





- F. Joint Reinforcement, Wall Ties And Anchors: Finish, ASTM A-153 hot-dip galvanized
- Manufacturer: Holman & Bernard, INC.
  - Horizontal joint reinforcement: Welded ladder type with matching corners and Tee units.
    - Single Wythe masonry: Standard single 9 gage side and cross rods. H&B - #220 Ladder-Mesh.
  - Anchoring devices: Provide strap anchors, inserts, bolts and rods of type and size indicated.
    - CMU to CMU: Strap anchors 1/4" x 1-1/4" x 24" steel with bent ends.
    - CMU to structural steel: H&B - VBT - Vee Bye-Tie With Plain Steel (Tie) Used in Conjunction With H&B #359 Weld-on Ties (Anchor Rods).
  - Masonry Veneer To Wood Framing: H&B - DW-10HS Veneer Anchor, With Adjustable 3/16" Cold-Drawn Steel Wire Tie Sections and 14 GA. Screw-On Attachment Plate.
    - Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners for each Attachment Plate.
  - Seismic Masonry Veneer to Wood Framing: (When Required) H&B Seismic Plate Pintle HB-2135 with HB-213 (T-Lok Tie)
    - Fasteners: Self-Drilling, Self-Tapping Screws, 1-1/4" X #10, Corrosion-Resistant Coated. Provide Two (2) Screw Fasteners For Each Attachment Plate.

- G. Concealed Masonry Through-Wall Flashing: W. R. Grace "Perm-A-Barrier" self-adhering modified bituminous sheet, 40 mils thick.
- Termination Mastic: W.R. Grace "Bituthene Mastic."
  - Primer: W. R. Grace "Bituthene P-300 Primer."
  - Termination bars: Extruded aluminum or stainless steel, 1" wide and .098" thick pre-punched at 6" on center, secured with stainless steel drive pins.

- H. Accessories
- Reinforcing bars: ASTM A615, Grade 60, deformed billet steel bars of sizes indicated.
  - Wall weeps: Dur-O-Wal/DJA 1006 "Cell Vent", clear flexible polypropylene co-polymer.
  - Compressible joint material: Dur-O-Wal "Rapid Soft-Joint" DJA 2010.
  - Bond breaker strips: ASTM D226 No. 15 asphalt saturated roofing felt.
  - Cleaning agents:
    - Face Brick and CMU: ProSoCo, Inc., "Sure Clean New Masonry Cleaners."
    - ACMU: ProSoCo, Inc., "Sure Clean Burnished Custom Masonry Cleaner."
  - Expansion/Control joint sealants: Polyurethane-based, elastomeric joint sealant complying with ASTM C920 and Section 07900 requirements. Color matched to adjacent surfaces.

**1 Installation**

- A. Preparation
- Wet absorbent face brick masonry units requiring wetting, in accordance with BIA recommendations.
  - Lay concrete masonry units dry.
  - Establish lines, levels and coursing. Ensure ties, anchors and flashing are correctly installed.
  - Mix mortar cementitious materials and aggregate in a mechanical mixer. Add water in amount to provide satisfactory workable consistency of mortar. Retemper mortar as required within two hours of mixing to replace water lost by evaporation. Discard mortar after two and one-half hours of initial mixing. Do not use mortar after it has started to set.
- B. Installation - General:
- Build walls and other masonry construction to the full thickness shown. Build single wythe walls to the actual thickness of the masonry units, using units of nominal thickness shown.
  - Cut masonry units using motor-driven masonry saws to provide clean, sharp edges. Cut units to fit adjoining work neatly. Provide 100% solid units where cores would be exposed.
  - Cold weather construction, hot weather construction, and masonry construction tolerances: Comply with unit masonry standard ACI 530.1/ASCE 6/TMS 602 requirements.
- C. Laying Masonry
- Layout walls in advance to ensure accurate spacing of surface bond patterns, with uniform joint widths, and to properly locate openings, movement type joints, returns and offsets. Do not use less than half-size units at corners, jambs and other locations.
  - Lay up walls plumb and true to comply with ACI 530.1 tolerances. Provide square corners and angles, except as otherwise indicated, with courses level, accurately spaced and coordinated with other work.
  - Pattern bond: Running bond. Do not use units with less than 4" of horizontal face dimensions at corners or jambs.
  - Lay hollow CMU/ACMU with full mortar coverage on horizontal and vertical face shells. Bed CMU webs in mortar in starting courses. Maintain uniform 3/8" joint widths.
  - Lay face brick and solid CMU/ACMU with completely filled bed and head joints. Do not slush head joints. Maintain uniform 3/8" joint widths.
  - Compress and cut joints flush for masonry walls below grade or covered by other materials.
  - Tool joints in all exposed masonry work to a concave joint.
  - Provide interlocking masonry bond in each course at corners and intersecting walls.
  - As the work progresses, build in masonry accessories and related items. Fill in solidly with masonry around built-in items.
    - Bed hollow metal frame anchors in mortar and fill space between hollow metal frames and masonry solid with fine mortar grout.
    - Provide solid masonry bearing for all lintels, beams, joists, plates and load-bearing members.
  - Take particular care to embed all conduits and pipes within concrete masonry without fracturing exposed shells and to fit units around switch, receptacle and other boxes set in walls. Where electric conduit, outlets, switch boxes and similar items occur, grind and cut units before building in services.
  - Install anchors, plates and related work built into masonry work.
    - Install reinforcing steel and concrete fill where indicated. Comply with drawing details.
  - Horizontal joint reinforcing: Provide continuous joint reinforcing at all concrete masonry walls as follows:
    - In every second block course, 16" on center vertically, full height of wall and every block course where shown on the drawings.
    - Lap reinforcement a full width at the corners and at intersections or use special fabricated sections.
    - Fully embed side rods in mortar.
  - Anchoring masonry work: Provide anchoring devices of the type indicated or required.
  - Provide vertical expansion, control and isolation joints in masonry where indicated.
    - When not indicated, at maximum 30' 0" on center.
    - Locate control joints at points of natural weakness in masonry and acceptable to Architect.
    - Joint sealant color shall match masonry materials sealed.
  - Lintels: Install loose steel lintels furnished under structural steel work where shown. Set lintels in full bed of mortar.
  - Flashing and weeps:
    - Install concealed through wall masonry flashing at all wall sills, masonry openings in exterior walls with masonry above head, over all horizontal steel members built into masonry and elsewhere as indicated. Provide "drainage wall system" masonry construction.
    - Provide end dams and positive slope to drain. Extend flashing vertically at least 8" and built into or anchor to back-up with a termination bar for a complete watertight installation.
    - Flexible Membrane Flashing:
      - Install membrane flashing in accordance with manufacturer's installation instructions.
      - Fully adhere flashing to substrate.
      - Lap flashing joints a minimum of 6", seal and roll with a hand roller.
      - Trim bottom edge 1/4" back from exposed face of masonry.
      - Seal edges, seams, cuts and penetrations with manufacturer's recommended mastic.
  - Install weeps in head joints of final course of exterior masonry wythe above flashing. Space weeps maximum of 24" on center horizontally and located to avoid door openings. Install weeps at head joints with outside face of weep material held 1/8" from the finish face of masonry unit.
  - Install compressible joint material at lintels and horizontal steel members. Build in joint fillers and seal with elastomeric joint sealant.

- D. Masonry Veneer Walls:
- Metal framed walls: Tie exterior masonry veneer wythe to back-up wall with individual metal ties screwed to metal stud framing.
  - Space ties 16" on center vertically and horizontally.
  - Maintain veneer wall cavity free of mortar droppings during masonry installation.

- E. Parging:
- Dampen masonry walls prior to parging.
  - Scarify each parging coat to ensure full bond to subsequent coat.
  - Parge masonry walls in two uniform coats of mortar to a total thickness of 3/4 inch (19mm).
  - Steel trowel surface smooth abs flat with a maximum surface variation of 1/8 inch per foot (1mm/meter).

- F. Architectural Concrete Masonry Units: Install ACMU in accordance with the manufacturer's installation instructions and the following:
- Draw ACMU from more than one pallet at a time during installation.

- G. Reinforced Concrete Masonry
- Reinforce and fill CMU/ACMU wall and column masonry where indicated. Fill all cores solid with concrete fill. Comply with NCMA TEK Bulletins 3-2, 3-3A and 14-2 recommendations.
    - Comply with drawing details for reinforcing steel size and spacing.
  - Install bond beams where indicated. Reinforce and fill units solid with concrete fill. Comply with drawing details for reinforcing steel size and spacing.

- H. Repair, Pointing and Cleaning
- In process cleaning: Wipe off excess mortar as the work progresses. Dry brush with bristle brushes exposed masonry at the end of each day's work. Remove mortar spatters and joint ridges.
  - Clean all exposed masonry. Cleaning agents subject to Architect's approval. Before applying any cleaning agent to the entire wall, clean a sample wall area of approximately 20 square feet in a location acceptable to the Architect. Do not proceed with final cleaning until the sample area has been allowed to dry a minimum of 3 days and the test area cleaning approved. Protect all windows, doors, louvers, metal lintels and other corrodible parts. Damaged materials and work replaced at Contractor's expense.
  - Dry clean exposed surfaces to remove large particles of mortar using hardwood wood paddles and scrapers. Metal tools not acceptable.
  - Presoak exposed masonry surfaces by saturating with water and flush off loose mortar and dirt.
  - Apply cleaning solutions and clean masonry in accordance with the cleaning material manufacturer's cleaning instructions.
  - Muriatic acid cleaning of masonry not permitted.

- I. Architectural Concrete Masonry:
- Keep ACMU walls clean during installation. Remove excess mortar on daily basis using brushes, rags or burlap squares.
  - Clean completed walls with detergent masonry cleaner recommended by the ACMU manufacturer. Acid cleaning agents, abrasive cleaners, tools or powders and metal cleaning tools and brushes are not permitted.
  - After final clean down and when walls are dry, apply ACMU acrylic finish coating in accordance with ACMU manufacturer's application instructions.

**DIVISION 5 - METALS**

**SECTION 05120 - STRUCTURAL STEEL**

- 1.1 General: Provide structural steel in accordance with the General Structural Notes and structural drawings and details.
- A. Standards: Materials and construction shall conform to following:
- AISC "Specification for the Design, Fabrication, and Erection of Structural Steel for Buildings."
  - AISC "Code of Standard Practice."
  - AWS "Structural Welding Code, D1.1-Steel."

- 2.1 Materials:
- A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.
- B. Structural Shapes: ASTM A36/A36M, 36 ksi steel.
- C. Tubular Steel: ASTM A500, 46 ksi yield strength steel, cold-formed welded and seamless.
- D. Structural pipe: ASTM A53, type and grade selected by the fabricator as required for design loading, standard finish, standard weight (Schedule 40) except as otherwise indicated.
- E. Grout: ASTM C1107, pre-mixed, shrinkage resistant, non-metallic, non-corrosive, non-staining grout.
- F. Shop paint primer: Refer to Section 09900 - Paints and Coatings.

- G. Fabrication: Fabricate structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice." Provide welded or bolted connections in accordance with the Structural Drawings connection requirements.
- Welding: Conform to AWS welding standards. Provide only continuous welds, spot welding is not acceptable. Grind all exposed welds smooth.
  - Splicing: Material, if spliced, shall have maximum one splice per structural member. Perform acceptable by full penetration butt-welding using AWS qualified welders and welding methods.
  - Shop painting: Shop paint structural metal members, except members or portions of members to be embedded in concrete or masonry, surfaces and edges to be field welded and galvanized surfaces. Refer to Section 09900 - Paints and Coatings.

- 3.1 Installation:
- A. Erection: Erect structural steel in accordance with AISC "Specification - Structural Steel for Buildings" and "Code of Standard Practice".
- Plumb, level and align base plates for structural members with steel shims.
  - Grout structural steel base plates solid that bear on concrete or masonry surfaces.
- B. Testing: When required, comply with drawings testing requirements.

**SECTION 05400 - COLD-FORMED METAL FRAMING**

- 1.1 General: Provide cold-formed metal framing in accordance with the General Structural Notes and structural drawings and details.
- A. Standards: Materials and construction shall conform to following:
- AISI S602.2-01 "Design of Cold-Formed Steel Structural Members."
  - AWS "Structural Welding Codes, D1.3 Sheet Steel."

- 2.1 Materials:
- A. Materials compliance: When requested, submit acceptable data documenting materials compliance for each type of material required.
- B. Load-Bearing Cold-Formed Metal Framing: ASTM A1003, Gage, Grade and Type indicated.
- Components: Provide sizes and shapes indicated.
  - Finish: Galvanized complying with ASTM A653, minimum G60 coating.
- C. Fabrication:
- Cold-formed metal framing may be prefabricated into panels before erection. Fabricate panels plumb, square, true to line and braced against racking with joints welded.
    - Provide one-piece full-length cold-formed metal framing members. Splicing not permitted.
    - Attach and join other components by welding or screw fasteners, as indicated. Wire tying of framing components is not permitted.
  - Cut framing to fit squarely for attachment to perpendicular members or as required for angular fit against abutting members. Hold members securely in position until properly fastened.
  - Saw cut field cut framing. Torch cutting not acceptable.
- 3.1 Installation:
- A. Erection: Erect cold-formed metal framing members of gage and at spacing indicated on the Structural Drawings. Align and secure studs to top and bottom runner tracks by welding or screw fasteners at both inside and outside flanges.
- B. Tolerance Acceptance: Install cold-formed metal framing member as indicated on the plans. Install to 1/16" tolerance.

**SECTION 05500 - METAL FABRICATIONS**

- 1.1 General: Provide metal fabrications as shown and specified.
- A. Submit shop drawings for the following:
- Patio Rail systems.
    - Show thickness, size, construction and manner of assembling various members, joint locations and railing layout.
    - Show true profiles, connections and relationship to adjoining work and methods of anchoring.

- 2.1 Materials:
- A. Materials compliance: When requested, submit acceptable data documenting materials compliance.
- B. Steel Shapes: ASTM A36/A36M, 36 ksi steel.
- C. Stainless Steel:
- Wall: 18 gage, ASTM A167, AISI Type 304 stainless steel, No. 4 finish.
- D. Diamond Plate: Nominal 1/8" thick ASTM B209, Alloy 6061-T6, Aluminum Diamond Tread Plate.
- Wall: Bright reflective finish.
  - Floor: Mill finish.

- E. Patio Railing System
- Submit shop drawings including the following:
    - Show thickness, size, construction and welding, as well as assembly drawings.
    - Show true profiles, connections of all typical joint configurations.
    - Show installation (fastening) and proposed grout (non-gypsum base)
    - Show gage detail and gate hardware manufacturer and model number
  - Patio railing panel, with dimensions and panel assembly locations.
  - Fabrication
    - Patio rails and gate shall be fabricated from steel flat bar, 3/8" x 2 1/2", grade A36.
    - Corner connector angles shall be 2 1/2" x 2 1/2" x 1/4" steel L angle.
    - Gate hinges shall be a self-closing, adjustable tension type. Hinge installation shall be drilled and tapped. Permanently welded are unacceptable.
    - Gate stop shall have a rubber cushion stop and be affixed to the active gate.
    - All corners and joints shall be seal welded and outside joints ground smooth.
    - All welding spatter shall be removed before sand blasting.
  - Finish
    - Patio railing shall be painted PPS Durethane, color 518-6 Knight's Armor. Refer to Section 09900 - Paints and Coatings for preparation.
  - Exposed Fasteners:
    - Diamond Plate: #8 x 1" bevel headed stainless steel screw.
    - Patio Railing:
      - All fasteners shall be stainless steel and powder coated to match railing sections.
      - Spacer washers separating railing sections shall be 1 1/2" diameter and 1/2" thick they shall be one piece thick washers and not comprised of stacking washers
      - Spacer washers shall be used on all straight sections and when railing panels join at 90 degree corner angles.

- G. Shop paint primer: Refer to Section 09900 - Paints and Coatings
- 3.1 Installation: Comply with the Architectural Drawing details and the following:

- A. Exposed Fasteners:
- Flat Metal Panels: Provide 18" vertical and horizontal pattern or spaced equally if 18" pattern does not finish evenly. Exposed fasteners shall remain unpainted in natural factory supplied finish.
  - Diamond Plate: Provide counter sunk fasteners at perimeter of panels at 2'-0" on center maximum as well as fully adhering to surface.
- B. Stainless Steel:
- Wall:
    - Clean stainless steel panel with mineral spirits.
    - Install stainless steel panels with Henry 117 oil based adhesive applied to wall with 1/8" notch tooth trowel.
    - Trim seams as indicated on the Drawings. No exposed fasteners.
- C. Diamond Plate:
- Wall: Mount over plywood substrate w/ flush exposed fasteners.
  - Floor: Provide continuous bead of silicone sealant to back side perimeter of plate prior to installation.
  - Mount with exposed fasteners. Provide continuous bead of silicone sealant to perimeter of plate after installation.
- D. Patio Railing System:
- Railing posts shall be set 6" deep into a core drilled hole, 4"-6" diameter
  - Railing posts shall be grouted in using non gypsum quick set grout.
  - Railing posts shall be set in grout plumb and level, with a tolerance of 1/8" in 4 feet.
- E. Hand-inspect all joints and edges of installed metal materials. Unless otherwise indicated, fit exposed connections accurately together to form tight hairline joints. Grind and ease exposed joints, and edges smooth and free of burrs.

**DIVISION 6 - WOOD AND PLASTICS**

**SECTION 06100 - ROUGH CARPENTRY**

- 1.1 General: Provide rough carpentry work as shown and specified.
- A. Standards: Materials and construction shall conform to following:
- NIST PS-1-95 "Construction and Industrial Plywood."
  - NIST PS-2-95 "Performance Standards for Wood-Based Structural-Use Panels."
  - NIST PS-20-99 "American Softwood Lumber Standard."
  - NF&PA NDS-97 "Wood Construction and Supplement."
  - AWPA "Wood Treatment Standards."

- 2.1 Materials:
- A. Lumber: Factory grade-marked, dressed, seasoned dimension lumber, S4S, air-dried, maximum 19% moisture content complying with PS-20, dimensions indicated.
- Blocking, nailers and similar members: Standard Grade Western Dimension Lumber or Southern Pine species.
    - Provide preservative treated lumber, where indicated.
- B. Plywood: Factory grade-marked, complying with PS-1, square edge, 5/8" thick.
- APA-RATED SHEATHING EXP1
    - Provide Exterior Grade (EXT) plywood, where indicated.
    - Provide fire-retardant treated plywood, where required by Building Code.
- C. Oriented Strand Board (OSB): Factory grade-marked, complying with PS-2, square edge, 5/8" thick

- 2.2 Wood Treatment:
- A. Preservative Treatment: Comply with applicable requirements of AWPA Standards C2 (Lumber).
- Pressure preservative treat lumber with water-borne preservatives, acceptable to authorities having jurisdiction, to a minimum retention of 0.25 pcf.
  - Treat wood blocking, nailers and similar members in connection with roofing and flashing.
  - Treat wood plates, blocking, furring and similar concealed members in contact with masonry or concrete.
- B. Fire-Retardant Treatment: Comply with applicable requirements of AWPA Standards C27 (Plywood). Identify "fire-retardant-treated plywood" with appropriate UL classification marking.
- Treated materials shall meet "Interior Type A" FR-S ratings of not more than 25 for flame spread, smoke developed and fuel contributed when tested in accordance with UL 723 or ASTM E84, with no increase in flame spread and evidence of significant progressive combustion upon continuation of test for additional 30 minutes.
- C. Kiln-dry all treated lumber and plywood materials after treatment to maximum 15% moisture content.

