TO LINE VOLTAGE J-BOX. SITE LIGHTING FIXTURES CAN BE DAISY-CHAINED.
- LINE VOLTAGE J-BOX - MINIMUM 6"x6"x4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. COORDINATE WITH TENANT ELECTRICAL PANEL FOR LOCATION.
- LOW VOLTAGE J-BOX - MINIMUM 6"x6"x4" J-BOX ON INTERIOR WALL OF BUILDING AT 11'-0" AFF. COORDINATE WITH TENANT ELECTRICAL PANEL FOR LOCATION.
- 1" SPARE CONDUIT FROM LOW VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE. COORDINATE STUB-IN LOCATION WITH FINAL CHIPOTLE LAYOUT.
- 1" SPARE CONDUIT FROM LINE VOLTAGE J-BOX TO LANDSCAPING AREA. SEAL CONDUIT FOR FUTURE USE. COORDINATE STUB-IN LOCATION WITH FINAL CHIPOTLE LAYOUT.

GENERAL NOTES

- WORK AND MATERIALS SHALL BE COMPLIANT WITH THE NEC AND REQUIREMENTS OF THE AHJ.
- CONDUCTORS AND CONNECTIONS BELOW GRADE, EVEN WHERE WITHIN CONDUITS OR ENCLOSURES, SHALL BE SUITABLE FOR WET LOCATIONS.
- PROVIDE PULL STRING IN EMPTY CONDUITS.
- SEAL ENDS OF CONDUITS STUBBED UP ABOVE GRADE TO PROTECT FROM THE ELEMENTS.



SITE CONDUIT DETAIL

N.T.S.

LIFT STATION

- # CONCRETE POLY

NOTES:

- NOTES:

- FIXTURE NOTE:

N50

[illegible]

Diagram illustrating the installation of a NEMA 4X Control Panel Box. The box is mounted on a vertical support. Key components and dimensions are labeled:

- 6: Mounting flange or base.
- 7: Mounting bracket or flange.
- 8: Mounting flange or base.
- 9: NEMA 4X CONTROL PANEL BOX.
- 10: Mounting flange or base.
- 11: Mounting flange or base.
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- 99: Mounting flange or base.
- 100: Mounting flange or base.

Dimensions and labels:

- 6" MIN. (Minimum distance between mounting points)
- 10" MAX. (Maximum distance between mounting points)
- GRADE (Ground level reference line)

NO SCALE

Diagram illustrating the lift station components and ratings:

- ALL EQUIPMENT WITHIN A 10FT DIAMETER OF THE EDGE OF THE LIFT STATION AND UP TO ABOVE SHALL BE RATED FOR CLASS I, PER N.E.C. ARTICLE 500. SEE SITE PLAN SHEET FOR ADDITIONAL INFORMATION.**
- ALL EQUIPMENT WITHIN THIS AREA OF THE LIFT STATION SHALL BE RATED FOR CLASS I, DIVISION I, PER N.E.C. ARTICLE 500.**
- NOTE: COORDINATE WITH SITE CONTRACTOR FOR ADDITIONAL REQUIREMENTS.**

NO SCALE

BACK VIEW



ALL SITE AND BUILDING LIGHTS
PROPOSED ON THIS PROJECT
ARE DESIGNED AS FULL CUTOFF
CLASSIFICATION WITH ZERO UP
LIGHT COMPONENTS.

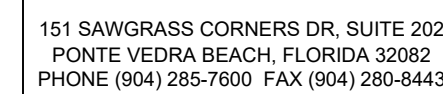
THESE PHOTOMETRICS ARE INTENDED FOR DESIGN AND EVALUATION PURPOSES ONLY. THE POINT-BY-POINT SHOWN IS BASED ON A COMPUTER LIGHTING PROGRAM WITH APPROXIMATED PARAMETERS. THEREFORE, THESE PHOTOMETRICS MAY VARY FROM ACTUAL FIELD CONDITIONS.

Surface Schedule							
		Reflectance		Normal			
Name	Front	Back	X	Y	Z	Area(lb	
Solid							
Bottom	0%	0%	0.00	0.00	-1.00	2494.37	
Side 1	0%	0%	-1.00	0.00	0.00	1048.22	
Side 2	0%	0%	0.00	1.00	0.00	369.86	
Side 3	0%	0%	-1.00	0.00	0.00	139.76	
Side 4	0%	0%	0.00	1.00	0.00	374.07	
Side 5	0%	0%	1.00	0.00	0.00	139.76	
Side 6	0%	0%	0.00	-1.00	0.00	1315.42	
Side 7	0%	0%	1.00	0.00	0.00	1084.66	
Side 8	0%	0%	0.00	-1.00	0.00	2063.56	
Side 9	0%	0%	-0.97	0.24	0.00	18.95	
Top	0%	0%	0.00	0.00	1.00	2494.37	
Solid							
	10%	10%	-1.00	0.00	0.00	107.89	
	10%	10%	0.00	1.00	0.00	150.20	
	10%	10%	1.00	0.00	0.00	108.40	
	10%	10%	0.00	-1.00	0.00	147.37	

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
1. PROPERTY LINE	+	0.2 f	0.7 f	0.0 f	N/A	N/A
2. OVERALL PARCEL	+	2.7 f	12.2 f	0.0 f	N/A	N/A
3. PAVED AND PARKING AREAS	X	3.7 f	12.2 f	1.2 f	10.2 f	3.1 f
4. DUMPSTER AREA	+	5.0 f	8.8 f	2.9 f	3.0 f	1.7 f
5. PICK UP WINDOW	+	9.5 f	13.1 f	5.3 f	2.5 f	1.8 f
6. PATIO AREA	+	7.9 f	9.2 f	6.2 f	1.5 f	1.3 f

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24-12



TO THE BEST OF THE KNOWLEDGE OF
THE ARCHITECTS AND ENGINEERS, PLAN
AND SPECIFICATIONS COMPLY WITH THE
APPLICABLE MINIMUM BUILDING CODES
AND THE APPLICABLE MINIMUM FIRE
SAFETY STANDARDS