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

**SECTION 07210 - BUILDING INSULATION**

- 1.1 General: Provide building insulation as shown and specified.
- 2.1 Materials:
- A. Extruded polystyrene foam rigid board insulation: Dow Chemical Co., 866-583-2583, internet www.dowbuildingmaterials.com
- Type: Dow "Styrofoam" Type IV, 1.6 pcf minimum density, 25 psi compressive strength complying with ASTM C578, R-value equal 5 per inch of thickness. Provide lengths and widths as required to coordinate with space insulated.
  - Perimeter foundation walls: Styrofoam SE, R-value indicated.
- B. Glass fiber batt/blanket insulation: Owens Corning Corp., (800) 438-7465, internet www.owenscorning.com.
- Type: Owens Corning "Thermal Batt" Type I unfaced glass fibers and binders formed into flexible blankets or batts complying with ASTM C665, Provide lengths and widths required to coordinate with spaces insulated.
  - Exterior walls: Unfaced, R-value/thickness indicated

- C. Vapor barrier membrane: Polyethylene, minimum 6 mils thick, complying with ASTM D 4397, maximum permeance rating of 0.13 perms.
- Joint tape: Pressure sensitive tape designed for sealing joints and penetrations of above and below grade vapor barrier sheets.
  - Mounting tape: Double-faced pressure sensitive tape suitable for mounting vapor barriers to steel framing.

- 3.1 Installation:
- A. General:
- Install insulation in accordance with manufacturer's recommendations for conditions of installation indicated. Install insulation in single layer of required thickness over entire area to be insulated. Cut and fit tightly around obstructions. Fill all voids.
  - Install exterior wall insulation continuous behind electrical boxes, conduit, piping and ductwork.

- B. Foundation perimeter walls and slabs:
- Install rigid foam insulation vertically from top of slab to frost line or horizontally under slabs, extending a minimum 36" in from exterior walls.
  - Protect insulation from displacement and damage during backfilling and slab placement

- C. Exterior Walls:
- Install batt/blanket insulation full height at exterior wall framing. Use blanket widths and lengths that fill cavities formed by framing members and provide a friction fit between edges of insulation and metal framing members.
  - Provide galvanized wire mesh or metal strapping to provide supplementary support when required to maintain insulation in permanent proper location.

- D. Vapor Barriers:
- Install a single layer of vapor barrier membrane over the interior of exterior metal wall framing after installation of insulation. Secure with double faced tape at wall framing.
  - Provide single unspliced material height. Horizontal joints not acceptable. Minimize vertical joints. Lap vertical joints and secure in place with joints taped. Provide tape sealed contact with door frames, window frames, piping, conduit, ductwork, registers and the vapor barrier.
  - Seal all cuts and penetrations of vapor barrier membrane with tape before installing surface finishes.

**SECTION 07250 - WEATHER BARRIERS**

- 1.1 Section Includes
- A. Weather barrier membrane
- B. Seam Tape
- C. Flashing
- D. Fasteners

- 1.2 References
- A. ASTM International
- ASTM C920; Standard Specification for Elastomeric Joint Sealants
  - ASTM C1193; Standard Guide for Use of Joint Sealants
  - ASTM D882; Test Method for Tensile Properties of Thin Plastic Sheeting
  - ASTM D1117; Standard Guide for Evaluating Non-woven Fabrics
  - ASTM E84; Test Method for Surface Burning Characteristics of Building Materials
  - ASTM E96; Test Method for Water Vapor Transmission of Materials
  - ASTM E1677; Specification for Air Retarder Material or System for Framed Building Walls.
  - ASTM E2178; Test Method for Air Permeance of Building Materials

- B. AATCC - American Association of Textile Chemists and Colorists
- Test Method 127 Water Resistance: Hydrostatic Pressure Test
- C. TAPPI
- Test Method T-410; Grams or Paper and Paperboard (Weight per Unit Area)
  - Test Method T-460; Air Resistance (Gurley Hill Method)

- 1.3 Quality Assurance
- A. Qualifications
- Installer shall have experience with installation of commercial weather barrier assemblies under similar conditions.
  - Installation shall be in accordance with weather barrier manufacturer's installation guidelines and recommendations.
  - Source Limitations: Provide commercial weather barrier and accessory materials produced by single manufacturer.

- 1.4 Delivery, Storage and Handling
- A. Refer to Section 01400 Quality Requirements.
- B. Deliver weather barrier materials and components in manufacturer's original, unopened, undamaged containers with identification labels intact.
- C. Store weather barrier materials as recommended by weather barrier manufacturer.

- 1.5 Scheduling
- A. Review requirements for sequencing of installation of weather barrier assembly with installation of windows, doors, louvers and flashings to provide a weather-tight barrier assembly.
- B. Schedule installation of weather barrier materials and exterior cladding within nine months of weather barrier assembly installation.

- 2.1 Manufacturer
- A. DuPont Building Innovations; 4417 Lancaster Pike, Chestnut Run Plaza 721, Wilmington, D19805; 1.800.44TYVEK (8-9835); http://constructiontyvek.com

- 2.2 Materials
- A. Basis of Design: Hi-performance, spunbonded polyolefin, non-woven, non perforated, weather barrier is based upon DuPont Tyvek CommercialWrap and related assembly components.
- B. Performance Characteristics:
- Air Penetration: 0.001 CFM/feet squared at 75 Pa, when tested in accordance with ASTM E2178, Type I per ASTM E1677.
  - Water Vapor Transmission: 28 perms, when tested in accordance with ASTM E96 Method B.
  - Water Penetration Resistance: 280 cm when tested in accordance with AATCC Test Method 127.
  - Basis Weight: 2.7 oz/yd squared, when tested in accordance with TAPPI Test Method T-410.
  - Air Resistance: Air infiltration at >1500 seconds, when tested in accordance with TAPPI Test Method T-460.
  - Tensile Strength: 38/35 lbs/inch, when tested in accordance with ASTM D882, Method A.
  - Tear Resistance: 12/10 lbs., when tested in accordance with ASTM D1117.
  - Surface Burning Characteristics: Class A, when tested in accordance with ASTM E 84. Flame Spread: 10, Smoke Developed: 10.

- 2.3 Accessories
- A. Seam Tape: 3 inch wide, DuPont Tyvek Tape for commercial applications.

- B. Fasteners:
- For steel frame construction - DuPont Tyvek Wrap Cap Screws, as manufactured by DuPont Building Innovations: 1-5/8" rust resistant screw with 2-inch diameter plastic cap or manufacturer approved 1-1/4" or 2" metal gasketed washer.
  - For wood frame construction - Tyvek Wrap Caps, as manufactured by DuPont Building Innovations: #4 nails with large 1-inch plastic cap fasteners.
  - For masonry construction - masonry tap-con fasteners with Tyvek Wrap Caps as manufactured by DuPont Building Innovations: 2 inch diameter plastic cap fasteners.
- C. Adhesives:
- Provide adhesive recommended by weather barrier manufacturer.
  - Products:
    - Liquid Nails LN-109
    - Polyglaze SM 5700
    - Denso Butyl Liquid
    - 3M High Strength 90
    - SIA 665
    - Adhesives recommended by the weather barrier manufacturer.



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ARCHITECTURAL  
SPECIFICATIONS

G011

- D. Primers:
1. Provide flashing manufacturer recommended primer to assist in adhesion between substrate and flashing.
  2. Product:
    - a. 3M High Strength 90
    - b. Denso Butyl Spray
    - c. SIA 655
    - d. Permagrip 105
    - e. ITW TACC Sial Put SPH
    - f. Primers recommended by the flashing manufacturer.

- E. Flashing:
1. DuPont FlexWrap, as manufactured by DuPont Building Innovations: flexible membrane flashing materials for window openings and penetrations.
  2. DuPont Straightflash, as manufactured by DuPont Building Innovations: straight flashing membrane materials for flashing windows and doors and sealing penetrations such as masonry ties, etc.
  3. DuPont Straightflash VF, as manufactured by DuPont Building Innovations: dual-sided straight flashing membrane materials for brick mold and non-flanged windows and doors.

- 3.1 Examination
- A. Verify substrate and surface conditions are in accordance with weather barrier manufacturer recommended tolerances prior to installation of weather barrier and accessories.

- 3.2 Installation - Weather Barrier
- A. Install weather barrier per regional requirements in accordance with manufacturer recommendations.
  - B. Install weather barrier prior to installation of windows and doors.
  - C. Start weather barrier installation at a building corner, leaving 6-12 inches of weather barrier extended beyond corner to overlap.
  - D. Install weather barrier in a horizontal manner starting at the lower portion of the wall surface with subsequent layers installed in a shingling manner to overlap lower layers. Maintain weather barrier plumb and level.
  - E. Sill Plate Interface: Extend lower edge of weather barrier over sill plate interface 3-6 inches. Secure to foundation with elastomeric sealant as recommended by weather barrier manufacturer.
  - F. Window and Door Openings: Extend weather barrier completely over openings.
  - G. Overlap weather barrier
    1. Exterior corners: minimum 12 inches.
    2. Seams: minimum 6 inches.
  - H. Weather barrier Attachment:
    1. For steel or wood frame construction - Attach weather barrier to studs through exterior sheathing. Secure using weather barrier manufacturer recommended fasteners, space 12-18 inches vertically on center along stud line, and 24 inch on center, maximum horizontally.
    2. For masonry construction - Attach weather barrier to masonry. Secure using weather barrier manufacturer recommended fasteners, spaced 12-18 inches vertically on center and 24 inches maximum horizontally. Weather barrier may be temporarily attached to masonry using recommended adhesive, placed in vertical strips spaced 24 inches on center, when coordinated on the project site.
  - I. Apply 4 inch by 7 inch piece of DuPont StraightFlash to weather barrier membrane prior to the installation cladding anchors.

- 3.3 Seaming
- A. Seal seams of weather barrier with seam tape at all vertical and horizontal overlapping seams.
  - B. Seal any tears or cuts as recommended by weather barrier manufacturer.

- 3.4 Opening Preparation (for use with non-flanged windows - all cladding types)
- A. Flush cut weather barrier at edge of sheathing around full perimeter of opening.
  - B. Cut a head flap at 45-degree angle in the weather barrier at window head to expose 8 inches of sheathing. Temporarily secure weather barrier flap away from sheathing with tape.

- 3.5 Flashing (for use with non-flanged windows - all cladding types)
- A. Cut 9-inch wide DuPont FlexWrap a minimum of 12 inches longer than width of sill rough opening. Apply primer as required by manufacturer.
  - B. Cover horizontal sill by aligning DuPont FlexWrap edge within side edge of sill. Adhere to rough opening across sill and up jambs a minimum of 6 inches. Secure flashing tightly into corners by working in along the sill before adhering up the jambs.
  - C. Fan DuPont FlexWrap at bottom corners onto face of wall. Firmly press into place. Mechanically fasten fanned edges.
  - D. Apply 9-inch wide strips of DuPont StraightFlash at jambs. Align flashing with interior edge of jamb framing. Start DuPont StraightFlash at head of opening and lap sill flashing down to the sill. Spray-apply primer to top 6 inches of jambs and exposed sheathing.
  - E. Install DuPont FlexWrap at opening head using same installation procedures used at sill. Overlap jamb flashing a minimum of 2 inches.
  - F. Coordinate flashing with window installation.
  - G. On exterior, install backer-rod in joint between window frame and flashed rough framing. Apply sealant at jambs and head, leaving sill unsealed. Apply sealants in accordance with sealant manufacturer's instructions and ASTM C 1193.
  - H. Position weather barrier head flap across head flashing. Adhere using 4-inch wide DuPont StraightFlash over the 45-degree seams.
  - I. Tape top of window in accordance with manufacturer recommendations.
  - J. On interior, install backer rod in joint between frame of window and flashed rough framing. Apply sealant around entire window to create air seal. Apply sealant in accordance with sealant manufacturer's instructions and ASTM C 1193.

- 3.6 Protection
- A. Protect installed weather barrier from damage.

**SECTION 07540 - THERMOPLASTIC MEMBRANE (PVC) ROOFING**

- 1.1 General: Provide the thermoplastic membrane (PVC) roofing system as shown and specified.
- A. Standards: Materials and construction shall conform to following:
    1. ASTM D5036 "Application of Adhered Poly(Vinyl Chloride) Sheet Roofing."
    2. FM 1-29 Loss Prevention Data Adhered or Mechanically Attached Single Ply Membrane Roof Systems."
    3. NRCA "Single-Ply Roofing Membrane."
    4. UL "790 - Tests for Fire Resistance of Roof Covering Materials."
  - B. Installer Qualifications: An experienced roofing installer approved by roofing system manufacturer and with not less than five years of successful experience installing membrane roofing systems similar to those required for this project.
  - C. Deliver, store and handle roof system materials in accordance with manufacturer's recommendations to avoid damage and deterioration.
    1. Comply with manufacturer's recommendations for handling and protection during installation.
  - D. Install roofing work only when weather conditions are in compliance with manufacturer's specific environmental requirements and conditions will permit work to be performed in accordance with manufacturer's recommendations and warranty requirements.
    1. Protect adjacent materials and surfaces from damage and soiling during roofing system installation.
    2. Provide special protection on completed roofing work.
    3. Protect paving and structure walls adjacent to hoists before starting work.
    4. Do not overload the building structure with storage of materials or installation equipment on the substrate decking.
  - E. Warranty
    1. Contractor and roof system installer shall jointly warrant roofing materials and installation for a period of two years from the date of Substantial Completion. Warranty shall include roofing membrane, flashing, roof insulation, roofing accessories and sheet metal work provided under Section 07600.
    2. Manufacturer's warranty: Submit executed copy of roofing system manufacturer's 15 year total system warranty, including labor and materials for the entire roof system. Including perimeter edge metal, Section 07600 Flashing & Sheet Metal

- 2.1 Materials
- A. Manufacturer: Duro-Last Roofing, Inc. (614) 370-5569, Mike Suman, www.duro-last.com
  - B. Thermoplastic single ply membrane roofing system: DL Membrane (PVC) fully adhered, smooth surface, UL Class A fire-rated single ply membrane roofing system.
    1. Thermoplastic membrane: DL Membrane, thermoplastic fiber reinforced PVC membrane, not less than 40 mils (.040), complying with ASTM D4434 and membrane manufacturer's published physical properties.
  - C. The roof covering design must resist a wind load of 100 mph, Exposure C and shall resist impact damage based on results of tests based on the results of tests conducted in accordance with ASTM D 3746, ASTM D 4272, CG58 37-CP-52M or FM 4470.
    1. Insulation cover board: Georgia-Pacific Corp. (800) 284-5347, internet www.gp.com, "Dens-Deck" nonstructural fiberglass-faced, silicone-treated gypsum core panels, 1/2" thickness.
    2. Roof insulation: Rigid closed cell polyisocyanurate boards approved by the membrane manufacturer; complying with ASTM C1289, Type II, minimum 20 psi compressive strength, aged R-value equal 5.6 per inch of thickness.
      - a. Provide a double layer installation. Minimum total R-value as indicated on plans.
      - b. Specified perimeter edge metal shall be compliant with International Building Code ANSI / SPRI ES-1, ER2 testing requirements.
    3. Flashing: Roof system manufacturer's standard sheet flashing of same material, type, and color as sheet membrane. Specified perimeter edge metal will be compliant with International Building Code ANSI / SPRI ES-1, RE2 testing requirements.
    4. Membrane Bonding Adhesive: Roof system manufacturer's standard membrane bonding adhesive.
    5. Insulation and Cover Board Adhesive: Dow Chemical Company, (888) 858-1183, internet www.flexibproducts.com, "INSTA-STIK Professional Roof Insulation Adhesive", a single component, moisture cured polyurethane adhesive.
    6. Fasteners: Roof system manufacturer's standard fasteners for project conditions indicated.
    7. Accessories: Roof system manufacturer's recommended pourable sealers, preformed penetration flashing, preformed corner flashing, seam caulk, termination bars and other accessories required for substrate surfaces and installation conditions indicated.
    8. Traffic walkways: Duro-Last Roof Track II walkway pads.3.1 Installation

- 3.1 Installation
- A. Preparation:
    1. Clean substrate surfaces of debris and other substances detrimental to roofing installation.
    2. Correct unsatisfactory conditions before starting roofing. Roof deck surface conditions shall comply with manufacturer's requirements and be acceptable to the roofing system installer.
  - B. Installation:
    1. General: Provide roofing system materials and installation complying with roofing system manufacturer's instructions and governing codes and regulations.
      - a. Mix and apply roof insulation and cover board adhesive in strict accordance with the adhesive manufacturer's installation instructions. Dispense adhesive at manufacturer's recommended application rate using approved dispensing equipment.
    2. Roof insulation.
      - a. Extend insulation full thickness over entire surface to be insulated. Cut and fit around obstructions; fill all voids with insulation. Provide saddles and tapered edges as required to provide positive proper drainage.
      - b. Install and secure in place with insulation adhesive, a double layer of insulation units of the required thickness. Run long joints of insulation in continuous straight lines, perpendicular to roof slope, with end joints staggered between rows. Stagger joints of each layer of insulation. Butt edges to moderate contact. Limit joints between adjacent units to maximum 1/4".
    3. Insulation cover board: Install and secure in place with insulation adhesive a single layer of insulation cover board on installed roof insulation. Secure cover board in accordance with membrane manufacturer's recommendations. Stagger joints with joints of roof insulation.
    4. Thermoplastic membrane: Comply with membrane manufacturer's instructions and recommendations for handling and installing single ply membrane roofing.
      - a. Unroll and position roofing sheet membrane without stretching. Align top sheet with pre-marked lines on bottom sheet. Allow membrane to "relax" for at least 30 minutes before adhering, splicing and flashing.
      - b. Adhere membrane to insulation cover board with bonding adhesive. Bond membrane to achieve maximum contact.
      - c. Join membrane seams using approved heat welding equipment. Check all splices for voids and repair voids with heat gun and roller.
      - d. When required, mechanically fasten membrane at roof perimeter, curb flashing and similar penetrations in accordance with manufacturer's installation instructions.
      - e. Flash and make weathertight all equipment curbs, pipes, conduits, drains and other penetrations or projections through sheet roofing using roofing system manufacturer's recommended flashing materials, accessories and procedures.
    5. Install roof accessories and traffic walkways in accordance with manufacturer's instructions.
    6. Install sheet metal work furnished under section 07600.

**SECTION 07600 - FLASHING AND SHEET METAL**

- General:
- A. Standards: Materials and construction shall conform to following:
    1. SMACNA "Architectural sheet Metal Manual- 1993."
  - B. Installation: Performed under Section 07540 work.

- 1.1 Pre-manufactured perimeter edge metal and accessories
- Manufacturer: Duro-Last Roofing / Exceptional Metals, Inc. (800) 248-0280, Jason Dark, www.Duro-Last.com
- A. Duro-Last / Exceptional Metals Snap Coping made of 24-gauge galvalume, cover provided with Kynar architectural finish providing a 35 year finish warranty. Meets ANSI/SPRI ES-1 2003 method RE-2 testing requirements. (Color - Refer to Exterior Elevations)
  - B. Duro-Last / Exceptional Metals Vinyl backed scupper. Scupper profile & size indicated Fig 1-20.

- 1.2 General: Miscellaneous sheet metal
- A. Standards: Materials and construction shall conform to following:
    1. SMACNA "Architectural sheet Metal Manual- 1993."
  - B. Installation: Performed under Section 07540 work.

- 2.1 Materials:
- A. Galvanized steel: ASTM A653 commercial quality sheet steel with 0.2% copper, G90 hot-dip galvanized. Gage indicated.
    1. Scuppers: Minimum 16 gage.
    2. Coping/Wall caps: Minimum 18 gage.
  - B. Aluminum sheet: ASTM B209 alloy 3003, temper as required for forming and performance. Thickness indicated.
    1. Conductor Boxes: Minimum 0.040" thickness.
    2. Downspouts: Minimum 0.025" thickness.
  - C. Joint sealers: One-component silicone elastomeric joint sealant complying with ASTM C920. Color matched to sheet metal finish.
  - D. Metal accessories: Provide sheet metal fasteners, clips, straps, anchoring devices and similar accessory units as required for installation of work, matching or compatible with material installed, non-corrosive, size and gage as required for performance and acceptable to the Architect.
  - E. Fabrication: Shop fabricate sheet metal work to comply with profiles and sizes indicated and to comply with standard industry standards as shown by SMACNA in the "Architectural Sheet Metal Manual."
    1. Conductor boxes: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-25.
    2. Scuppers: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated Fig 1-20.
    3. Downspouts: SMACNA Chapter 1 - Roof Drainage Systems. Profile and size indicated. Installation Fig. 1-31 with strap hanger Fig. 1-35.
    4. Formed coping/wall caps: SMACNA Chapter 3 - Copings. Design Fig 3-1. Profile and size indicated with Fig. 3-3 butt joints and concealed back-up plates. Install formed copings with continuous cleat fasteners similar to Fig 3-1 at exposed face and screw fasteners with washers space maximum 24" on center at roof side.

- 3.1 Installation:
- A. Preparation: Coordinate sheet metal work with other work for the correct sequencing of items which make up the entire roof system of weatherproofing and rain drainage.
  - B. Installation: Comply with SMACNA "Architectural Sheet Metal Manual" recommendations, drawing details and approved shop drawings for installation of the work.
    1. Anchor sheet metal items securely in place by methods indicated, providing for thermal expansion. Conceal fasteners and expansion provisions whenever possible. Install joint sealants where required.
    2. Set units true to lines and levels indicated. Install work with sealed laps, joints and seams that will be permanently watertight and weathertight. Best flanges of sheet metal work in thick coat of roofing cement or sealant compatible with roofing membrane.
    3. Separate sheet metal work from dissimilar metals and treated wood materials. Provide rosin-sized paper slipseet over treated wood.
    4. Fabricate, support and anchor conductor boxes and downspouts to withstand thermal expansion, stresses and full loading by ice or water without damage, deterioration or leakage.

**NOT USED SECTION 07610 - SHEET METAL WALL PANELS**

- 1.1 General:
- A. Standards:
    1. Furnish all labor, material, tools, equipment and services for all preformed fascia and wall panels as indicated, in accord with provisions of Contract Documents.
    2. Completely coordinate work with all other trades.
    3. Although such work is not specifically indicated, furnish and install all supplementary or miscellaneous items, appurtenances and devices incidental to or necessary for a sound, secure and complete installation.
  - B. Related work specified elsewhere:
    1. Structural steel: Section 05100
    2. Steel joists: Section 05200 or 05400
    3. Flashing and sheet metal: Section 07600

- 1.2 Quality Assurance:
- A. Applicable standards:
    1. SMACNA: "Architectural Sheet Metal Manual" Sheet Metal and Air Conditioning Contractors National Association, Inc.
    2. AISC: "Steel Construction Manual" American Institute of Steel Construction.
    3. AISI: "Cold Form Steel Design Manual" American Iron and Steel Institute.
    4. ASTM A792-83-AZ50: Specifications for steel sheet, aluminum-zinc alloy coated (galvanized) by the hot dip process, general requirements (Galvalume).
  - B. Manufacturer's qualifications:
    1. Manufacturer has a minimum of three years experience in manufacturing metal wall systems of this nature. Panels specified in this section shall be produced in a factory environment (not job site roll formed) with fixed base roll forming equipment assuring the highest level of quality control. A letter from the manufacturer certifying compliance will accompany the product material submittals.

- 1.3 Product Delivery, Storage and Handling
- A. Delivery: Deliver metal wall system to job site properly packaged to provide protection against transportation damage.
  - B. Handling: Exercise extreme care in unloading, storing and erecting metal wall system to prevent bending, warping, twisting and surface damage.
  - C. Storage: Store all materials and accessories above ground on well skidded platforms. Store under waterproof covering. Provide proper ventilation of metal wall system to prevent condensation build up between each panel or trim/ flashing component.

- 2.1 Materials
- A. Metal wall system profile:
    1. Shadow Rib: 3 inch deep x 16 inch width with 1 1/2 inch deep x 5 1/4 inch wide fluting
  - B. Metal wall system style:
    1. Fluted face
    2. Concealed fasteners
  - C. Gauge: 24 gauge
  - D. Substrate: Per Plans
  - E. Texture: Smooth
  - F. Finish: Premium thermoset silicone polyester (20 year warranty)
  - G. Color: Polar White, to be painted per Exterior Elevations
  - H. Acceptable Manufacturer: MBCI Houston, Texas (281) 445-8555.

- 3.1 Surface Conditions
- A. Examination:
    1. Inspect installed work of other trades and verify that such work is complete to a point where this work may continue.
    2. Verify that installation may be made in accordance with approved shop drawings and manufacturer's instructions.

- 3.2 Installation
- A. Install metal wall system system so that it is weathertight, without waves, warps, buckles, fastening stresses or distortion.
  - B. Install metal wall system in accordance with manufacturer's instructions and shop drawings.
  - C. Provide concealed anchors at all panel attachment locations.
  - D. Install panels plumb, level and straight with seams parallel, conforming to design as indicated.

- 3.3 Cleaning, Protection
- A. Dispose of excess materials and remove debris from site.
  - B. Clean work in accordance with manufacturer's recommendations.
  - C. Protect work against damage until final acceptance. Replace or repair to the satisfaction of the architect and work that becomes damaged prior to final acceptance.
  - D. Touch up minor scratches and abrasions.

- 3.4 Field Painting
- A. Refer to section 09500 on G017
  - B. Follow manufacturer's technical bulletin for Precoated Signature 200 MBCI wall panels.

**Section 07900 - JOINT SEALERS**

- 1.1 General: Provide joint sealers as shown and specified.
- A. Standards: Comply with ASTM C 920 requirements.
  - B. Application: Performed by skilled, experienced joint sealer applicators.

- 2.1 Materials:
- A. Poly urethane sealants:
    1. Tremco Commercial Sealants (800) 321-7966, internet www.tremcosealants.com,
      - a. "Dymonic FC" One component, fast skinning, Low Modulus Polyurethane.
      - b. "Dymonic 240 FC" Multi Component, gun grade, chemically curing, timely fast setting polyurethane sealant.
    2. Sonneborn, (724) 756-9582, internet www.sonneborn.com
      - a. Color pack for polyurethane multi component, gun grade chemically curing sealant.
  - B. Silicone Sealants:
    1. General Electric Silicones, (800) 295-2392, internet www.gesilicones.com
      - a. "SCS1700 Sanitary - Mold/Mildew Resistant Silicone", one component 100% silicone, fungicidal based sealant.
      - b. "SCS2700 Silpruf Silicone" one component medium modulus, natural cure silicone all purpose sealant.
      - c. "Siglaze II SCS2800- Glazing Sealant" one component, 100% silicone based sealer.
      - d. "GE Paintable Silicone" one component paintable silicone.
      - e. "SCS1009 Silicone Sealant" one-component acetoxyl silicone for general purpose sealing and bonding
    2. Dow Corning Silicones, (989)496-4000, www.dowcorning.com
      - a. "Dow 795" - one component, medium modulus, natural cure silicone.

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

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

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

- 4.1 Sealant Schedule:
- A. Exterior Joints:
    - Provide a continuous bead of Tremco Dymeric limestone urethane sealant at the following locations:
      1. Sidewalk/concrete expansion joints.
    - Provide a continuous bead of Dow 795 silicone or Tremco Dymeric 240 FC at the following locations:
      1. Hollow metal door frames.
      2. EIFS to abutting services.
      3. Penetrations in EIFS.
      4. Face brick or block control joints.
      5. Perimeter of Aluminum Storefronts.
- \*Colors to be determined per store to match adjacent material colors. Verify with Chipotle Construction Manager and Architect.
- For "Fog" EIFS use Tremco - "Natural White"
  - For "Knight's Armor" EIFS use Sonneborn - "Charcoal Gray" #276-U
  - For white brick use Tremco - "China White"
- Provide a continuous bead of aluminum GE SCS3009 silicone at the following location:
    1. CO2 fill port stainless box.
    2. Faucet for hose. (Please note: color to be determined per store. Verify with Chipotle Construction Manager and Architect).

**DIVISION 8 - DOORS AND WINDOWS**

**SECTION 0810 - STEEL DOORS AND FRAMES**

- 1.1 General: Tenant to provide steel doors and frames as shown and specified.

- A. Standards: Materials and construction shall conform to the following:
  1. ANSI A250.8-2009 "Specifications for Standard Steel Doors and Frames."
  2. ANSI A250.11-01 "Erection Instructions for Steel Frames."
  3. SDI 122-99" Installation for Standard Steel Doors and Frames.
- B. Manufacturer: A member of the Steel Door Institute (SDI).

- 2.1 Materials:
- A. Steel Doors:
    1. Interior: Heavy-duty Level 2, physical performance B, Model 2 seamless construction, ASTM A1008, 18 gage cold-rolled steel face sheets, manufacturer's standard core.
  2. Exterior: Extra heavy-duty level 3, physical performance A, Model 2 seamless construction, ASTM A1008, 16 gage cold-rolled steel face sheets, tops and bottoms closed with flush galvanized steel caps, manufacturer's standard plastic foam insulating core.
  - B. Steel Frames: ASTM A1008, 16 gage cold-rolled steel.
    1. Provide combination buck, jamb and trim type frames for 1-3/4" thick doors, unless otherwise indicated.
    2. Interior and exterior frames: Set-up welded type with mitered corners, reinforced, fully seam welded with exposed welds ground smooth.

- C. Door and frame fabrication:
1. Provide cutouts for mortised hardware, accurately located and made to fit hardware. Provide closer reinforcement for all doors with surface mounted door closers.
  2. Punch frames and factory install rubber door silencers.
  3. Provide minimum three anchors of suitable design for each jamb.
  4. Provide floor clip on bottom of each jamb. Provide angle spreaders at bottom of each set-up frame.
- D. Shop painting: Clean and paint exposed surfaces of steel door and frame units. Apply one baked-on shop coat of rust-inhibitive prime paint in accordance with ANSI A250.10, unless doors and frames are used at the restrooms or as indicated on door hardware and finish schedule. Provide a uniformly finished surface ready to receive finish paint.

- 3.1 Installation:
- A. Install frames plumb, level, rigid, and in true alignment as recommended in ANSI A250.11.
  - B. Install doors plumb and in true alignment and fastened to achieve the maximum operational effectiveness and appearance as recommended in SDI 122.

**SECTION 084113 - ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS**

- 1.1 General: Provide aluminum entrances and storefronts as shown and specified.

- 1.2 Related Documents:
- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this section.
  - B. Standards: Materials and construction shall conform to the following:
    1. AAMA SFM-1-87 "Aluminum Storefront and Entrance Manual."

- 1.3 Summary:
- A. Section Includes:
    1. Kawneer Architectural Aluminum Storefront Systems, including perimeter trims, stools, accessories, shims and anchors, and perimeter sealing of storefront units.
      - a. Types of Kawneer Aluminum Storefront include:
        - (1) Trifab VG 451T Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
    2. Kawneer Aluminum Entrances, glass and glazing, and components
      - a. Types of Kawneer Aluminum Entrances include:
        - (1) 500 Swing Door; Wide stile, 5" vertical face dimension, 1-3/4" depth, high traffic applications or as indicated on Drawings.
    3. Kawneer Tube for Feature Exterior Slat Wall



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

23068  
comm. no.

ARCHITECTURAL  
SPECIFICATIONS

G012

4. Alternate Storefront Systems only when approved by Arch PM and Chipotle DM.
- a. YKK
    - (1.) YES 45 TU Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
  - b. Oldcastle
    - (1.) Series 3000 Thermal MultiPlane Storefront System - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
  - c. US Aluminum
    - (1.) Series FT451 - 2" x 4-1/2" nominal dimension; Thermal; Front-Set
  - d. EFCO
    - (1.) Series 402 (T) Storefront System - 2" x 4-1/2" nominal dimension; Thermal
  - e. Wausau
    - (1.) TU24000 Storefront System - 2" x 4-1/2" nominal dimension; Thermal

1.4 Performance Requirements:

- A. General Performance: Aluminum framed storefront system shall withstand the effects of the following performance requirements without exceeding performance criteria or failure due to defective manufacture, fabrication, installation, or other defects in construction.
1. Design Wind Loads: Determine design wind loads applicable to the Project from basic wind speed indicated in miles per hour, according to ASCE 7, Section 6.5, "Method 2-Analytical Procedure," based on mean roof heights above grade indicated on Drawings.
    - a. Basic Wind Speed (MPH): Determine to meet local codes listed on A000
    - b. Importance Factor: (1.00)
    - c. Exposure Category (A, B, C, D): Determine to meet local codes listed on A000
- B. Storefront System Performance Requirements:
1. Wind loads: Provide storefront system, include anchorage, capable of withstanding inward and outward wind load design pressures meeting local codes listed on sheet A000.
  2. Air Infiltration:
    - a. Air Infiltration for storefront frame system: The test specimen shall be tested in accordance with ASTM E 283. Air infiltration rate shall not exceed 0.06 cfm/R. sq. at a static air pressure differential of 6.24 psf.
    - b. Air Infiltration for storefront entrances: For single acting offset pivot or butt hung entrances in the closed and locked position, the test specimen shall be tested in accordance with ASTM E 283 at a pressure differential of 6.24 psf (300 Pa) for single doors and 1.567 psf (75 Pa) for pairs of doors. A single 3'0" x 7'0" entrance door and frame shall not exceed 0.50 cfm per square foot. A pair of 6'0" x 7'0" entrance doors and frame shall not exceed 1.0 cfm per square foot.
  3. Water Resistance: The test specimen shall be tested in accordance with ASTM E 381. There shall be no leakage at a minimum static air pressure differential of 8 psf as defined in AAMA 501.
  4. Uniform Load: A static air design load of 20 psf shall be applied in the positive and negative direction in accordance with ASTM E 330. There shall be no deflection in excess of 1/175 of the span of any framing member. At a structural test load equal to 1.5 times the specified design load, no glass breakage or permanent set in the framing members in excess of 0.2% of their clear spans shall occur.
  5. Thermal Transmittance (U-factor): When tested to AAMA Specification 1503, the thermal transmittance (U-factor) shall be not more than:
    - a. Glass to Exterior - 0.47 (low-e)
  6. Condensation Resistance (CR): When tested to AAMA Specification 1503, the condensation resistance factor shall not be less than:
    - a. Glass to Exterior - 70 frame and 69 glass (low-e)
  7. Sound Transmission Class (STC) and Outdoor-Indoor Transmission Class (OITC): When tested to AAMA Specification 1801 and in accordance with ASTM E1425 and ASTM E90, the STC and OITC Rating shall not be less than:
    - a. Glass to Exterior - 38 (STC) and 31 (OITC)

1.5 Submittals:

- A. Product Data: Include construction details, material descriptions, dimensions of individual components and profiles, hardware, finishes, and installation instructions for each type of aluminum frame storefront system and storefront entrance doors indicated.
- B. Shop Drawings: Include plans, elevations, sections, details, hardware, and attachments to work, operational clearances and installation details.
- C. Samples for Initial Selection: For units with factory-applied color finishes including samples of hardware and accessories involving color section.

1.6 Quality Assurance

- A. Installer Qualifications: An installer which has had successful experience with installation of the same or similar units required for the project and other projects of similar size and scope.
- B. Manufacturer Qualifications: A manufacturer capable of providing aluminum framed storefront system that meet or exceed performance requirements indicated and of documenting this performance by inclusion of test reports, and calculations.
- C. Source Limitations: Obtain aluminum framed storefront system and storefront entrance doors through one source from a single manufacturer.
- D. Product Options: Drawings indicate size, profiles, and dimensional requirements of aluminum framed storefront system and are based on the specific system indicated. Do not modify size and dimensional requirements.
  1. Do not modify intended aesthetic effects, as judged solely by Architect, except with Architect's approval. If modifications are proposed, submit comprehensive explanatory data to Architect for review.

1.7 Project Conditions:

- A. Field Measurements: Verify actual dimensions of a aluminum framed storefront openings by field measurements before fabrication and indicate field measurements on Shop Drawings.

1.8 Warranty

- A. Manufacturers Warranty: Submit, for Owner's acceptance, manufacturer's standard warranty.
  1. Warranty Period: Two (2) years from Date of Substantial Completion of the project provided however that the Limited Warranty shall begin in no event later than six months from date of shipment by manufacturer.