SOUHEIL CHEHAYEB, P.E.
FL License No. 49521

revision descriptions

no.	date
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CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

23068
comm. no.PHOTOMETRIC
SITE PLAN

E 101

Technical Specifications		
Compliance	Dimming Driver: Driver includes dimming circuit wiring for 0-10V Dimming operation. Requires separate 0-10V DC dimming circuit. Dimm down to 10%.	Gaskets: High-Temperature Silicone
UL Listed: Suitable for Wet Locations as a Downtight. Suitable for Damp Locations as an Uplight. Wall Mount only. Suitable for Mounting within 4ft. of Ground.	THD: 6.51% at 120V, 13.57% at 277V	LED Characteristics Color Consistency: 3 ring MacAdam Elipse binning to achieve consistent fixture-to-fixture color
IESNA LM-79 & LM-80 Testing: RAB1 LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80	Power Factor: 99% at 120V, 90.6% at 277V	Color Stability: LED color temperature is warranted to shift no more than 200K in color temperature over a 5 year period
DLC Listed: This product is on the Design Light Consortium (DLC) Qualified Products List and is eligible for rebates from DLC Member Utilities. Designed to meet DLC S1 requirements. DLC Product Code: PHSX202C	Construction Feeds: Formulated for high durability and long-lasting color. Cold Weather Starting: The minimum starting temperature is -40°C (-40°F)	Color Uniformity: RAB's range of Correlated Color Temperature follows the specifications of the American National Standard for Guidelines for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.373-2017.
Performance Lifespan: 100,000-hour LED lifespan based on IES LM-80 results and MT-21 calculations	Maximum Ambient Temperature: Suitable for use in up to 40°C (104°F)	Lumen Maintenance: The LED will deliver 70% of its initial lumens at 100,000 hours of operation
Wattage Equivalency: Equivalent to 70W Metal Halide	Housing: Precision die cast aluminum housing, lens frame	Other Patents: The design of the LPACK is protected by U.S. Pat. D664,004 and patents pending in Canada, China and Taiwan.
Electrical Driver: Constant Current, Class 2, 130-277V, 50/60Hz, 120V: 0.09A, 208V:0.05A, 240V:0.05A, 277V:0.04A	Mounting: Surface plate and Junction box	
	Green Technology: Mercury and UV free. RoHS-compliant components	

Need help? Tech help line: (888) 722-1000 | Email: sales@rablighting.com | Website: www.rablighting.com
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Page 3 of 3

Ordering Information **EXAMPLE:** DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSMT LED									
Series	LEDs	Drive Current	Color temperature	Description	Voltage	Mounting	Control Options	Other Options	Finish required
DSMT LED	10K (100 LEDs per foot)	350 mA/10A	20K 3000K	T5S Type I Short	100V ¹ 120V ¹	(Slipk) Surface mounting	Shipped installed	Shipped installed	DBR10 Dark bronze
	20K 200 LEDs per foot	350 mA/10A	20K 3000K	T5S Type I Medium	240 ² 347 ²	BBW Surface-mounted (back lock)	DMC 6-100 watt/antiref type 4 ³	SP Single-line (100, 270 or 400V)	DBR10 Dark bronze
	20K 200 LEDs per foot	1000 mA/10A (1A)	AMBER Amber phosphor converted	T5S Type I Short	347 ²	BBW Surface-mounted (back lock)	DMC 6-100 watt/antiref type 4 ³	DF Double line (200, 400 or 800V)	DBR10 Dark bronze
				TM Type II Medium	347 ²	BBW Surface-mounted (back lock)	PR 100 watt/antiref type 4 ³	HS House-side surge protection ⁴	OS500 Sandstone white
				TM Type II Medium	347 ²	PR 100 watt/antiref type 4 ³	ELCW Emergency battery back-up (includes external component enclosure) ⁵	SP Separate surge protection ⁴	DBR10 Dark bronze
				TM Form T5 Medium					DMAT0 Textured natural aluminum
				TM Form T5 Medium					DMW20 Textured white
				ASTM Asymmetrical diffuse					DS520 Inboard sandstone

NOTES

1 DMAT0 driver operates on any line voltage from 120-277V/50/60Hz. Specify 120, 208, 240 or 277V options only when ordering with fusing SF. SF option, or photoreactive (PR) option.

2 Only available with 20K, 7000K or 10000K. Not available with PR or PRR.

3 Back splice tabs installed on fixture. Cannot be field-installed. Cannot be ordered as an accessory.

4 DMAT0, DMW20, DS520, 240, 277 or 480V options. Not available with motion sensor light sensor PR or PRR.

5 Back splice the Sensor Switch 1500, 2000, 2400, 277 or 480V options. See Motion Sensor Switch for details. Includes ambient light sensor. Not available with "SP" option (butler type photoreactive). Requires fire stamped. Not available with 20 LED/1000 mA configuration DSMT LED 200, 1000.

6 Cold weather (CWC) rated. Not available with any emergency mode. Not available with BBW mounting option. Not available with fusing. Emergency components located in back box housing. Applications: ES is located on copper pipe at mms.led.com/es.

7 Single line 277 requires 120, 277 or 480 voltage option. Double line 480V requires 208, 240 or 480 voltage option. Not available with ELCWC.