2.1 Manufacturers:

- A. Manufacturer: Kawneer Company Inc., Contact: Cheryl Wilkerson, Phone: 317-771-9263; email:cheryl.wilkerson@arconic.com
1. Basis-of-Design Product Storefront Framing:
    - i. TriFab 4511 (thermal) Storefront System
      - ii. 2" x 4-1/2" System Dimensions
      - iii. Glass: Exterior (Front-Set)
  2. Basis-of-Design Product Storefront Entrances:
    - a. The door stile and rail face dimensions of the 500-Wide Stile entrance door will be as follows or as indicated on Drawings: Door: 500; Vertical Stile: 5"; Top Rail: 5"; Bottom Rail: 10"
    - b. Major portions of the door members to be 0.125" nominal in thickness and glazing molding to be 0.05" thick.
    - c. Glazing gaskets shall be either EPDM elastomeric extrusions or a thermoplastic elastomer.
    - d. Provide adjustable glass jacks to help center the glass in the door opening.

2.2 Materials:

- A. Provide aluminum entrances and storefront matching the existing building aluminum entrances and storefronts, unless otherwise indicated.
- B. Aluminum Frame Extrusions: Alloy and temper recommended by aluminum storefront manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.070" wall thickness at any location for the main frame and complying with ASTM B 221: 6063-T6 alloy and temper.
- C. Aluminum Storefront Entrance Extrusions: Alloy and temper recommended by aluminum-framed glass door manufacturer for strength, corrosion resistance, and application of required finish and not less than 0.080" wall thickness at any location for the main frame and sash members.
- D. Fasteners: Aluminum, nonmagnetic stainless steel or other materials to be non-corrosive and compatible with aluminum window and door members, trim hardware, anchors, and other components.
- E. Anchors, Clips, and Accessories: Aluminum, nonmagnetic stainless steel, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions, or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.
- F. Reinforcing Members: Aluminum, nonmagnetic stainless steel, or nickel/chrome-plated steel complying with ASTM B 456 for Type SC 3 severe service conditions, or zinc-coated steel or iron complying with ASTM B 633 for SC 3 severe service conditions or other suitable zinc coating; provide sufficient strength to withstand design pressure indicated.
- G. Sealant: For sealants required within fabricated storefront system, provide permanently elastic, non-shrinking, and non-migrating type recommended by sealant manufacturer for joint size and movement.
- H. Tolerances: Reference to tolerances for wall thickness and other cross-section dimensions of storefront members are nominal and in compliance with AA Aluminum Standard Data.

2.3 Storefront Framing System:

- A. Thermal Barrier: Thermal Break shall be designed in accordance with AAMA TIR-A8 and tested in accordance with AAMA 505. 1. Kawneer IsoLock Thermal Break with a 1/4" separation consisting of a two-part chemically curing, high-density polyurethane, which is mechanically and adhesively joined to aluminum storefront sections.
- B. Brackets and Reinforcements: Manufacturer's standard high-strength aluminum with non-staining, nonferrous shims for aligning system components.
- C. Fasteners and Accessories: Manufacturer's standard corrosion-resistant, non-staining, non-bearing fasteners and accessories compatible with adjacent materials. Where exposed shall be stainless steel.
- D. Perimeter Anchors: When steel anchors are used, provide insulation between steel material and aluminum material to prevent galvanic action.
- E. Packing, Shipping, Handling and Unloading: Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.
- F. Storage and Protection: Store materials protected from exposure to harmful weather conditions. Handle storefront material and components to avoid damage. Protect storefront material against damage from elements, construction activities, and other hazards before, during and after storefront installation.

2.4 Glazing Systems:

- A. Glazing: As specified in Section 08800 - Glazing.
- B. Glazing Gaskets: Manufacturer's standard compression types; replaceable, extruded EPDM rubber.
- C. Spacers and Setting Blocks: Manufacturer's standard elastomeric type.
- D. Bond-Breaker Tape: Manufacturer's standard TFE-fluorocarbon or polyethylene material to which sealants will not develop adhesion.
- E. Glazing Sealants: For structural-sealant-glazed systems, as recommended by manufacturer for joint type, and as follows:
  1. Structural Sealant: ASTM C 1184, single-component neutral-curing silicone formulation that is compatible with system components with which it comes in contact, specifically formulated and tested for use as structural sealant and approved by a structural-sealant manufacturer for use in aluminum-framed systems indicated.
    - a. Color: Black
  2. Weatherseal Sealant: ASTM C 920 for Type S, Grade NS, Class 2S, Uses NT, G, A, and O; single-component neutral-curing formulation that is compatible with structural sealant and other system components with which it comes in contact; recommended by structural-sealant, weatherseal-sealant, and aluminum-framed-system manufacturers for this use.
    - a. Color: Matching structural sealant.

2.5 Entrance Door Systems:

- A. Entrance Door Hardware: As specified in Section 08710 Door Hardware.
- B. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.6 Accessory Materials:

- A. Joint Sealants: For installation at perimeter of aluminum-framed systems, as specified in section 07900 - Joint Sealers

2.7 Storefront Framing Fabrication:

- A. Framing Members, General: Fabricate components that, when assembled, have the following characteristics:
  1. Profiles that are sharp, straight, and free of defects or deformations.
  2. Accurately fit joints; make joints flush, hairline and weatherproof.
  3. Means to drain water passing joints, condensation within framing members, and moisture migrating within the system to exterior.
  4. Physical and thermal isolation of glazing from framing members.
  5. Accommodations for thermal and mechanical movements of glazing and framing to maintain required glazing edge clearances.
  6. Provisions for field replacement of glazing.
  7. Fasteners, anchors, and connection devices that are concealed from view to greatest extent possible.
- B. Mechanically Glazed Framing Members: Fabricate for flush glazing without projecting stops.
- C. Structural-Sealant-Glazed Framing Members: Include accommodations for using temporary support device to retain glazing in place while structural sealant cures.
- D. Storefront Framing: Fabricate components for assembly using manufacturer's standard installation instructions.
- E. After fabrication, clearly mark components to identify their locations in Project according to Shop Drawings.

2.8 Storefront Entrance Door Fabrication:

- A. Fabricate aluminum-framed glass entrance doors in sizes indicated. Include a complete system for assembling components and anchoring doors.
- B. Fabricate aluminum-framed glass doors that are reglazable without dismantling perimeter framing.
  1. Door corner construction shall consist of mechanical clip fastening, SIGMA deep penetration plug welds and 1-1/8" long fillet welds inside and outside of all four corners. Glazing stops shall be hook-in type with EPDM glazing gaskets reinforced with non-stretchable cord.
  2. Accurately fit and secure joints and corners. Make joints hairline in appearance.
  3. Prepare components with internal reinforcement for door hardware.
  4. Arrange fasteners and attachments to conceal from view.
- C. Weather Stripping: Provide weather stripping locked into extruded grooves in door panels or frames as indicated on manufacturer's drawings and details.

2.9 Aluminum Finishes:

- A. Finish designations prefixed by AA comply with the system established by the Aluminum Association for designating aluminum finishes.
- B. Factory Finishing:
  1. Kawneer Permafluor (70% PVDF), AAMA 2605, Fluoropolymer Coating (Color: Charcoal or as noted on Drawings)
  2. Finishing for alternate storefront specifications to be verified by Arch PM and Chipotle DM
    - a. YKK "Charcoal" UC99477, Superior Painted Finishes
    - b. All others to be verified with samples and submittals to Arch PM

2.10 Brake Metal Trim:

- A. Shop Drawings: Show layout and elevations, dimensions and thickness of panels, connections, details and location of joints, sealants and gaskets, method of anchorage, number of anchors, supports, reinforcement, trim, flashings, and accessories.
  1. Show actual field measurements on shop drawings.
  2. Differentiate between shop and field fabrication.
  3. Indicate substrates and adjacent work with which the fabrications must be coordinated.
  4. Include large-scale details of anchorages and connecting elements.
  5. Include large-scale or schematic exploded or isometric diagrams to fully explain flashing at a scale of not less than 1-1/2 inches per 12 inches (1:10)

2.11 Formed Metal Fabrications - General:

- A. Shop assembly: Preassemble items to greatest extent possible. Minimize field splices and field assembly. Disassemble only as necessary for transportation and handling. Mark items clearly for assembly and installation.
- B. Coordination: Match dimensions and attachment of formed metal items to adjacent construction. Produce integrated assemblies. Closely fit joints; align edges and flat surfaces unless indicated otherwise.
- C. Forming: Profiles indicated. Maximize lengths. Fold exposed edges to form hem indicated or ease edges to radius indicated with cocealed stiffener. Provide flat, flush surfaces without cracking or grain separation at bends.
- D. Reinforcement: Increase metal thickness; use concealed stiffeners, backing materials or both. Provide stretcher leveled standard of flatness and stiffness required to maintain flatness and hold adjacent items in flush alignment.
- E. Anchors: Straps, plates and anchors as required to support and anchor items to adjacent construction.
- F. Supports: Miscellaneous framing, mounting, clips, sleeves, fasteners and accessories required for installation.
- G. Welding and brazing: Weld or braze joints continuously. Grind smooth, fill or dress to produce smooth, flush, exposed surfaces. Do not discolor metal. Grind Smooth, polish; and restore damaged finishes to required condition.
  1. Ease exposed edges to small uniform radius.
  2. Welded joints
    - a. Carbon Steel: Perform welding in accordance with AWS D1.1/D1.1M.
    - b. Stainless Steel: Perform welding in accordance with AWS D1.6/D1.6M.
  3. Brass/Bronze Brazed Joints
    - a. Perform torch brazing in accordance with AWS C3.4M/C3.4
    - b. Perform induction brazing in accordance with AWS C3.5M/C3.5
    - c. Perform resistance brazing in accordance with AWS C3.9M/C3.9
- H. Performance requirements:
  1. Thermal Movements:
    - a. Allow for thermal movements in exterior metal fabrications due to temperature changes. Prevent buckling, opening of joints, overstressing of components, failure of connections, and other detrimental effects.
    - b. Temperature Change Range: 120 degrees F (67 degrees C), ambient; 180 degrees F (100 degrees C), on material surfaces.
  2. Corrosion: Prevent galvanic action and other forms of corrosion by isolating metals and other materials from direct contact with incompatible materials.

2.12 Formed Metal Fabrications - Sheet Metal

- A. Closures, Trim, and Fill Panels:
  1. Form Closures from type and thickness of metal indicated.
  2. Conceal fasteners when possible.
  3. Drill and tap holes for securing to other surfaces.
  4. Provide gaskets where indicated or needed for continuous seal at adjacent surfaces.
  5. Miter or cope at corners and reinforce with bent metal plate. Form tight joints.

2.13 Materials

- A. General: Provide sheet metal without pitting, seam marks, roller marks, stains, discolorations, or other imperfections exposed to view on finished units.
- B. Galvanized Steel Sheet: ASTM A653/A653M, C90 (2775) coating, 14 gauge min. thick base material.
- C. Anchors, Clips, and Accessories: Use one of the following:
  1. Stainless steel complying with ASTM A276/A276M, ASTM A480/A480M, or ASTM A666.
  2. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A153/A153M.
  3. Steel complying with ASTM A36/A36M and hot-dipped galvanized to ASTM A132/A132M Coating Grade 35
  4. Interior locations: Carbon steel; zinc coated in accordance with ASTM B633 or ASTM F1941/F1941M, Class Fe/Zn 5.
  5. Exterior locations or in contact with Stainless Steel:
    - a. Bolts: Stainless steel; ASTM F593, Group 1 (A1)
    - b. Nuts: Stainless steel; ASTM F594.
  6. Structural Anchors: Provide anchors where work is indicated to comply with design loads.
    - a. Type: Provide chemical or torque controlled expansion anchors.
    - b. Capacity: When tested according to ASTM E488/E488M, four times the load imposed when installed in concrete.
  7. Nonstructural Anchors: Provide powder-actuated fasteners where work is not indicated to comply 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 material joined.
- E. Gaskets: As required to seal joints in decorative formed metal and remain airtight; as recommended in writing by decorative formed metal manufacturer.

2.14 Finishes

- A. Finishes, General: Comply with NAAMM AMP 500-06
  1. Complete mechanical finishes before fabrication. After fabrication, finish joints, bends, abrasions and surface blemishes to match sheet.
  2. Protect mechanical finishes on exposed surfaces from damage.
  3. Apply organic and anodic finishes to formed metal after fabrication unless indicated otherwise.
  4. Appearance: Limit variations in appearance of adjacent to one-half the range represented in approved samples. noticeable variations in the same piece are not acceptable. Install components in the range of approved samples to minimize contrast.
- B. Galvanized Steel Finishes:
  1. Repair Galvanized Surfaces: Clean welds and abraded areas and repair galvanizing to comply with ASTM A780/A780M
  2. Color: As shown on the drawings.
  3. Factory Prime: Apply shop primer to prepared surfaces of items where field painting after installation indicated, unless indicated otherwise. Comply with requirements in SSPC-PA1
  4. High Performance Organic Coatings: AAMA 2604; multiple coats, thermally cured fluoropolymer system.

3.1 Examination:

- A. Examine openings, substrates, structural support, anchorage, and conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of work. Verify rough opening dimensions, levelness of sill plate and operational clearances. Examine wall flashings, vapor retarders, water and weather barriers, and other built-in components to ensure a coordinated, weather tight framed aluminum storefront system installation.
  1. Masonry Surfaces: Visibly dry and free of excess mortar, sand, and other construction debris.
  2. Wood Frame Walls: Dry, clean, sound, well nailed, free of voids, and without offsets at joints. Ensure that nail heads are driven flush with surfaces in opening and within 3 inches of opening.
  3. Metal Surfaces: Dry, clean; free of grease, oil, dirt, rust, corrosion, and welding slag; without sharp edges or offsets at joints.
  4. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 Installation:

- A. Comply with Drawings, Shop Drawings, and manufacturer's written instructions for installing aluminum framed storefront system, aluminum swing storefront entrance doors, accessories, and other components.
- B. Install aluminum framed storefront system and storefront doors level, plumb, square, true to line, without distortion or impeding thermal movement, anchored securely in place to structural support, and in proper relation to wall flashing and other adjacent construction.
- C. Set sill members and door threshold in bed of sealant or with gaskets, as indicated, for weather tight construction.
- D. Install aluminum framed storefront system and components to drain condensation, water penetrating joints, and moisture migrating within sliding door to the exterior. Refer to section 07900 - Joint Sealers.
- E. Separate aluminum and other corrodible surfaces from sources of corrosion or electrolytic action at points of contact with other materials.
- F. Install aluminum storefront framing system glass and glazing, in accordance with section 08800 and the manufacturer's requirements.

3.3 Adjusting, Cleaning, and Protection:

- A. Clean aluminum surfaces immediately after installing aluminum framed storefronts. Avoid damaging protective coatings and finishes. Remove excess sealants, glazing materials, dirt, and other substances.
- B. Clean glass immediately after installation. Comply with glass manufacturer's written recommendations for final cleaning and maintenance. Remove nonpermanent labels, and clean surfaces.
- C. Remove and replace glass that has been broken, chipped, cracked, abraded, or damaged during construction period.

SECTION 085619 - PASS-THRU WINDOW

1.1 General: Provide door hardware as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
  1. ASTM A240 - Heat-Resisting Chromium and Chromium-Nickel Stainless Steel Plate, Sheet, and Strip for Pressure Vessels.
  2. ASTM A653 - Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process.
  3. ASTM B209 - Aluminum and Aluminum-Alloy Sheet and Plate.
  4. ASTM B221 - Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes.
  5. ASTM B580 - Standard Specification for Anodic Oxide Coatings on Aluminum.
  6. ASTM B680 - Standard Test Method for Seal Quality of Anodic Coatings on Aluminum by Acid Dissolution.
  7. ASTM C1048 - Heat-Treated Flat Glass-Kind H5, Kind FT Coated and Uncoated Glass.
  8. ASTM C1172 - Standard Specification for Laminated Architectural Flat Glass.
  9. ASTM E774 - Standard Specification for Sealed Insulating Glass Units.
  10. Aluminum Association AA DAF-45 - Designation System for Aluminum Finishes.
- B. Quality Assurance:
  1. Manufacturer Qualifications: Minimum of 25 years successful experience continuously manufacturing pass-thru windows.
  2. Installer Qualifications: Installer shall have five years experience manufacturing and fabricating windows of similar type and scope as those specified in this section.
  3. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
    - a. Finish areas designated by Architect.
    - b. Do not proceed with remaining work until workmanship, color, and sheen are approved by Architect.
    - c. Refinish mock-up area as required to produce acceptable work.

2.1 Materials:

- A. Acceptable Manufacturers: Arch PM to verify required manufacturer per Tenant's assignment.
  1. Quikserv, Toll Free: 1.800.388.8307; Email: gals@quikserv.com; Web: https://www.quikserv.com/
  2. ReadyAccess; Toll Free: 1.800.621.5045; email: ready@ready-access.com; Web: https://www.ready-access.com
- B. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.

2.2 In-Line Side Sliding Automatic Window and Air Curtain

- A. Standard Custom Side Sliding Windows - Arch PM to verify manufacturer with Tenant.
- Quikserv Custom Automatic Side Sliding Window (Model: SST-4035E-CHIPOTLE): 45 -1/2"W x 41-3/4"H window with 17-3/4" tall transom and (2) sidelights at 29 1/4"W x 41-3/4"H; Complete Unit Size 104"W x 59-1/2"H
1. Service Opening: 19"W x 29-3/4"H
  2. Finish: Dark Bronze Anodized
  3. Glass: 1" Clear Tempered unit + Low E (Solarban 60e) for fixed and moving panel, sidelights and transom
  4. "CHIPOTLE" package includes pre-wired air curtain with relay to sync operation with window.
    - a. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment. Air curtain mounts to transom.
      - i. Heated Air Curtain: Model: QSV1025E-040-BK
      - ii. Ambient Air Curtain: Model: QSK1025A-BK
    - 5. Refer to interior elevations (A700s) for direction of opening for ordering.
- ReadyAccess Automatic Side Sliding Window: 47-1/2"W x 43-1/2"H window with 16" tall transom and (2) sidelights at 28 1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
1. Service Opening: 19"W x 35"H
  2. Finish: Dark Bronze Anodized
  3. Glass: 3/4" Clear Tempered unit + Low E (Solarban 70XL) for fixed & moving panel, sidelights and transom
  4. Arch PM to verify if heated or ambient air curtain is required per Tenant assignment.
    - a. Heated Air Curtain: Model: AA300 (replaces transom)
    - b. Ambient Air Curtain: Model: AA100 (split transom)
    - 5. Refer to exterior elevations (A300s) for direction of opening for ordering.
- B. Alternate California Code Option
1. ReadyAccess: Window 47-1/2" W x 35-3/4"H with double-split transom for air curtain and 10" and (2) sidelights at 28-1/4"W x 59-1/2"H; Complete Unit Size 104"W x 59-1/2"H
    - a. Service Opening: 15-1/4"W x 28"H, limited to meet CA code.
    - b. Ambient Air Curtain, AA100, and relay switch kit included with the West Coast Window package.
  2. Quikserv Model: SS-4035-E-CHIPOTLE-CALI, same as above except as noted.
    - a. Service Opening: 28"W x 15-3/8"H, limited to meet CA code.
    - b. "CHIPOTLE" package includes pre-wired ambient air curtain with relay to sync operation with window Model: QSK1025AA-BK. Air curtain mounts to transom.
- C. Alternate Impact-Resistant and Florida Product Approved Option, Miami Dade Horizontal Bi-Parting Impact Slider
1. Quikserv Model: BP-7241E-IP-CHIPOTLE, Complete Unit Size: 72"W x 41"H.
    - a. Service Opening: 29-3/2"W x 27"H
    - b. Rough Opening: 72-3/2"W x 41-1/2"H
    - c. Glass: Impact Resistant Glass
    - d. "CHIPOTLE" package includes ambient air curtain
      - i. Ambient Air Curtain: Model: QSK1025AA-BK, Part Number: 9345.
      - ii. Do not mount directly to window, mount on wall above.
    - e. Miami-Dade NOA #18-0814.02



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

23068  
comm. no.