8 Also available as a separate accessory. See Accessories information.

9 See the electrical section on page 1 for more details.

Accessories

DSMT010	Double ended (dead end) light input
DSMT015	House-side surge protection
DSMT016	Wire guard accessory
DSMT017	Backward guard accessory

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Ordering Information **EXAMPLE:** DSXW1 LED 20C 1000 40K T3M MVOLT DDBTX


[illegible]

Ordering Information **EXAMPLE:** DSXW1 LED 20C 1000 40K T3M MVOLT DDBTXD

DSX17 LED									
Series	LEDs	Drive Current	Color temperature	Distribution	Voltage	Mounting	Control Options	Other Options	Finish <i>required</i>
DSX17 LED	10C (10 LEDs per input) 20C (20 LEDs per input)	350 350mA 500 350mA 1000 350mA	20K 3000K 40K 4000K 50K 5000K AMB* Ambient phosphor converted	T25 Type 1 Short T26 Type 1 Medium T35 Type 1 Short T36 Type 1 Medium T37M Form 2 Medium T4M Type 1 Medium T5M Form 2 Medium ASTM Asym-metric diffuse	MW01 120V 200V 240V 277V 347V 480V	Strip (back) Die-cast Surface mounting 2x6" 2x6" 2x7" 2x7" 4x8"	Shipped insulated PH Photocentric cell, button type* DMG 0.5W diffused driver (CFL type) FIR 120V/240V/277V/347V/480V ambient light sensor, 15-30° angle† PWR 120V/240V/277V/347V/480V ambient light sensor, 15-30° angle† ELCW Emergency battery back-up (includes external component enclosure)	Shipped insulated S Single tone (10,27 or 347V) D Double tone CFL, 2x4V or 4x8V HS Haze-out glass SPD Surge protection† BSW Back scatter aluminum WLG Wavelength VC Vertical diffuser DL Diffused dropless	DBR18 Black bronze DL180 Black DNW18 Duralumin D18W18 Duralumin aluminum SW18 White SS18 Sandstone IB180 Insulated black bronze DL180 Insulated black DNW18 Insulated duralumin W180 Insulated white SS180 Insulated sandstone

NOTES

- MW01 driver operates on any line voltage from 120-277VAC/60 Hz. Specify 120V, 200V, 240V or 277V options when ordering with lighting fixture.
- DF optional, or photocentric (PE) type.
- Only available with 20C, 200mA or 1000mA. Not available with PH or PHM.
- Back box sizes detailed on future, Contact B-Line. Contact cannot be ordered as accessory.
- Photocentric (PE) requires 100, 200, 240, 277 or 347-voltage option. Not available with motion sensor light sensor PH or PHM.
- PH specifies the Sensor Switch 150/20/0-CCOF control. Cannot be specified. Cannot be ordered as accessory. See Motion Sensor Switch for PHM specifications.
- Back box, Includes ambient light sensor. Not available with "PE" optional button type photocentric. Drawing three standard. Not available with 20 LED 1000 mA component (DSX17 LED 1000, 350mA).
- Cold weather (COC) required. Not applicable with all applications. Not available with BSW mounting option. Not available with fusing.
- Emergency component located in back box housing. Emergency mode ES (see ES kit located on page 100) (www.lithonia.com).
- Single tone (S) requires 120, 277 or 347-voltage option. Double tone (D) requires 20C, 240V or 480V voltage option. Not available with ELCW.
- Also available as a separate accessory; see accessories information.
- See the electrical section on page 16 for more details.



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Accessories

DSX18C	Hard-to-find drop-in light fixture
DSX18D	Back scatter optics
DSX18W	Warm white accessory
DSX18V	Vertical diffuser accessory



FWH
Architects

3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



**THE FERBER
— COMPANY —**

151 SAWGRASS CORNERS DR, SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 280-8443

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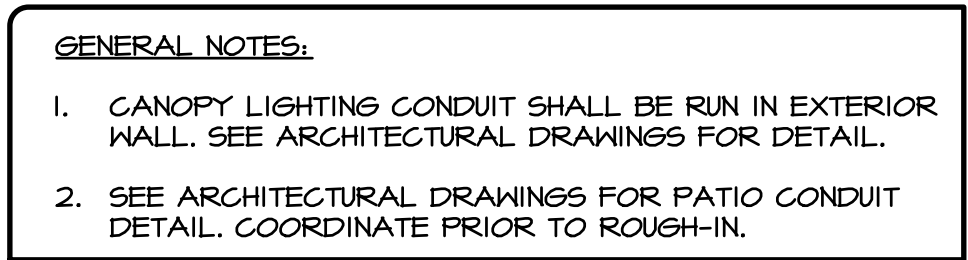
CHIPOTLE MEXICAN GRILL
BUILDING SHELL

1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24 date
23068 comm. no.
FIXTURE INFORMATION
E 102

WIRE SIZING NOTE:

WHERE WIRE SIZES ARE SHOWN ON DRAWING OR PANEL SCHEDULE,
THE SAME WIRE SIZE, AS A MINIMUM, SHALL BE CARRIED
THROUGHOUT THE CIRCUIT. TYPICAL FOR ALL DRAWINGS.



LIGHTING

FIXTURE SCHEDULE							
TYPE	MANUFACT.	CATALOG NO.	VOLT	LAMPS	MOUNTING	WATTS	REMARKS
X9	PARADIGM LED	PL-PS-M200/M100/M40-DIM-24 (LED DRIVER) FLEXSR-45-30-6TC-24-XX (LED LINEAR RIBBON, OUT DOOR RATED) AMC-2410-S-XX-EG/ECL-O (LED LINEAR STRIP CHANNEL WITH OPAL LENS) (COORDINATE ALL CAT. NO. WITH MANUFACTURER, PARADIGM LED AT 303-394-0386 AND PROVIDE ALL ACCESSORIES AS REQUIRED FOR A COMPLETE PROJECT) XX= FIELD VERIFY EXACT LENGTH PRIOR TO ORDERING.	120	INCLUDED IN LED RIBBON	SURFACE	4.5 W/LF	REFER TO ARCH. ELEVATIONS FOR MOUNTING INFORMATION FURNISHED W/RENOTE-MTD NEMA 3R DIMMABLE LED DRIVER SEE PLANS FOR LENGTHS
WA	RAB LIGHTING, INC.	[WFL, A]LEDIOY	120	LED	EXTERIOR WALL	12	SEE ARCHITECTURAL EXTERIOR ELEVATION FOR LOCATION
WB	LITHONIA	DSXW-LED-10C-1000-40K-T3M-MVOLT	120	LED	EXTERIOR WALL	39	SEE ARCHITECTURAL EXTERIOR ELEVATION FOR LOCATION
WCE	LITHONIA	DSXW-LED-10C-1000-40K-T3M-MVOLT-ELCW	120	LED	EXTERIOR WALL WITH BACKUP BATTERY	39	SEE ARCHITECTURAL EXTERIOR ELEVATION FOR LOCATION

GBA = COLOR SELECTED BY ARCHITECT.

NOTES:

1. WHERE USED, ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING TS, TSHO, OR T8 LAMPS WITH ELECTRONIC BALLASTS.

2. PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES. FIXTURES, ACCESSORIES SHALL INCLUDE ALL HARDWARE TO MOUNT FIXTURES AS SHOWN ON SCHEDULES AND/OR DESCRIBED IN THE NOTES.

3. ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL. (EQUALS ONLY).

4. ALL EMERGENCY, EXIT, AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL SWITCHES, RELAYS, OR CONTACTORS UNLESS OTHERWISE NOTED.

5. ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.

6. ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING SYSTEM.

7. EQUAL ACCEPTED MANUFACTURERS ARE: DAY-BRITE, LITHONIA, COLUMBIA. EVEN THOUGH THESE MANUFACTURERS ARE ACCEPTED, A TEN DAY PRIOR APPROVAL MUST BE SUBMITTED FOR EVALUATION.

8. CATALOG NUMBER ON FIXTURE SCHEDULE MAY NOT REFERENCE EVERY HARDWARE COMPONENT REQUIRED TO MOUNT FIXTURE AS INTENDED. VERIFY WITH MANUFACTURER FOR PROPER MOUNTING HARDWARE AND ANY ADDITIONAL COMPONENTS REQUIRED TO MOUNT FIXTURE AS INTENDED OR SHOWN.

9. WHERE USED, ALL LINEAR TYPE FLUORESCENT LUMINAIRES SHALL COMPLY WITH N.E.C. 410.130(G) FOR BALLAST DISCONNECT.

10. WHERE USED, LAMPS SHALL BE ENERGY SAVING WITH COLOR TEMPERATURE AS SHOWN ON SCHEDULE WITH MINIMUM CRI OF 82.

11. WHERE USED, LAMPS SHALL BE BY SYLVANIA, G.E., OR PHILIPS, EXCEPT WHEN SUCH LAMPS ARE NOT AVAILABLE FROM THESE MANUFACTURERS, OR SPECIFIED OTHERWISE IN SCHEDULE.

12. SHOP DRAWINGS SHALL INCLUDE:

A. COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.

B. BALLAST CUT SHEETS.

C. LAMP CUT SHEETS.

13. UNLESS OTHERWISE NOTED, (NL) DENOTES A 'NIGHT LIGHT' FIXTURE. NIGHT LIGHT FIXTURES SHALL BE UNSWITCHED. EMERGENCY BALLAST SHALL BE TIED TO A CONSTANT HOT AHEAD OF LOCAL SWITCHING AND/OR CONTROL PANEL.

14. BATTERY BALLAST IN THE FLUORESCENT FIXTURES SHALL BE UL 424 LISTED AND COMPLY WITH NFPA 101 LIFE SAFETY CODE SECTION 7.9. THE SYSTEM SHALL BE PERIODICALLY TESTED PER NFPA 101 SECTION 7.9.3.1.

15. COORDINATE TRACK LENGTH WITH PLAN AND CUT ACCORDINGLY, IF NOT A STANDARD TRACK LENGTH.

16. PROVIDE ALL REQUIRED 0-10V WIRING TO 0-10V DIMMABLE FIXTURES AND CONTROLS AS REQUIRED. THIS 0-10V LOW VOLTAGE WIRING IS NOT SHOWN ON PLANS FOR DRAWING CLARITY. 0-10V WIRING SHALL BE TYPE COMPATIBLE WITH THE FIXTURE DIMMING DRIVER TYPE (CLASS 1 OR 2). CONTRACTOR SHALL COORDINATE WITH MANUFACTURER FOR CABLE TYPE, SIZE, AND INSTALLATION REQUIREMENT AND COMPLY ACCORDINGLY. ALL WIRING SHALL BE IN COMPLIANCE WITH N.E.C. ARTICLE 725.

17. PROVIDE WIRING AS REQUIRED FOR STEP DIMMING FIXTURES. CONTROL WIRING NOT SHOWN ON THESE DOCUMENTS FOR DRAWING CLARITY.