ARCHITECTURAL  
SPECIFICATIONS

G013

2.3 Electrical Requirements

- A. Qulksen Electrical Windows: 120V / 60 Hz, 20-amp branch circuit, single phase. Power supplied through base of window. Conforms to UL Standard 325 - Certified to CAN/CSA C22.2 NO. 247. Confirm with Electrical Drawings.
1. Heated Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE)
a. Separate 230V circuit and Power Supply required for heated air curtain. Air curtain pre-wired through window frame with power supply routed to base of window. Confirm with Electrical Drawings.
2. Ambient Air Curtain for Custom Side Sliding Window (Model: SS-4035-E-CHIPOTLE) and Alternate California Code Option: Model: SS-4035-E-CHIPOTLE-CALI
a. Separate circuit not required. Window pre-wired to power and sync operation with air curtain.
3. Ambient Air Curtain for Alternate Impact-Resistant and Florida Product Approved Option (Model: BP-7241E-IP-CHIPOTLE):
a. Connect to main control board on window to power and synchronize operation with opening and closing of window.
B. ReadyAccess Electrical Windows: 115V / 60 Hz, 15-amp dedicated circuit required. Run power to header on fixed panel side.
1. AA300 Heated Air Curtain
a. Separate 208V /60 Hz /40-amp single phase circuit required.
2. AA100 Ambient Air Curtain (Standard and CA window)
a. Separate 120V / 60Hz / 15-amp single phase circuit required. Run power to center of window above header.

3.1 Installation

- A. Install in accordance with manufacturer's instructions.
B. Install pass-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.

SECTION 08710 - DOOR HARDWARE

1.1. General: Provide door hardware as shown and specified.

- A. Standards: Materials and installation shall conform to the following:
1. ANSI A117.1-2009 Accessible and Usable Buildings and Facilities.
2. ANSI/BHMA A156 Series Builders Hardware
B. Quality Assurance:
1. Codes and standards: Provide hardware complying with local Building Code requirements and the Tenant's standards for keying and security systems.
2. Project scheduling: Performed by an Architectural Hardware Consultant (AHC).
3. Package each item of hardware and each lockset, complete with all screws, anchors, installation instructions and templates. Identify package indexing with corresponding item number of the hardware schedule.
4. After hardware schedule acceptance, provide necessary templates or physical hardware to require trades for cutting, reinforcing, or preparing their products to receive hardware. Furnish templates to metal door manufacturer's.

2.1 Materials:

- A. No substitutions allowed. Requirements for manufacturer, design, grade, function, finish, size and other distinctive qualities of each type of door hardware are indicated on the drawings.
B. Review the keying system with the Tenant and provide the type required.

3.1 Installation

- A. Install each hardware item in strict accordance with manufacturer's installation instructions and recommendations. Securely fasten all attached parts. Fit faces of mortised parts snug and flush. Verify operating parts move freely and smoothly without binding or sticking, without excessive clearance.
B. Set units level, plumb and true to line and location. Adjust and reinforce attachment substrate as required for proper installation and operation. Drill and countersink units that are not factory prepared for anchorage fasteners. Space fasteners and anchors in accordance with industry standards.
C. Mount hardware units at heights indicated in DH1 "Recommended Locations for Builders Hardware", unless otherwise required to comply with requirements of governing codes and regulations. Conform to ANSI A117.1 and ADAGG guidelines for accessibility.
1. Top Butts: 5 inches; top of butt from head of frame.
2. Middle Butts: 3'-2", centerline from finish floor.
3. Bottom Butts: 5 inches; finish floor to bottom of butt.
4. Locks: centerline from finish floor per hardware schedule.
5. Knobs: 3'-2", centerline from finish floor.
6. Pulls: centerline from finish floor per hardware schedule.
7. Pushes: centerline from finish floor per hardware schedule.

SECTION 08800 - GLAZING

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

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

2.1 Materials:

- A. Glass:
1. Float Glass (FG): 1/4" thick clear float glass.
2. Tempered Glass (TG): 1/4" and 1/2" thick clear, tempered safety glass, free-of-tong marks.
3. Insulating Glass (IGL): 1" thick clear, low-e tempered sealed glass; 1/4" thick interior and exterior glass lites with 1/2" aluminum desiccated dual sealed air space; with the following characteristics:
a. Low-emissivity coating on #2 surface.
b. Visible Light Transmittance: 68% - 70%
c. Visible Light Reflectance - Outdoors: 9%-11%
d. Solar Energy Transmittance: 32%-34%
e. Solar Energy Reflectance-Outdoors: 30%-34%
f. U-Value - Winter Night: 0.29
g. U-value - Summer days: 0.28
h. Solar Heat gain Coefficient: 0.35-0.39
i. Shading Coefficient: 0.43-0.45
j. Manufacturers/Products:
i. AGC/Comford Tri-ACAO, or similar to meet code
ii. Sun Guard/SN-68, or similar to meet code
iii. PPG/Solarban 60, or similar to meet code
iv. Viracon/VE1-2M, or similar to meet code
4. Spandrel Glass (SG) 1/4" thick, Spandrel Ceramic Glass, (Color: Gray/Black or as noted on drawings) by Old Castle Building Envelope (419) 666-2000, Contact: Doug Dewar
5. Frosted Window Film, 3M Dusted Crystal Translucent Window Film. Apply on the interior side of glazing.

B. Glazing Materials:

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

3.1 Installation

- A. Preparation:
1. Field verify measurements and conditions of installation.
2. Examine all details. Provide proper fitting to details indicated.
3. Glazing channel dimensions shown are intended to provide for necessary bite on glass, minimum edge clearance and adequate glazing materials thickness, with reasonable tolerances. Adjust as required by job conditions at time of installation.
B. Install glass and glazing in accordance with the GANA "Glazing Manual" and glass manufacturer's recommendations.
1. Install insulating glass units to comply with recommendations by Sealed Insulating Glass Manufacturers Association (SIGMA).
C. Install setting blocks of proper size at quarter points of sill rabbet. Provide spacers as required.
D. Install glazing sealants, tapes and gaskets in accordance with manufacturer's recommendations. Set glass without springing and install securely to prevent rattle 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

A. 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, NORMAL TO THE PLANE OF THE WALL OF L/360
ii. DESIGN FOR WIND LOAD IN CONFORMANCE WITH CODE REQUIREMENTS
iii. METAL FRAMING: 18 GAGE (0.048 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 1177
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-FURRED 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:
i. 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 STOGUARD AIR/MOISTURE BARRIER OVER SHEATHING.
- AT THROUGH WALL EXPANSION JOINTS AND AT JOINTS FORMED WITH BACK-TO-BACK CASING BEADS, BACK JOINTS WITH STOGUARD TRANSITION MEMBRANE. REFER TO STO GUIDE 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) CLEARANCE ABOVE FINISHED GRADE (PAVERS/SIDEWALK). 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 BELOW).
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.STOCORP.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.STOCORP.COM

E. JOINTS AND ACCESSORIES:

- i. PROVIDE TWO PIECE EXPANSION JOINTS IN THE STUCCO SYSTEM WHERE BUILDING MOVEMENT IS ANTICIPATED: AT JOINTS IN THE 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 COLLUMNS AND CANTILEVERED AREAS.
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 EXCESSORY. 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 STOGUARD 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 FOAM 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 1/4 INCH (19 MM) STUCCO THICKNESS.
iii. FIRE RESISTANCE RATED NON-LOAD BEARING WALL ASSEMBLY: PROVIDE 1/4 OR 7/8 INCH (19 OR 22 MM) UNIFORM STUCCO THICKNESS. REFER TO STO GUIDE 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 1/4 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.

5. PERFORMANCE REQUIREMENTS:

- a. CONTINUOUS INSULATION:
i. COMPLIANT WITH ASTM C 578 TYPE IV REQUIREMENTS
b. WATERPROOF AIR BARRIER:
i. COMPLIANT WITH ICC ES ACCEPTANCE CRITERIA AC 212 (ICC ESR 1238)
ii. MATERIAL AIR LEAKAGE RESISTANCE, ASTM E 2178: LESS THAN 0.02 L/S M2 (0.004 CFM/FT2 AT 1.57 PSF)
iii. ASSEMBLY AIR LEAKAGE RESISTANCE, ASTM E 2357: 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
vi. TENSILE ADHESION, ASTM C 297:
- GYPSUM SHEATHING, EXCEEDS STRENGTH OF SUBSTRATE
- PLYWOOD, > 85 PSI (590 KPA)
- OSB, > 30 PSI (206 KPA)
vii. 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
c. 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 U,UL, AND IV) CONSTRUCTION.
d. STUCCO BASE:
i. STUCCO SCRATCH AND BROWN COAT MATERIAL IN COMPLIANCE WITH ASTM C 926 AND MANUFACTURED OR LISTED BY STO CORP. (SEE ADDENDUM)
e. 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
f. FINISHES:
i. LOTUS-EFFECT TECHNOLOGY FINISH (STOLIT LOTUSAN):
- SUPER-HYDROPHOBIC TEXTURED FINISH WITH LOTUS-EFFECT TECHNOLOGY
- 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 [(1172 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. 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: > 15 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. FLEXIBLE ACRYLIC FINISH (STO POWERWALL):
- 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
iv. ACRYLIC FINISH (STOLIT, 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.

C. 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 E 283, E 331 AND E 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 E 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 ALKALINE RESISTANT PRIMER IS USED PH TESTING MAY BE WAIVED.
vi. CONDUCT WET 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.

7. 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 UNDER 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.

8. PRODUCTS:

- 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. STOGUARD - FLUID APPLIED WATERPROOF AIR BARRIER FOR SHEATHING, CONCRETE, AND CONCRETE MASONRY SUBSTRATES CONSISTING OF MIXED (COMPATIBLE) COMPONENTS:
i. STO GOLD FILL - READY MIXED ACRYLIC BASED FLEXIBLE JOINT TREATMENT FOR ROUGH OPENING PROTECTION, JOINT TREATMENT OF 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. STOGUARD MESH - NOMINAL 4.2 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. STOGUARD 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. STOGUARD REDICORNER - A PREFORMED FABRIC PIECE USED IN THE CORNERS OF ROUGH OPENINGS IN TANDEM WITH STOGUARD FABRIC FOR QUICKER INSTALLATION
vi. STOGUARD TAPE - SELF ADHERING RUBBERIZED ASPHALT TAPE FOR ROUGH OPENING PROTECTION IN WOOD OR METAL FRAME CONSTRUCTION
vii. STOGUARD PRIMER - PRIMER FOR USE WITH STOGUARD TAPE
viii. STOGUARD 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. STOGUARD RAPIDSEAL - ONE COMPONENT QUICK DRYING WATERPROOF AIR BARRIER MATERIAL FOR ROUGH OPENING PROTECTION, SHEATHING JOINTS (WITH STOGUARD MESH), CMU CRACK REPAIR, AND FOR SEALING FISH MOUTHS, WRINKLES, SEAMS, GAPS, HOLES, OR OTHER VOIDS IN STOGUARD AIR BARRIER MATERIALS
x. STOGUARD 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 STOGUARD AIR BARRIER MATERIALS. ALSO USED AS A DETAIL COMPONENT FOR SHIPLAP CONNECTIONS TO FLASHING, WEEP SCREED, AND SIMILAR SHIP LAP DETAILS.

3. WATER-RESISTIVE 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 1/2" (6 MM) TANGLED FILAMENT NYLON CORE DRAINAGE MAT WITH FABRIC FACING.

FWH Architects logo and contact information: 3336 Grand Blvd, Suite 201, Holiday, Florida 34690, Ph. 727. 815. 3336, FABER@FWHARCHITECTS.COM

THE FERBER COMPANY logo and address: 151 SAWGRASS CORNERS DR, SUITE 202, PONTE VEDRA BEACH, FLORIDA 32082, PHONE (904) 285-7600, FAX (904) 280-5443

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. AR00115323, 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.

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
- 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 STOPOWERWALL 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**

**9.210 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.
  - 1. Partition metal framing:
    - a. Studs: Galvanized steel, C-shaped, sizes indicated, 20 gage "ST20"
    - b. Runners: Match studs, type recommended by stud manufacturer for floor and ceiling support of studs. Provide flexible ceiling runners for full height metal stud framed partitions continuous from floor to underside of structural members or deck above.
- C. Ceiling and Soffit metal framing/suspension systems:
  - 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.
- D. Gypsum board panels: USG "Sheetrock" complying with ASTM C1396, tapered edge face panels, 48" wide, in maximum lengths available to minimize end joint conditions, 5/8" thick.
  - General use panels: Sheetrock Regular panels.
  - Fire rated panels: Sheetrock Firecode Core panels.
  - Water-resistant panels: Sheetrock HUMITEK panels.
- E. Cement board: USG DURROCK Cement Board, 5/8" thick x manufacturer's standard width, complying with ANSI A118.9, and in maximum lengths available to minimize end-to-end butt joints.
- F. Fasteners: USG Type "S" bugle head screws for metal framing, USG Type "M" bugle head screws for wood framing, manufacturer's recommended length for panel thickness indicated.
- G. Trim: Galvanized steel with knurled and perforated flanges. USG Dur-A-Bead corner bead, No. 2008 casing bead metal trim, No. 093 Control Joint.
- H. Joint treatment: USG Joint Treatment System, utilizing "Sheetrock Brand Joint Tape", and "Sheetrock Brand Setting-Type (DURABOND)" compound for tape bedding and topping.
- I. Adhesives: USG "Sheetrock Brand Setting-Type (DURABOND) 210 or 90" compound for tape bedding and topping.
- J. Acoustical sealant: USG Sheetrock Acoustical Sealant, water-base type, gunnable sealant for sealing sound-rated gypsum board systems.
- K. Sound attenuation insulation: USG Thermaflex 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:
    - a. Install steel studs per schedule or at spacing indicated with bottom and top runner tracks anchored to substrates. Provide flexible ceiling/runner tracks at full height partitions.
    - b. Terminate partition stud system 4" above ceilings, except where indicated to be extended to structural support or roof deck above. Brace tops of partition framing to structure or roof deck at maximum 4'-0" on center spacing.
    - c. Frame openings more than 2'-0" wide with two 20 gage studs at each jamb.
    - d. Coordinate the installation of supplementary blocking and nailers, provided under Section 06100 work, to support shelving, millwork, toilet accessories, and similar work that cannot be adequately supported by gypsum board alone.
- B. Application and Finishing: Install and finish gypsum board to comply with ASTM C 840 and Gypsum Association GA 216 "Recommended Specifications for the Application and Finishing of Gypsum Board."
  - 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 edges 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 to 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 contaminants from steel surface. Uniformly roughen surface with 150 grit paper. Remove all dust before solvent cleaning by the use of stiff bristle brush.
 

Prime: (1) coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Finish: (2) coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Application: Conventional or HVLP (high volume low pressure)

Exterior and Interior Gas Piping:

- Preparation: Remove all visible oil, grease, soil, rust and all other soluble contaminants from pipe surface. Remove all dust before solvent cleaning by the use of stiff bristle brush.
 

Prime: (1) Coat PPG; 4020PF Series Pitt-Tech Plus Int/Ext DTM Acrylic Industrial Primer (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Finish: (2) Coats PPG; 4216 Plus HP Series Pitt-Tech Plus Semi-Gloss DTM Industrial Enamels (90 g/L VOC): Applied at a dry film thickness of not less than 2.0 to 4.0 mils.

Application: Conventional or HVLP (high volume low pressure)

Exterior Patio Railing:

- Preparation: Remove all visible oil, grease, soil, loose paint, rust and all other soluble contaminants 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 Mastc (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 Mastc (250 g/L VOC): Applied at a dry film thickness of not less than 3.0 to 5.0 mils.

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

Exterior Prefinished Metal Wall Panels:

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

- Note: Some selected areas of bare concrete surfaces will require (1) coat of Perma Crete 4-603Xl 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 Mastc 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 Mastc (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; Amershold VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

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

Exterior Galvanized Metal:

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

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

Owner Option 1:

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

Owner Option 2:

- Prime: (1) coat PPG; 97-245 Pitt-Guard DTR Epoxy Mastc 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 Mastc (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; Amershold VOC Aliphatic Urethane (84 g/L VOC): Applied at a dry film thickness of not less than 5.0 to 8.0 mils.

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

Exterior CMU Primer:

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

Field Preparation:

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

Prime:

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

Application:

- Brush, Roll or Spray

Exterior Stucco/EIFS Surfaces (including wet areas):

- Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
 

Prime: (1) coat PPG; 4-603 Perma-Crete Alkali Resistant Primer (100 g/L VOC): Applied at a dry film thickness of not less than 1.2 to 1.9 mils.

Finish: (2) coats PPG; 4-22 Perma-Crete Hi-Build Acrylic (100 g/L VOC): Applied at a dry film thickness of not less than 3.2 to 5.8 mils.

Application: Airless spray with back roll using 3/4" nap roller.

Exterior Wood:

- Preparation: Remove all visible oil, grease, soil and all other foreign substances with cleaning solutions and/or scrapers. Allow to dry and sand all areas that need smoothing and dust off.
 

Prime: (1) coat PPG; 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.

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. (Reprints only require spot prime on bare metal surfaces.)

Finish: (2) coats PPG; V-50-410 Breakthrough Semi-gloss Sheen Acrylic (250 g/L VOC): Applied at a dry film thickness of not less than 1.4 to 2.0 mils.

Application: Conventional spray, HVLP or Airless spray. Touch-ups shall be done with conventional spray or airless equipment or brush or roller.

Interior Wood Trim and Plywood - Clear Polyurethane Finish:

- (Plywood finishes shall be shop applied in a controlled environment)
- Shop Preparation: Scuff sand between coats.
- Shop Finish: (2) coat, ML Campbell Krystal conversion varnish, Clear Dull Sheen
- Application: Spray
- Field Preparation: All cuts in field are to be sanded smooth. Scuff sand between coats.
- Field Finish: (2) coat, ML Campbell High Performance Pre-Cat Lacquer, Clear Dull Sheen
- Application: Wipe on with t-shirt rag.

Exterior Traffic Safety Marking:

- Preparation: All surfaces must be clean, dry and free from oil, grease, antifreeze, loose sand, aggregate and chipping/peeling existing striping. Any curing compounds used on new concrete must be mechanically abraded off prior to striping. When striping on freshly sealed surfaces use caution as some sealers can affect the curing and adhesion of traffic paint. When in doubt, always test adhesion.
- For complete drying and minimum dirt retention when striping parking lots, the lots should be closed to traffic for two hours minimum after painting. New asphalt and concrete should be allowed to cure for a minimum of 14 days to maximize adhesion and durability.

Owner Option 1:

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

Owner Option 2:

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

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

- Airless Spray: Pressure 2000 psi, tip 0.015" - 0.021" Spray equipment must be handled with due care and in accordance with manufacturer's recommendation. High-pressure injection of coatings into the skin by airless equipment may cause 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-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG White Zone Marking	Satin	N/A
Exterior Traffic Safety Marking	PPG A-2886B Type II, Low VOC Acrylic Fast Dry Solvent	PPG Yellow Zone Marking	Satin	N/A
Exterior Galvanized Metal, Flashing and Prefinished Metal Wall Panels	PPG Pitt-Tech Plus Satin Acrylic Finish 90-1110 Series	PPG 1001-6 "Knight's Armor"	Satin	N/A
Exterior 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



# GENERAL NOTES

STENCILS FOR PARKING MARKINGS AVAILABLE FROM PAVEMENT STENCIL COMPANY, PHONE: (800) 250-6547, 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.

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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

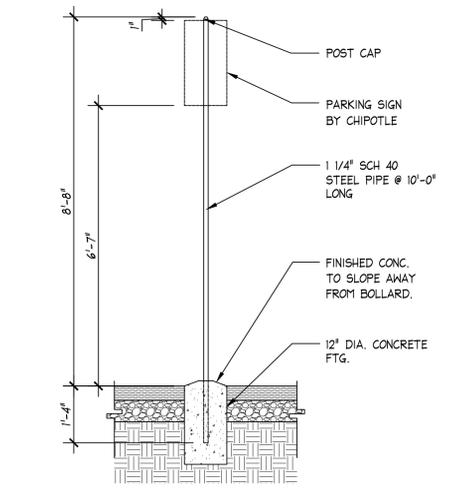
1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

03.08.24  
date

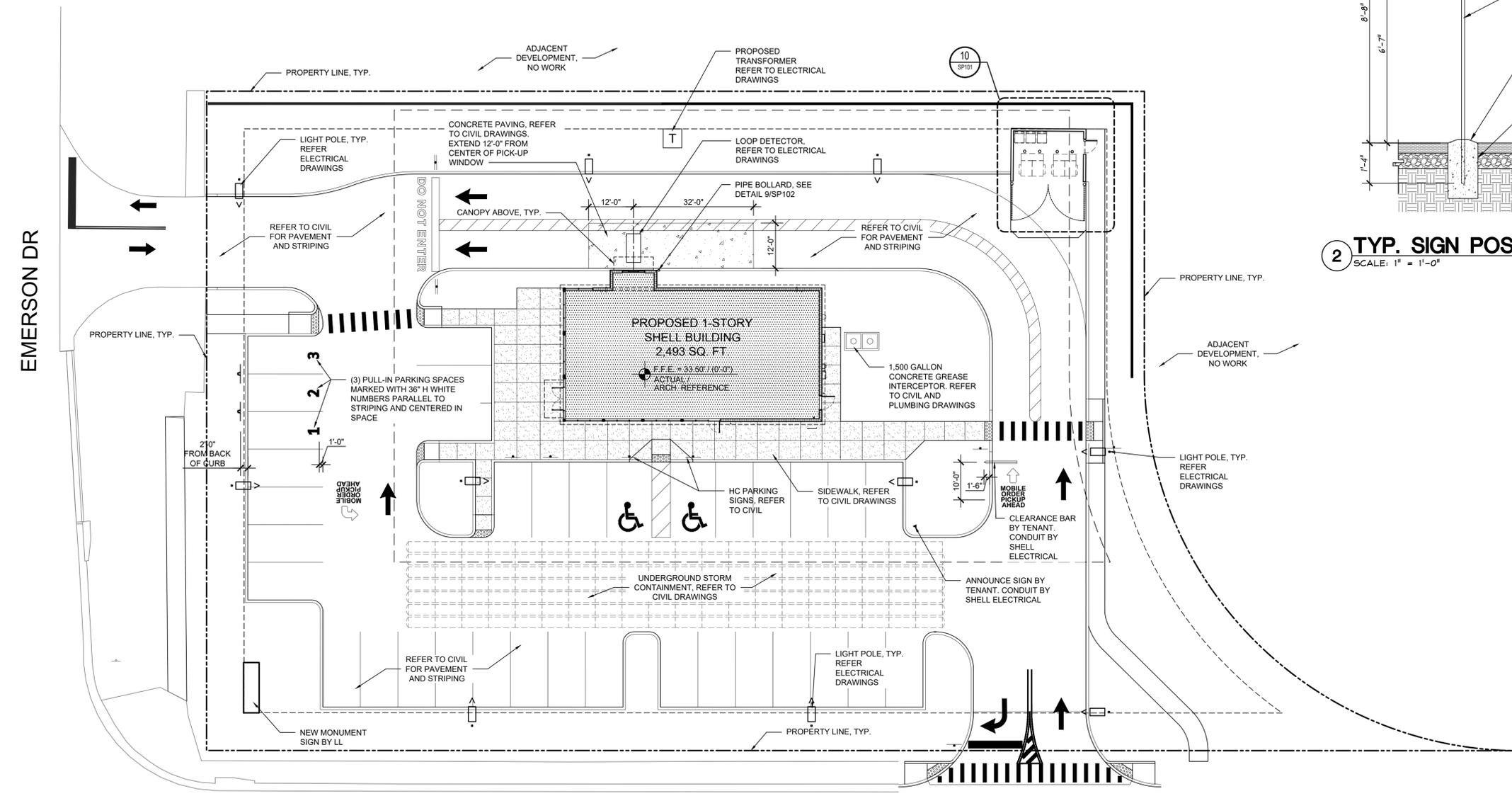
23068  
comm. no.

ARCHITECTURAL  
SITE PLAN

SP100



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



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

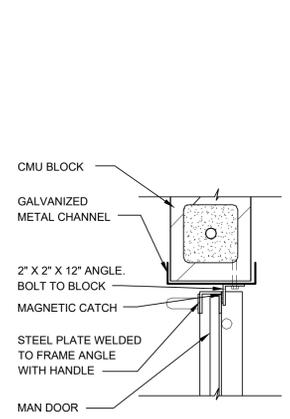


EMERSON DR

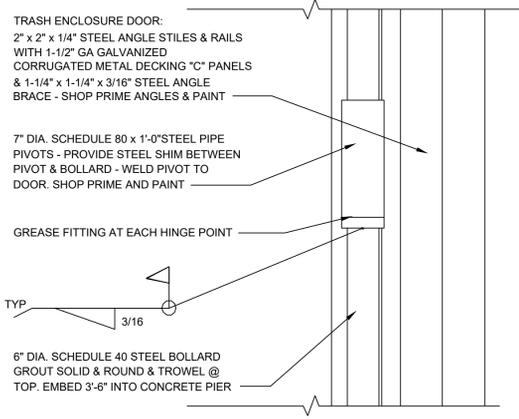
MALABAR RD

# DUMPSTER ENCLOSURE FINISH SCHEDULE

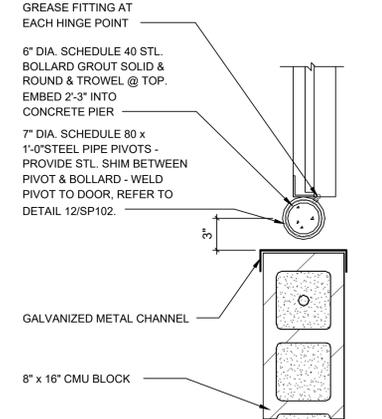
MATERIAL	COLOR/FINISH
CMU WITH STUCCO	EF-2, REFER TO A300 FOR FINISH SCHEDULE
METAL COPING	PREFINISHED TO MATCH PAINTED CMU
CORRUGATED METAL & DOOR FRAMES	PAINTED 'KNIGHTS ARMOR' PPG 1001-6



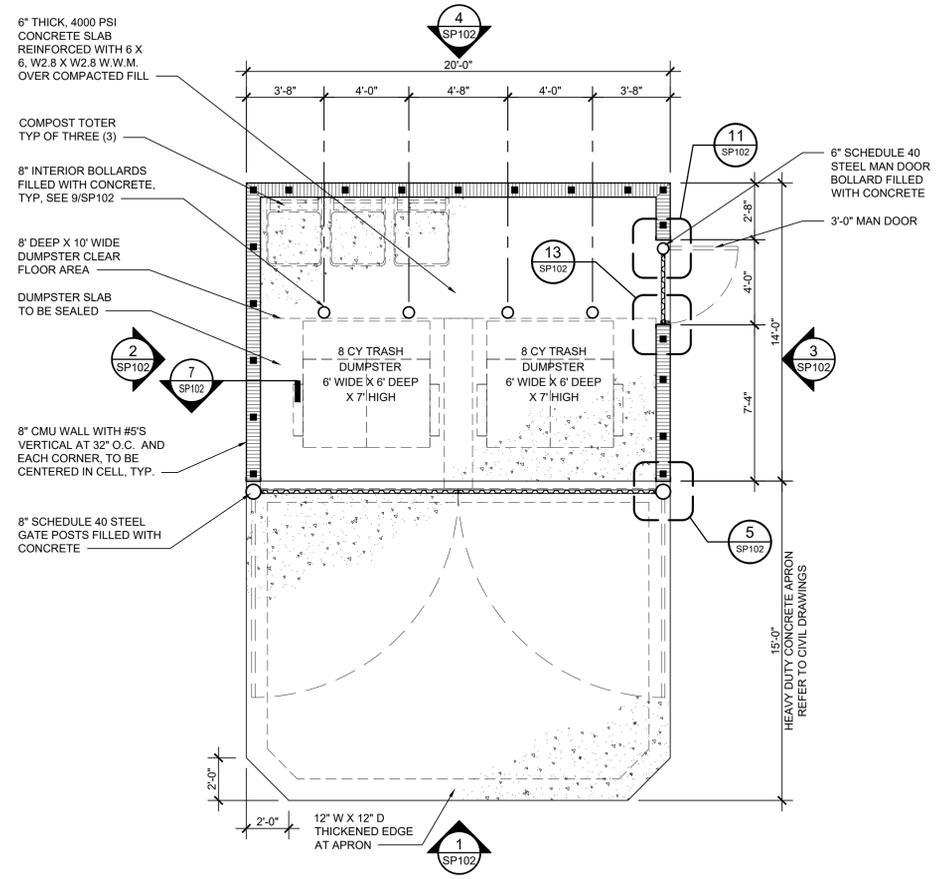
**13 MAN DOOR LATCH DETAIL**  
SCALE: 1/2" = 1'-0"



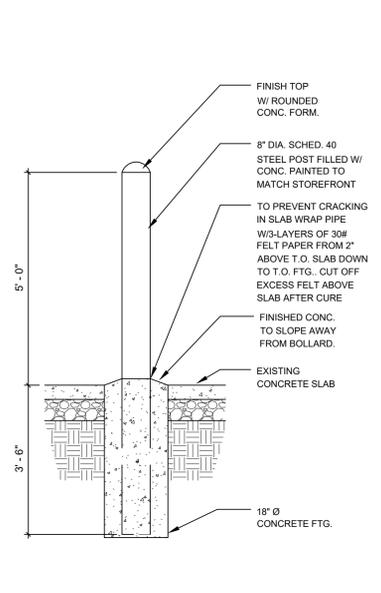
**12 MAN DOOR PIVOT**  
SCALE: 1/2" = 1'-0"



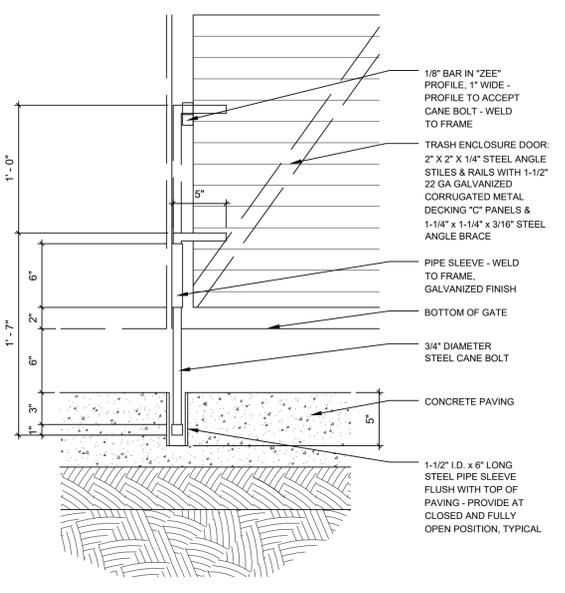
**11 MAN DOOR PIVOT DETAIL**  
SCALE: 1/2" = 1'-0"



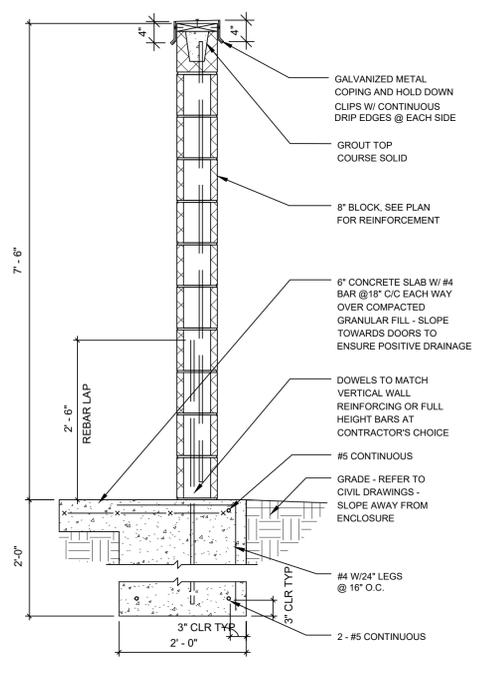
**10 DUMPSTER ENCLOSURE PLAN**  
SCALE: 1/4" = 1'-0"



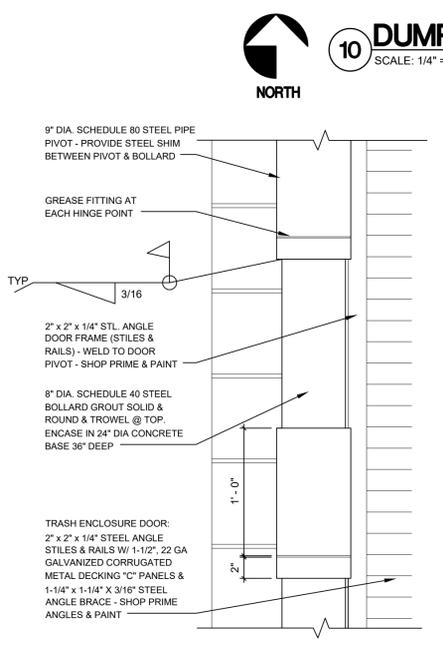
**9 BOLLARD DETAIL**  
SCALE: 1/2" = 1'-0"



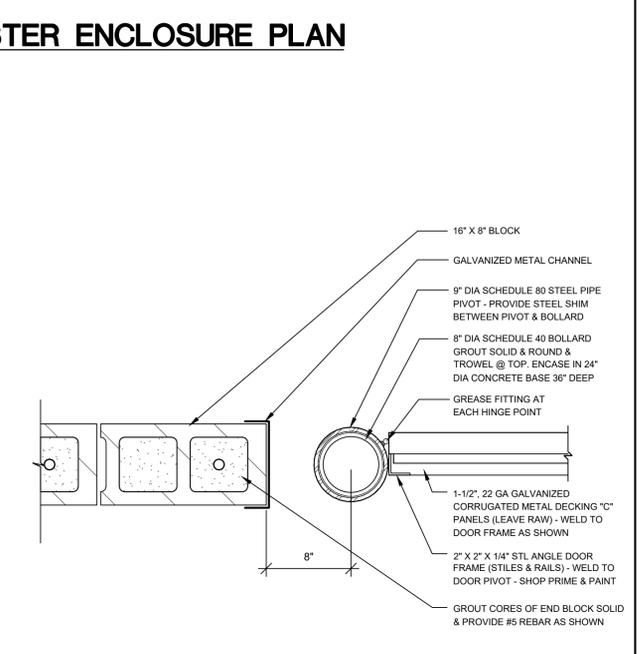
**8 TYP. CANE BOLT DETAIL**  
SCALE: 1 1/2" = 1'-0"



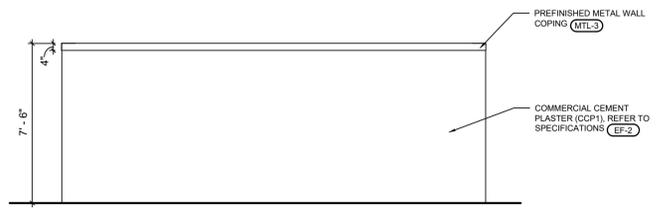
**7 DUMPSTER DETAIL**  
SCALE: 3/4" = 1'-0"



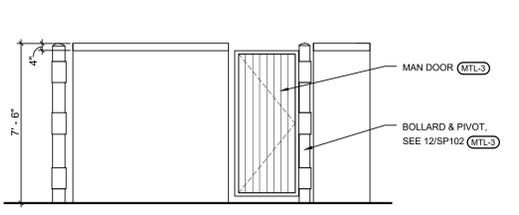
**6 DUMPSTER DOOR PIVOT**  
SCALE: 1 1/2" = 1'-0"



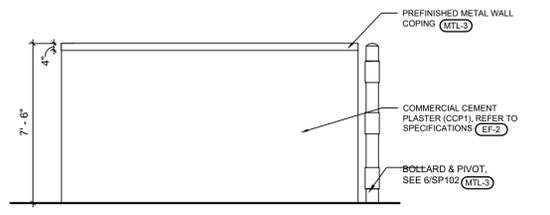
**5 GATE HINGE DETAIL**  
SCALE: 1 1/2" = 1'-0"



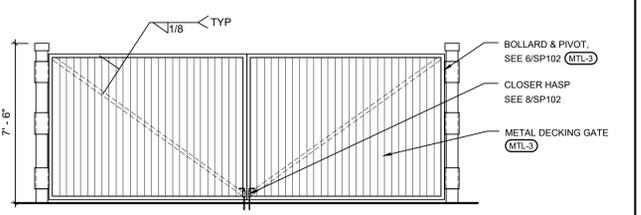
**4 DUMPSTER ELEVATION**  
SCALE: 1/4" = 1'-0"



**3 DUMPSTER ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 DUMPSTER ELEVATION**  
SCALE: 1/4" = 1'-0"



**1 DUMPSTER ELEVATION**  
SCALE: 1/4" = 1'-0"



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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  
23068  
comm. no.