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- (1) PROVIDE WEATHERPROOF JUNCTION BOX FOR SIGNAGE WITH 3/4" CONDUIT STUBBED INTO SPACE AT ACCESSIBLE LOCATION. WIRING, DISCONNECT SWITCHES, AND FINAL CONNECTION BY TENANT IMPROVEMENT CONTRACTOR. COORDINATE EXACT LOCATION WITH OWNER AND TENANT. J-BOX SHALL BE LOCATED WITHIN 6'-0" OF THE SIGN.
- (2) ELECTRICAL SERVICE LOCATION. REFER TO POWER RISER DIAGRAM ON SHEET E300 FOR ADDITIONAL DETAILS.
- (3) SHOW WINDOW RECEPTACLES, IN ACCORDANCE WITH N.E.C. 210.62, TO BE FURNISHED AND INSTALLED BY OTHERS, AT TIME OF TENANT IMPROVEMENTS.
- (4) PROVIDE J-BOX WITH I-GANG PLASTER RING FOR AIR CURTAIN. CONNECT AIR CURTAIN TO OPERABLE WINDOW PER MANUFACTURER INSTALLATION INSTRUCTIONS. CONDUIT SHALL BE CONCEALED IN WALL AND STORE FRONT SYSTEM. PROVIDE 3/4" CONDUIT WITH PULL WIRE TO ABOVE CEILING SPACE, IN AN ACCESSIBLE LOCATION.
- (5) PROVIDE 4"x4" JUNCTION BOX FOR PICK-UP WINDOW POWER. PROVIDE FINAL CONNECTION TO PICK-UP WINDOW CONCEALED IN WALL PER MANUFACTURER INSTALLATION INSTRUCTIONS. PROVIDE 3/4" CONDUIT WITH PULL WIRE TO ABOVE CEILING SPACE, IN AN ACCESSIBLE LOCATION.
- (6) DUPLEX RECEPTACLE WITH 1/2" CONDUIT WITH PULL WIRE STUBBED AT THE CEILING STRUCTURE FOR MAINTENANCE.
- (7) J-BOX FOR POWERING EXTERIOR LIGHTING SHOWN. PROVIDE 2-#10, 1-#10 E.G. IN 3/4" CONDUIT TO ABOVE PROPOSED TENANT PANEL LOCATION.
- (8) EXTERIOR LIGHT FIXTURE. SEE ARCHITECTURAL PLANS SHEETS A404 AND A405 FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.
- (9) TELEPHONE/DATA CONDUIT WITH PULL WIRE. COORDINATE EXACT LOCATION WITH TENANT. CONDUIT SHALL BE STUBBED UP 12", GAPPED AND LABELED IN SPACE. SEE SITE PLAN SHEET E100 FOR CONTINUATION.
- (10) ALL LANDLORD'S BASE BUILDING WIRING RUNNING THROUGH TENANT'S CEILING SHALL BE ENCASED IN EMT OR IMC CONDUIT, RUN TIGHT TO THE DECK, HOWEVER IT SHALL COMPLY WITH N.E.C. ARTICLE 300.4(E) AND BE EITHER PARALLEL OR PERPENDICULAR TO THE MAIN ENTRY STOREFRONT. THERE SHALL BE NO DIAGONAL RUNS OR AND ALL CONDUITS SHALL BE IN STRAIGHT LINES.
- (11) OPTIONAL BOOSTER PUMP, TO BE POWERED UNDER INTERIOR DESIGN PACKAGE, IF REQUIRED.
- (12) STUB-UP CONDUITS WITH FEEDER WIRE. SEE RISER DIAGRAM SHEET E300. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATION.
- (13) 8"x8"x4" J-BOX AT 11'-0" A.F.F. FOR CONNECTION OF THE CONDUITS AND CONDUCTORS FROM SITE LIGHTING.
- (14) INSTALL LED DRIVERS FURNISHED WITH THE 'X9' STRIP LIGHTS ON WALL 6" ABOVE CEILING IN AN ACCESSIBLE LOCATION. PROVIDE LOW VOLTAGE WIRING FROM THE LED DRIVER TO THE 'X9' LIGHT FIXTURES AS SHOWN.
- (15) NO CONDUITS SHALL BE RUNNING WITHIN THIS AREA. CEILING WILL BE EXPOSED TO STRUCTURE IN THIS AREA.
- (16) DUPLEX RECEPTACLE WITH 1/2" CONDUIT WITH PULL WIRE STUBBED AT THE CEILING STRUCTURE FOR IRRIGATION CONTROLLER.
- (17) PROVIDE 3-#12 AND 1-#12 E.G. IN 1/2" CONDUIT TO A J-BOX, WITH IN BUILDING BAR JOIST, FOR FUTURE EXTENSION TO TENANT PANEL FOR POWER AND CONTROLS.
- (18) J-BOX FOR POWERING EXTERIOR LIGHTING SHOWN. PROVIDE 2-#10, 1-#10 E.G. IN 3/4" CONDUIT TO ABOVE PROPOSED TENANT PANEL LOCATION. MOUNT J-BOX TIGHT TO THE DECK.
- (19) STUB-UP CONDUIT FOR TELEPHONE / DATA SERVICE CONDUITS. FIELD VERIFY LOCATION PRIOR TO ROUGH IN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATION. HOLD THE CONDUITS TIGHT TO THE WALL.
- (20) PROVIDE A WEATHERPROOF REMOTE EMERGENCY HEAD. EXITRONIX-MLED-1-B-WP FIXTURE. FIELD COORDINATE EXACT MOUNTING AND LOCATION PRIOR TO ROUGH IN. PROVIDE 1/2" CONDUIT STUBBED INSIDE THE BUILDING FOR FUTURE TIE IN TO THE EXIT LIGHT ABOVE THE DOOR. EXIT LIGHT TO BE PROVIDED AS PART OF THE TI DOCUMENTS.

CONDUIT STUB-UP NOTE:

COORDINATE ALL STUB-UP LOCATIONS AND REQUIREMENTS WITH OWNER PRIOR TO ROUGH-IN. PROVIDE PULL WIRE FOR ALL EMPTY CONDUITS. CAP AND LABEL EACH CONDUIT STUB-UP.

WIRING NOTE:

ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING IN WALL CAVITY. NO EXPOSED WIRING OR CONDUIT PERMITTED.

DURING PREPARATION OF THESE SHELL CONSTRUCTION DOCUMENTS, TO THE FULLEST EXTENT POSSIBLE, UTILITY SIZES AND STUB-INS HAVE BEEN PROVIDED TO SATISFY TENANT REQUIREMENTS AND HAVE BEEN COORDINATED WITH CIVIL PLANS.

REFER TO ELECTRICAL AND PLUMBING DRAWINGS FOR
ADDITIONAL INFORMATION REGARDING UTILITY
STUB-IN SIZES AND LOCATIONS INCLUDING, BUT NOT
LIMITED TO, ELECTRICAL POWER, SANITARY WASTE,
DOMESTIC WATER, GREASE WASTE, TELEPHONE AND
CATV.

TO THE FULLEST EXTENT POSSIBLE, THE SHELL
GENERAL CONTRACTOR SHALL OBTAIN TENANT
FINISH-OUT PLANS TO VERIFY IF SPECIFIC LOCATIONS
FOR ANY UTILITY STUB-INS ARE REQUIRED AND SHALL
PLACE THEM ACCORDINGLY.