DUMPSTER PLAN AND DETAILS

SP102

no.	date	revision descriptions

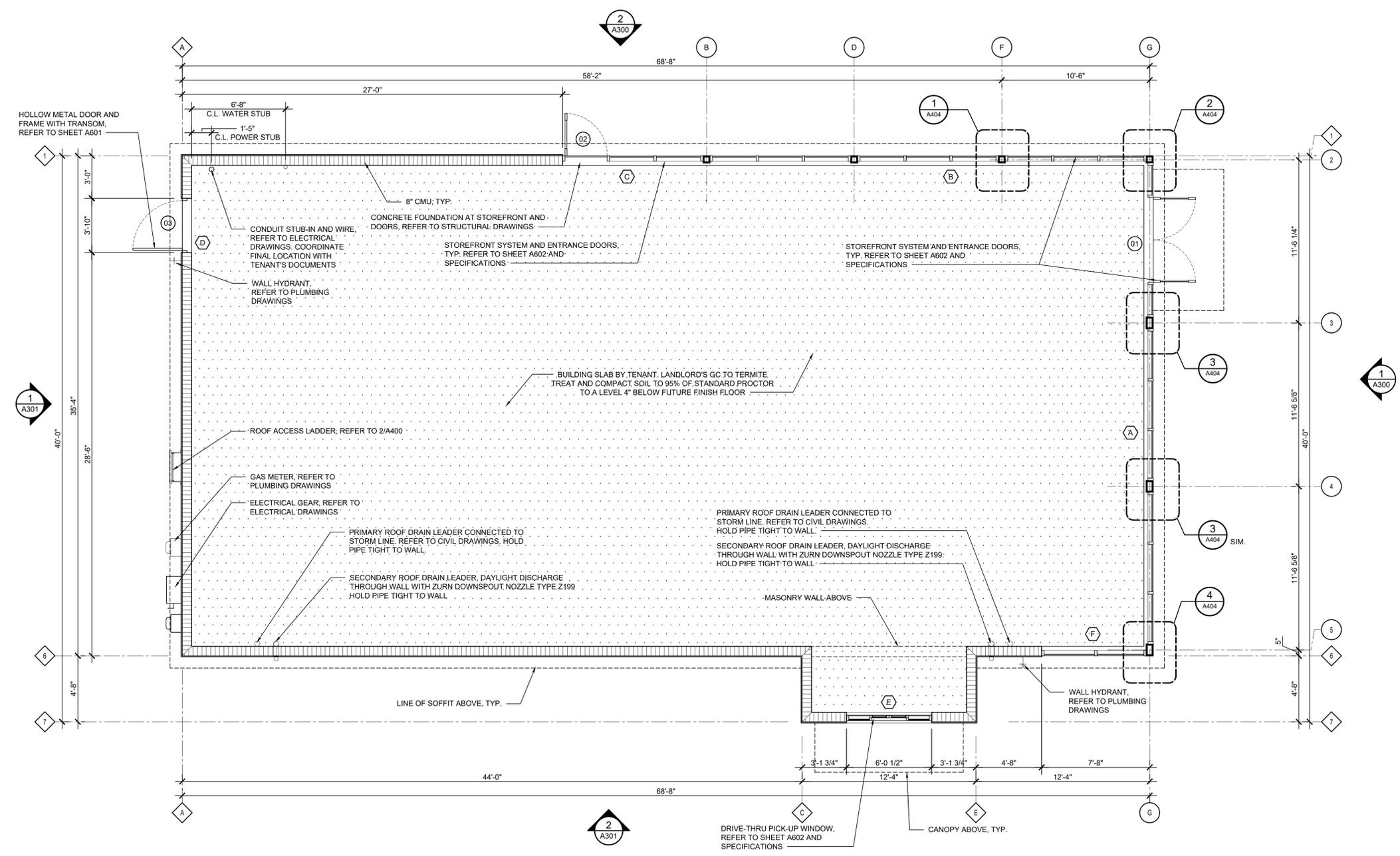
CHIPOTLE MEXICAN GRILL  
BUILDING SHELL  
1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

03.08.24  
date

23068  
comm. no.

FLOOR PLAN

A100



**FLOOR PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

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

no.	date	revision descriptions

**CHIPOTLE MEXICAN GRILL  
BUILDING SHELL**

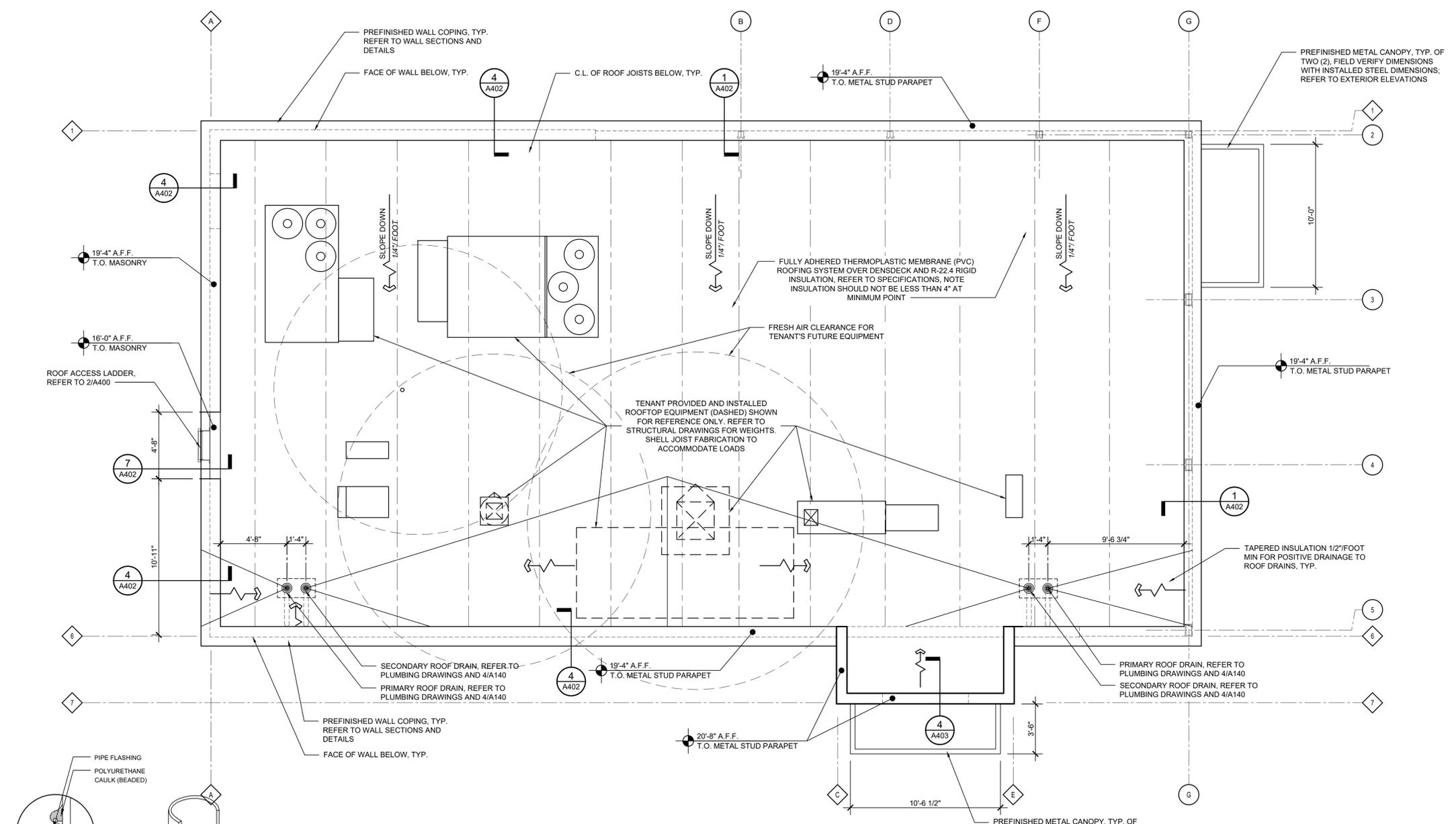
1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

03.08.24  
date

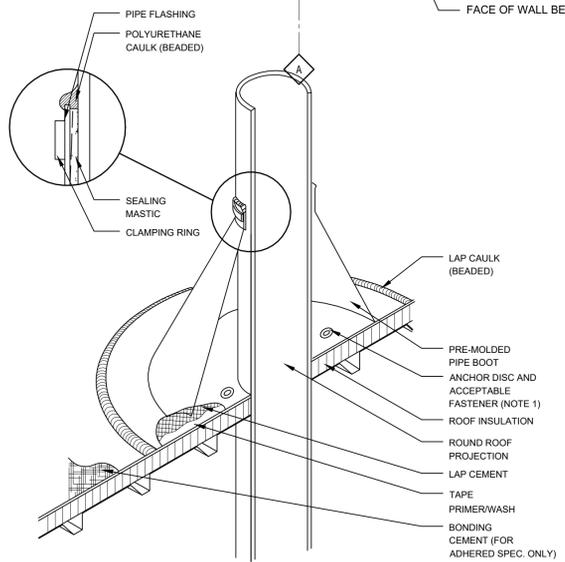
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comm. no.

ROOF PLAN  
AND DETAILS

**A140**

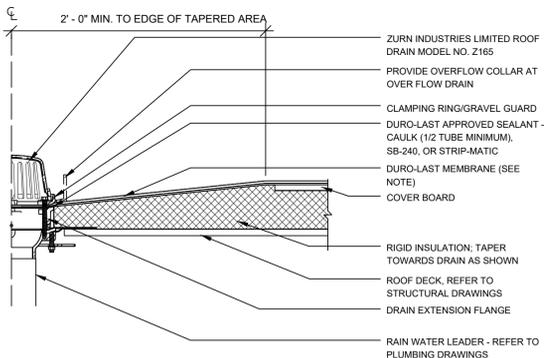


**1 ROOF PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH



- NOTE:
1. WITH MECHANICALLY FASTENED OR BALLASTED SPECIFICATIONS, MEMBRANE MUST BE MECHANICALLY ATTACHED WITH 2" (50 mm) ANCHOR DISC AND ACCEPTABLE FASTENERS (MINIMUM OF 4 PER PIPE).
  2. DO NOT OVERLAP THE FLANGES FROM ADJACENT PIPE FLASHINGS.
  3. ANY SEAM UNDER BOOT FLANGE TO BE TREATED AS T-JOINT.
  4. BOTH SURFACES TO BE MATED MUST BE CLEANED WITH TAPE PRIMER/WASH TAPE PRIMER/WASH MUST BE COMPLETELY DRY AND TACK FREE BEFORE APPLYING LAP CEMENT.

**2 BOOT DETAIL**  
SCALE: 1 1/2" = 1'-0"



- NOTE:
- DURO-LAST MEMBRANE MUST EXTEND BEHIND THE INSIDE OF THE CLAMPING RING. BE SURE THE OPENING WHERE WATER PASSES THROUGH THE MEMBRANE IS NOT SMALLER THAN THE OPENING OF THE DRAIN.

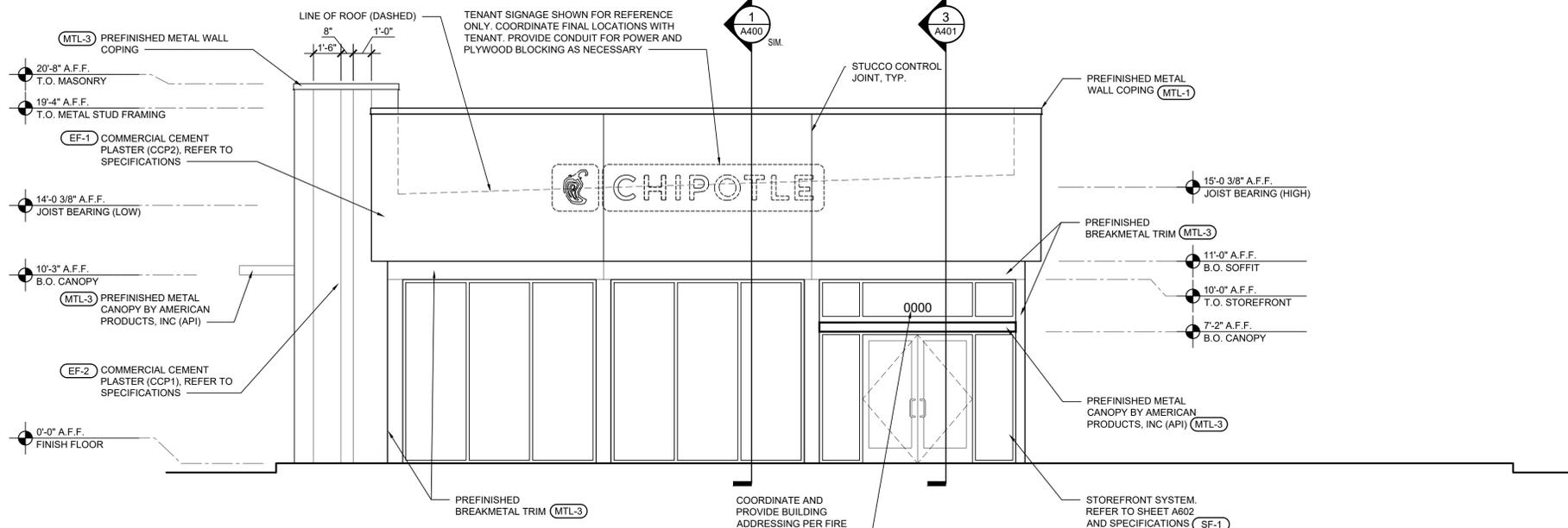
**3 ROOF DRAIN DETAIL**  
SCALE: 1 1/2" = 1'-0"

**PRE-ENGINEERED  
CANOPY NOTE:**

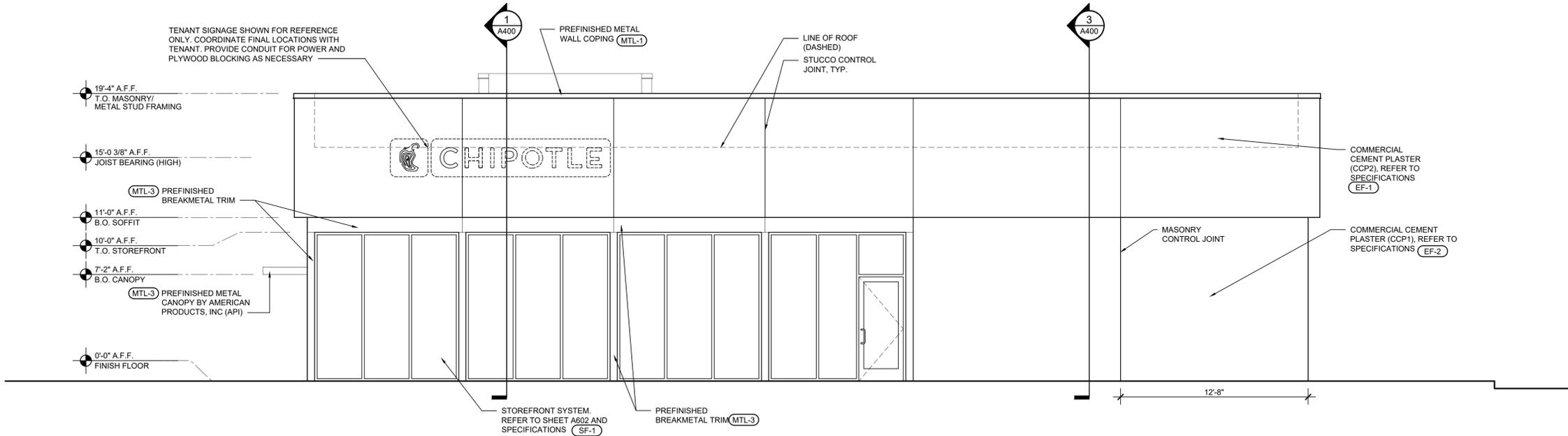
THE GENERAL CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL TO THE BUILDING DEPARTMENT ENGINEERED CANOPY SHOP DRAWINGS SHOWING CONNECTIONS TO THE BUILDING

**GENERAL NOTES**

1. SEE STRUCTURAL DRAWINGS FOR LOCATIONS AND SIZE OF STRUCTURAL ROOF REINFORCEMENTS.
2. COORDINATE ALL ROOF PENETRATIONS, FLASHING, AND REPAIR W/ TENANT ROOF TOP EQUIPMENT PRIOR TO COMMENCEMENT OF WORK.
3. 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.



**1 WEST ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 SOUTH ELEVATION**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

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.

**SIGNAGE NOTES:**

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.

**FACILITY ADDRESS REQUIREMENTS:**

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.  
ADDRESS NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. NUMERALS SHALL BE AT LEAST 6 INCHES IN HEIGHT.  
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.  
ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS.

**CRITICAL NOTES**

**WALL FINISHES AT PARAPET RETURNS:**  
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.

THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE WALL FINISHES WITH APPLICABLE TRADES PRIOR TO INSTALLATION. UNDER NO CIRCUMSTANCES WILL EXPOSED ROOF MEMBRANE BE ACCEPTED AS A WALL FINISH AT THE PARAPET RETURN CONDITIONS NOTED.

**WALL COUNTERFLASHING DETAILS:**  
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.

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.

UNDER NO CIRCUMSTANCES WILL EXPOSED SINGLE-PLY MEMBRANE BE AN ACCEPTABLE MEANS OF FLASHING AT THE CONDITIONS NOTED.

**EXTERIOR FINISH NOTES**

**EXTERIOR INSULATION FINISH SYSTEM (EIFS) REQUIREMENTS:**

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.
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.
3. ALL FINISH COAT TEXTURES SHALL BE "SANDPEBBLE" UNLESS OTHERWISE NOTED.
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.
5. ALL GENERAL CONTRACTOR BIDS SHALL INCLUDE THE ABOVE STATED SYSTEMS / PRODUCTS IN THEIR BASE BIDS. SUBSTITUTIONS WILL BE CONSIDERED FOR APPROVAL BUT ONLY IF FULLY QUALIFIED IN BIDS INCLUDING COMPLETE SYSTEM / PRODUCT SPECIFICATIONS AND ASSOCIATED COSTS.