WORK SHOWN UNDER THIS PERMIT IS FOR SHELL BUILDING ONLY, ALL ADDITIONAL INTERIOR WORK TO BE PERFORMED UNDER SEPARATE PERMIT, PRIOR TO TENANT OCCUPYING SPACE.

CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
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23068
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ELECTRICAL PLAN

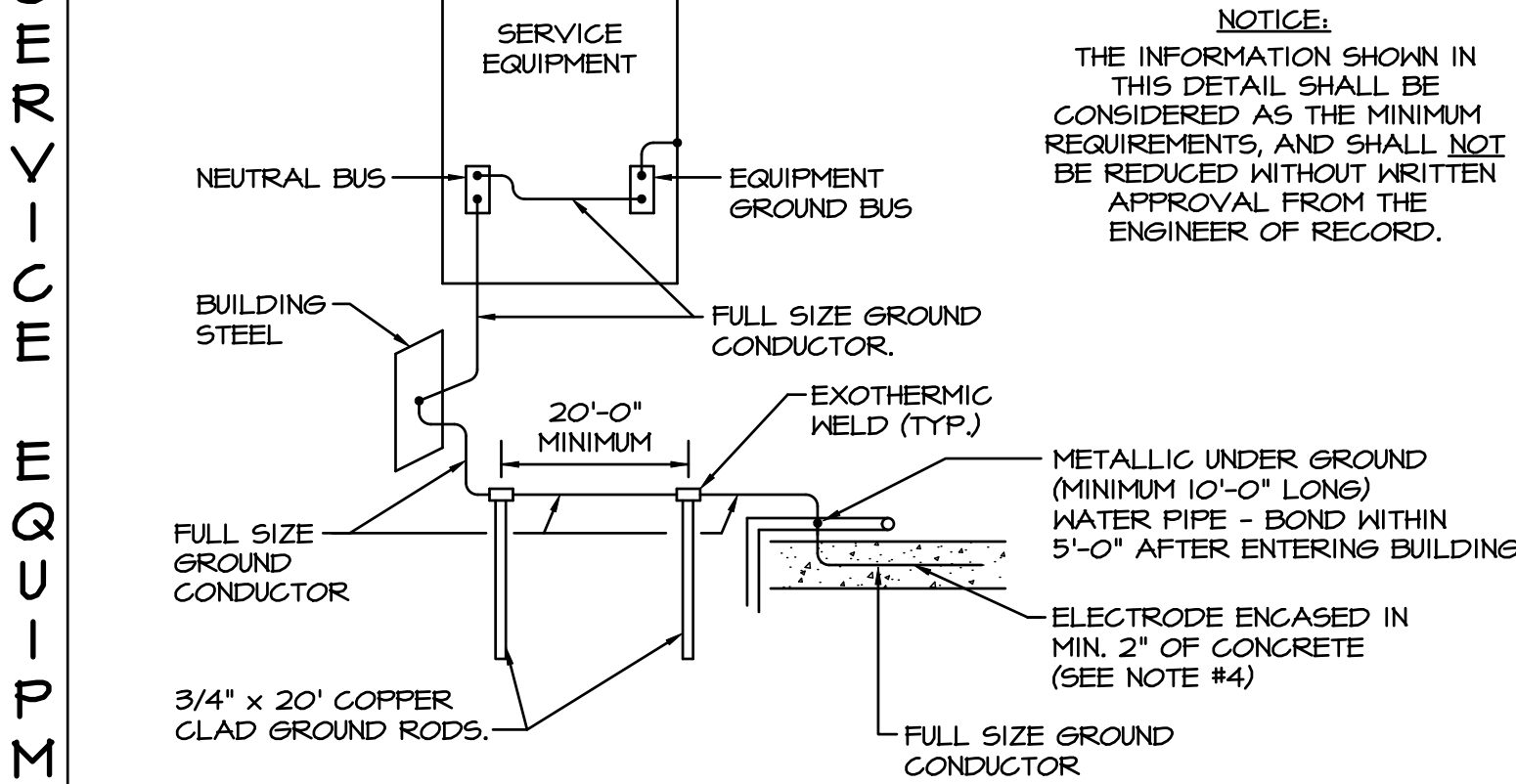
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ALUMINUM CONDUCTOR NOTES

- ALUMINUM CONDUCTORS SHALL BE AA-8000 SERIES ALUMINUM ALLOY, COMPACT STRANDED, TYPE XHHW INSULATION.
- ALUMINUM CONDUCTORS SHALL BE USED ONLY WHERE SPECIFIED ON THESE DRAWINGS. WHERE CONDUCTORS ARE NOT SPECIFIED THEY SHALL BE COPPER.
- ALL ALUMINUM WIRING INSTALLATION SHALL MEET, AS A MINIMUM, THE NATIONAL ELECTRICAL INSTALLATION STANDARD (NEIS) AND NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION (NECA) AA/104-2000 "RECOMMENDED PRACTICE FOR INSTALLATION OF ALUMINUM BUILDING WIRE AND CABLE".
- INSTALLATION REQUIREMENTS:
 - OXIDE INHIBITOR SHALL BE USED AT ALL ALUMINUM CONDUCTOR TERMINATIONS.
 - THE INSULATION ON AN ALUMINUM CONDUCTOR SHALL BE STRIPPED USING TOOLS MANUFACTURED FOR THE CONDUCTOR TYPE AND INSULATION TYPE, OR BY A STANDARD METHOD, SUCH AS, PENCILING OR WHITTILING THE INSULATION FROM THE CONDUCTORS. HOWEVER, NEVER "RING CUT" THE INSULATION. WHEN PENCILING, CARE SHOULD BE TAKEN NOT TO DAMAGE ANY OF THE INDIVIDUAL STRANDS.
 - WIRE BRUSH THE CONDUCTOR TO REMOVE ANY INSULATION THAT MAY BECOME TRAPPED BETWEEN THE STRANDS AND APPLY A LISTED JOINT COMPOUND.
 - VERIFY THAT THE CONNECTORS ARE DUAL RATED AND LISTED BY UL FOR USE WITH ALUMINUM AND COPPER, AND SIZED TO ACCEPT ALUMINUM CONDUCTORS OF THE AMPACITY SPECIFIED. THESE TERMINATIONS SHALL BE LISTED AND LABELED, ALCU, ALTCU, OR AL9CU.
 - ALL TERMINATIONS OF ALUMINUM CONDUCTORS SHALL BE VIA COMPRESSION FITTINGS/TERMINALS FOR 8000 ALUMINUM ALLOY CONDUCTORS. THE BARE CONDUCTOR SHALL BE INSERTED IN THE CONNECTOR BARREL AND CRIMPED WITH A TOOL RECOMMENDED BY THE CONNECTOR MANUFACTURER. COMPRESSION CONNECTORS ARE GENERALLY MARKED WITH THE DIE SIZE TO BE USED. AFTER THIS PROCESS IS COMPLETED, REMOVE ANY ACCESS OXIDE INHIBITOR FROM THE CONDUCTOR.
- ALUMINUM CONDUCTOR SCHEDULE NOTES:
 - ALL CONDUCTORS SHALL BE COPPER UNLESS SPECIFICALLY NOTED AS ALUMINUM (AL) ON THE PANEL SCHEDULES OR IN THE RISER NOTED. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH N.E.C., GENERAL NOTES LISTED ON THIS SHEET, AND GOOD WORKMAN SHIP.
 - CONTRACTOR SHALL COORDINATE WITH SWITCH GEAR MANUFACTURER FOR LUG SIZE, OR QUANTITY MODIFICATIONS. IF LUG REDUCERS ARE ELECTED TO BE USED, ALL PRODUCTS AND TERMINATION MEANS SHALL BE IN STRICT COMPLIANCE WITH N.E.C. AND MANUFACTURER RECOMMENDATIONS.

N45A

GROUNDING DETAIL



NOTICE:
THE INFORMATION SHOWN IN THIS DETAIL SHALL BE CONSIDERED AS THE MINIMUM REQUIREMENTS, AND SHALL NOT BE REDUCED WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.

NOTES:

- FULL SIZE GROUND MEANS THAT GROUND CONDUCTOR SIZE SHALL BE AS SHOWN ON SERVICE EQUIPMENT ON THE POWER RISER DIAGRAM.
- AFTER GROUNDING SYSTEM IS INSTALLED, GROUND RESISTANCE SHALL BE MEASURED, TO ASSURE THAT GROUND VALUE OF 10 OHM MAXIMUM RESISTANCE IS ACHIEVED. IF NOT, ADDITIONAL GROUNDING SHALL BE PROVIDED TO MEET THE SPECIFIED VALUE.
- ALL CONNECTIONS TO GROUND RODS SHALL BE EXOTHERMIC WELD CONNECTIONS.
- GROUND CONDUCTOR SHALL BE LOCATED WITHIN OR NEAR BOTTOM OF CONCRETE FOUNDATION OR FOOTING THAT IS IN DIRECT CONTACT WITH THE EARTH, AND SHALL CONSIST OF AT LEAST 20 FEET OF ONE OR MORE STEEL REINFORCING BARS OR RODS OF NOT LESS THAN 1/2 INCH DIAMETER, OR OF AT LEAST 20 FEET OF BARE COPPER CONDUCTOR.

P14A

CHIPOTLE ESTIMATED KVA LOAD (BASED ON A SIMILAR STORE)

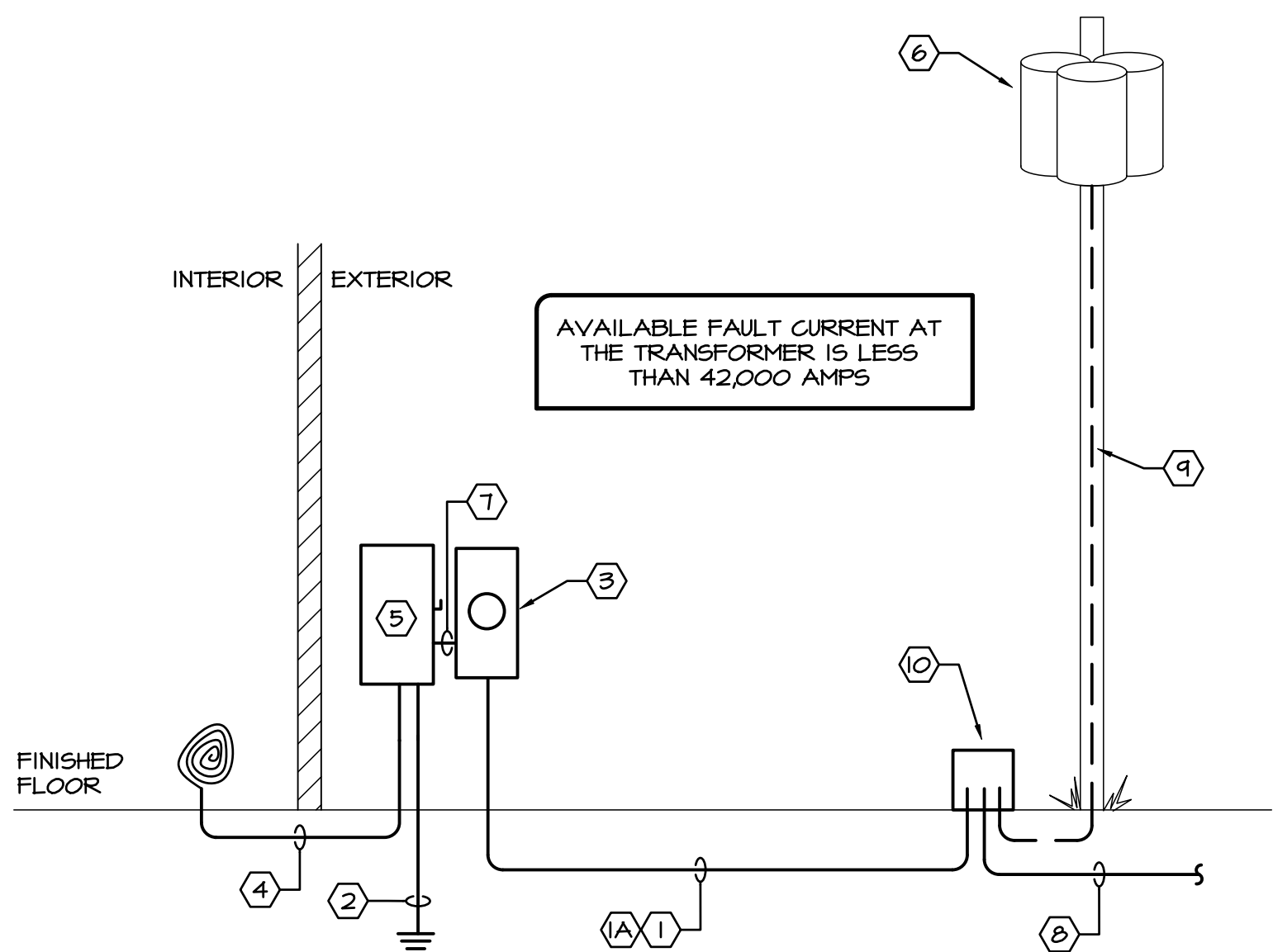
INTERIOR LTS -	3.0 KVA @ 125%	= 4.0 KVA
EXTERIOR LTS -	1.5 KVA @ 125%	= 2.0 KVA
HVAC -	60.0 KVA @ 100%	= 60.0 KVA
MISC. MOTORS -	3.0 KVA @ 100%	= 3.0 KVA
KITCHEN EQUIP. -	60.0 KVA @ 65%	= 39.0 KVA
RECEPTACLES -	8.0 KVA @ 100%	= 8.0 KVA
TOTAL		= 116.0 KVA
@ 120/208V., 3-PHASE, WYE = 322.0 AMPS.		

NOTES

- (2) SETS OF 3" CONDUITS WITH 4 - #250 MCM CU. IN EACH.
- DEDUCT ALTERNATE: CONTRACTOR SHALL PROVIDE A DEDUCT ALTERNATE TO USE ALUMINUM IN LIEU OF COPPER, AS FOLLOWS:

TWO SETS OF 3" CONDUITS WITH 4 #350 MCM AL. (XHHW) IN EACH. SEE NOTES THIS SHEET FOR ALUMINUM SPECIFICATIONS.
- #1/0 CU. GROUND. SEE GROUNDING DETAIL ON THIS SHEET.
- 400AMP, 3-PHASE SELF CONTAINED METER FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR PER UTILITY COMPANY SPECIFICATIONS. ALUMINUM CONSTRUCTION WITH CONNECTOR KITS TO ACCEPT WIRE SIZES INDICATED AS MINIMUM.
- 4 #500 MCM CU. AND 1 #1/0 GROUND IN 3-1/2" CONDUIT. STUB CONDUIT 18" A.F.F. AND PROVIDE 18'-0" OF SLACK CONDUCTORS COILED AND TAPED FOR CONNECTION TO TENANT FURNISHED PANELBOARD. COORDINATE EXACT LOCATION WITH TENANT PRIOR TO ROUGH-IN.
- 3-PH., 4-W. SERVICE ENTRANCE RATED, NEMA 3R, 400A, FUSED DISCONNECT, FUSED AT 400 AMPS, HEAVY DUTY, SWITCH WITH SOLID NEUTRAL, CLASS 'J' FUSES. DISCONNECT SHALL BE LOCKABLE IN THE ON OR OFF POSITIONS.
- 120/208V., 3-PHASE, 4-WIRE POLE MOUNTED TRANSFORMERS.
- (2) SETS OF 3" CONDUITS WITH 4 #250 MCM CU. AND 1 #1/0 LINE SIDE BONDING JUMPER IN EACH.
- SEPARATE FEED TO LIFT STATION. SEE DETAIL SHEET E11.
- SERVICE CONDUCTORS DOWN THE POLE TO HAND HOLE. COORDINATE WITH UTILITY COMPANY FOR RESPONSIBILITY AND PROVIDE ACCORDINGLY.
- HAND HOLE FOR TIE-IN OF SECONDARY CONDUCTORS. COORDINATE WITH THE UTILITY COMPANY FOR RESPONSIBILITY AND PROVIDE ACCORDINGLY.

N4A



POWER RISER DIAGRAM

NO SCALE

NOTICE

CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ARC FLASH LABELS AS REQUIRED BY NFPA 70E (NEC) 110.16, AND PERSONAL PROTECTIVE EQUIPMENT (PPE) RATING PLACARDS PER NFPA 70E FOR ALL SWITCHGEAR.

N41A

CHEYAYEB & ASSOCIATES, INC.

CONSULTING PROFESSIONAL ENGINEERS

3702 AZEELE ST.
TAMPA, FL 33609

(813) 876-1415
www.chedayeb.com

LIC. #49521 SOUHEIL S. CHEYAYEB CERT. #7340
24-12



3336 Grand Blvd. Suite 201
Holiday, Florida 34690
Ph. 727. 815. 3336
FABER@FWHARCHITECTS.COM



151 SAWGRASS CORNERS DR. SUITE 202
PONTE VEDRA BEACH, FLORIDA 32082
PHONE (904) 285-7600 FAX (904) 286-8443

TO THE BEST OF THE KNOWLEDGE OF THE ARCHITECTS AND ENGINEERS, PLANS AND SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES AND THE APPLICABLE MINIMUM FIRE SAFETY STANDARDS

SOUHEIL CHEYAYEB, P.E.
FL License No. 45521

CHIPOTLE MEXICAN GRILL
BUILDING SHELL
1491 EMERSON DR. NE,
PALM BAY, FLORIDA 32907

03.08.24
date

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POWER RISER
DIAGRAM

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