**ALUMINUM COPING AND DRIP EDGES:**

1. ALL COMPONENTS SHALL BE PREFINISHED WITH A FACTORY APPLIED, KYNAR 500 FINISH OR MANUFACTURER EQUIVALENT.

**ELECTRICAL GEAR, ROOF LADDER AND DOOR AND FRAME ON THE NORTH (REAR) FACADE:**

1. ALL COMPONENTS SHALL BE PAINTED PT-2.

**GENERAL:**

1. WHERE PLASTER REVEALS ARE NOT PREFINISHED, REVEALS SHALL BE PAINTED TO MATCH THE ADJACENT WALL COLOR UNLESS OTHERWISE NOTED.
2. ALL EXPOSED, BUILDING MOUNTED UTILITIES AND CONDUITS SHALL BE PAINTED TO MATCH THE ADJACENT WALL SURFACES UNLESS OTHERWISE NOTED.

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.

**EXTERIOR FINISH SCHEDULE**

CEMENT PLASTER / EIFS FINISHES - ACRYLIC DPR EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE. COLOR MATCH REFERENCED PAINTS

TAG	MANUFACTURER	SHERWIN WILLIAMS COLOR	DESCRIPTION
(EF-1)	DRYVIT	PPG "FOG"	CUSTOM DRYVIT COLOR
(EF-2)	DRYVIT	PPG "KNIGHT'S ARMOR"	CUSTOM DRYVIT COLOR

**PAINT FINISHES**

TAG	MANUFACTURER	COLOR	DESCRIPTION
(PT-2)	PPG	"KNIGHT'S ARMOR"	
(MTL-1)	TBD	MATCH EF-2 PPG "FOG"	
(MTL-3)	TBD	MATCH SF-1 "CHARCOAL"	

**ALUMINUM STOREFRONT / DRIVE-THRU PICK-UP WINDOW**

(SF-1)	KAWNEER	"CHARCOAL"	PERMAFLUOR COATING
(SF-2)	QUICKSERV	"BRONZE"	

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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  
23068  
comm. no.

EXTERIOR ELEVATIONS

**A300**

no.	date	revision descriptions

**CHIPOTLE MEXICAN GRILL  
BUILDING SHELL**

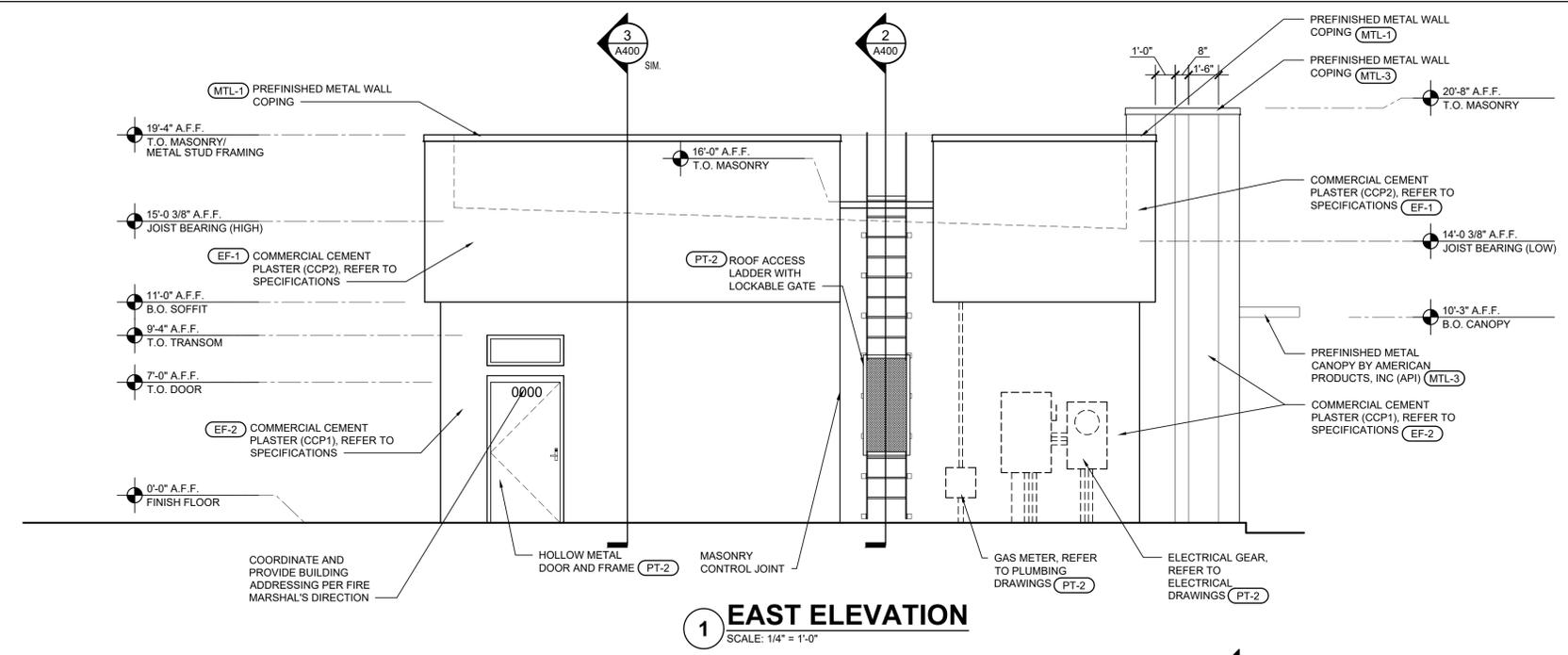
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PALM BAY, FLORIDA 32907

03.08.24  
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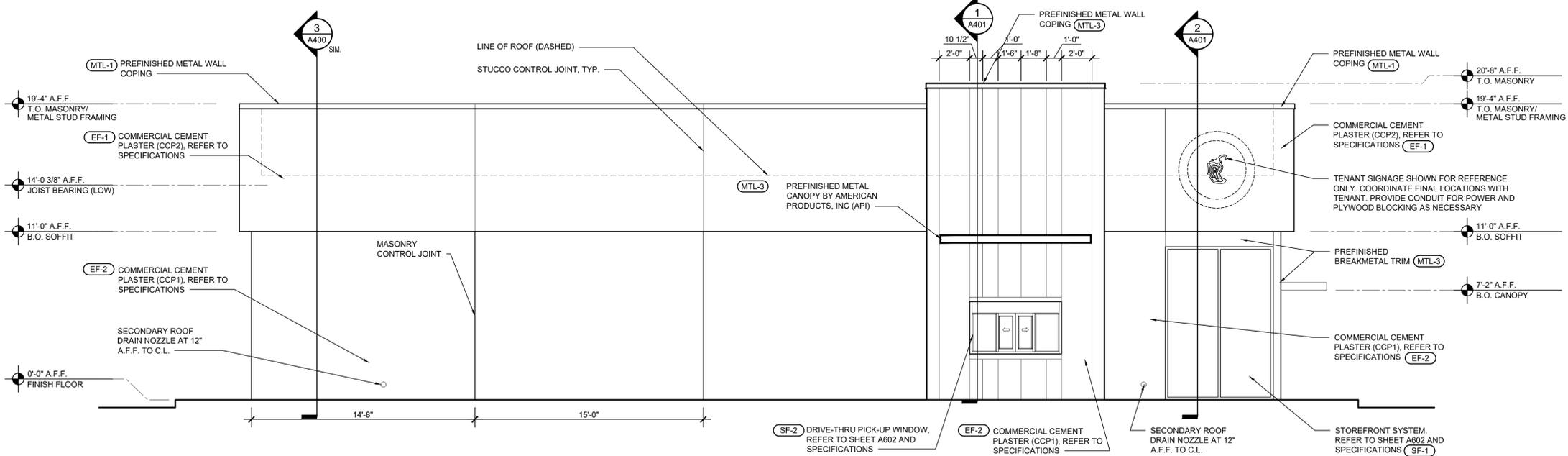
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comm. no.

**EXTERIOR  
ELEVATIONS**

**A301**



**1 EAST ELEVATION**  
SCALE: 1/4" = 1'-0"



**2 NORTH ELEVATION**  
SCALE: 1/4" = 1'-0"

**GENERAL NOTES**

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

**SIGNAGE NOTES:**

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

**FACILITY ADDRESS REQUIREMENTS:**

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

ADDRESS NUMBERS SHALL CONTRAST WITH THEIR BACKGROUND. NUMERALS SHALL BE AT LEAST 6 INCHES IN HEIGHT

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

ADDRESS NUMBERS SHALL BE ARABIC NUMERALS OR ALPHABET LETTERS

**CRITICAL NOTES**

**WALL FINISHES AT PARAPET RETURNS:**

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

THE SHELL GENERAL CONTRACTOR SHALL FULLY REVIEW AND COORDINATE WALL FINISHES WITH APPLICABLE TRADES PRIOR TO INSTALLATION. UNDER NO CIRCUMSTANCES WILL EXPOSED ROOF MEMBRANE BE ACCEPTED AS A WALL FINISH AT THE PARAPET RETURN CONDITIONS NOTED

**WALL COUNTERFLASHING DETAILS:**

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

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

UNDER NO CIRCUMSTANCES WILL EXPOSED SINGLE-PLY MEMBRANE BE AN ACCEPTABLE MEANS OF FLASHING AT THE CONDITIONS NOTED

**EXTERIOR FINISH NOTES**

**EXTERIOR INSULATION FINISH SYSTEM (EIFS) REQUIREMENTS:**

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

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

3. ALL FINISH COAT TEXTURES SHALL BE "SANDBLEBBLE" UNLESS OTHERWISE NOTED

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

5. ALL GENERAL CONTRACTOR BIDS SHALL INCLUDE THE ABOVE STATED SYSTEMS / PRODUCTS IN THEIR BASE BIDS. SUBSTITUTIONS WILL BE CONSIDERED FOR APPROVAL BUT ONLY IF FULLY QUALIFIED IN BIDS INCLUDING COMPLETE SYSTEM / PRODUCT SPECIFICATIONS AND ASSOCIATED COSTS

**EXTERIOR FINISH SCHEDULE**

CEMENT PLASTER / EIFS FINISHES - ACRYLIC DPR EIFS FINISH WITH INTEGRAL COLOR AND TEXTURE. COLOR MATCH REFERENCED PAINTS

TAG	MANUFACTURER	SHERWIN WILLIAMS COLOR	DESCRIPTION
EF-1	DRYVIT	PPG "FOG"	CUSTOM DRYVIT COLOR
EF-2	DRYVIT	PPG "KNIGHT'S ARMOR"	CUSTOM DRYVIT COLOR

PAINT FINISHES

TAG	MANUFACTURER	COLOR	DESCRIPTION
PT-2	PPG	"KNIGHT'S ARMOR"	

METAL COPING, TRIM AND CANOPIES

TAG	MANUFACTURER	COLOR	DESCRIPTION
MTL-1	TBD	MATCH EF-2 PPG "FOG"	
MTL-3	TBD	MATCH SF-1 "CHARCOAL"	

ALUMINUM STOREFRONT / DRIVE-THRU PICK-UP WINDOW

TAG	MANUFACTURER	COLOR	DESCRIPTION
SF-1	KAWNEER	"CHARCOAL"	PERMAFLUOR COATING
SF-2	QUICKSERV	"BRONZE"	

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GUY F. FABER  
FL License No. AR0015323  
seal

no.	date	revision descriptions

**CHIPOTLE MEXICAN GRILL  
BUILDING SHELL**

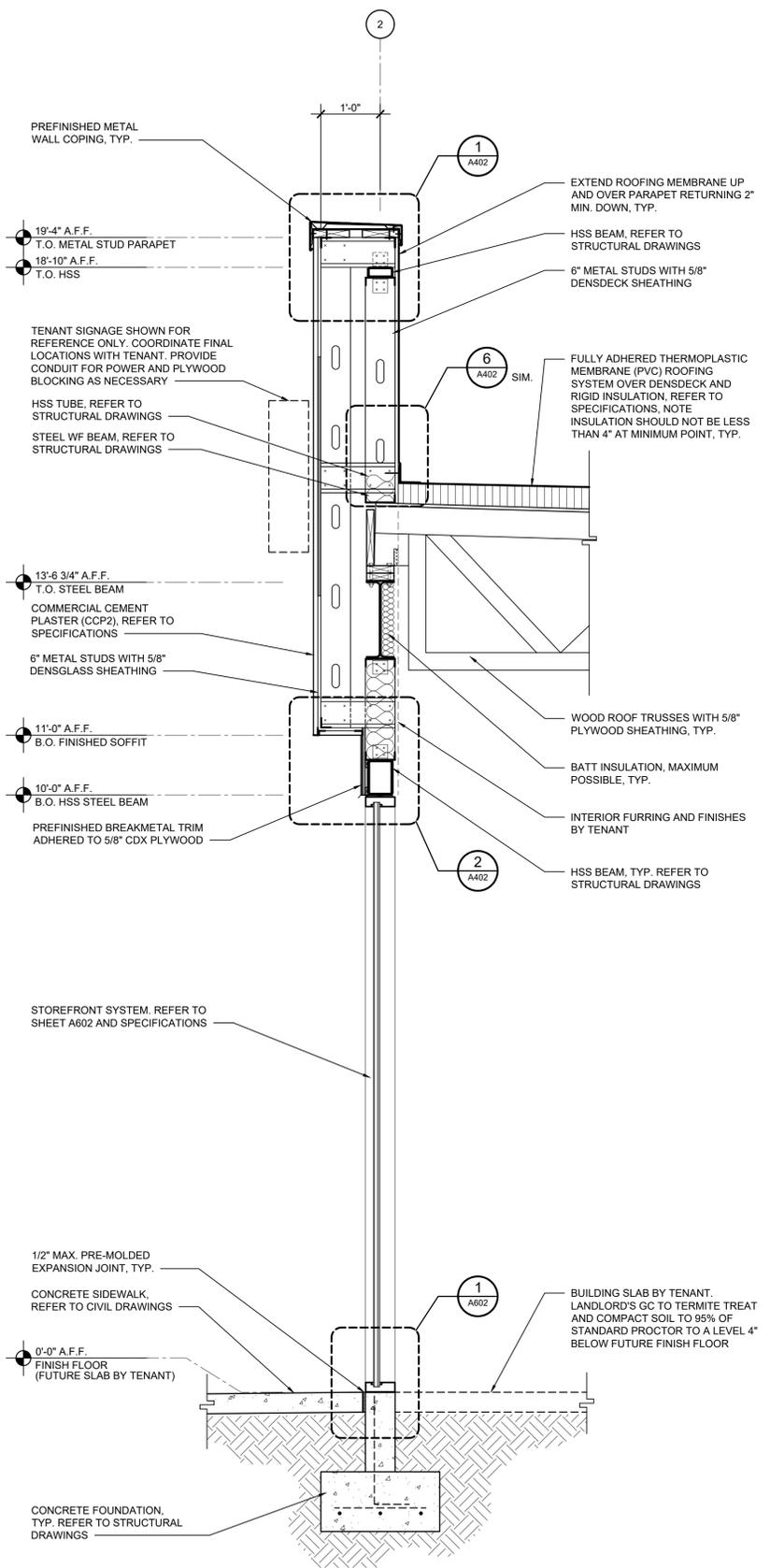
1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

03.08.24  
date

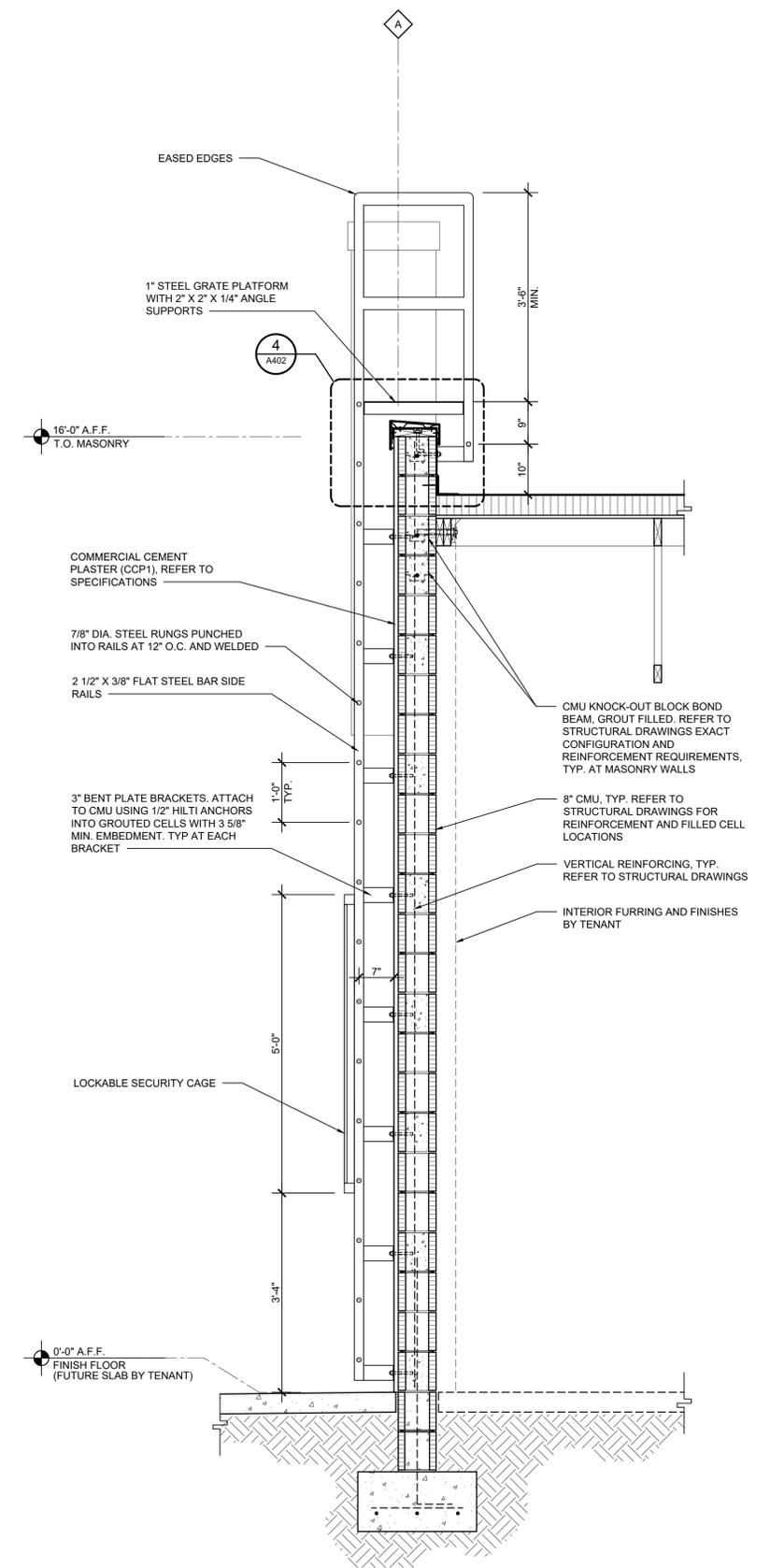
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comm. no.

WALL SECTIONS

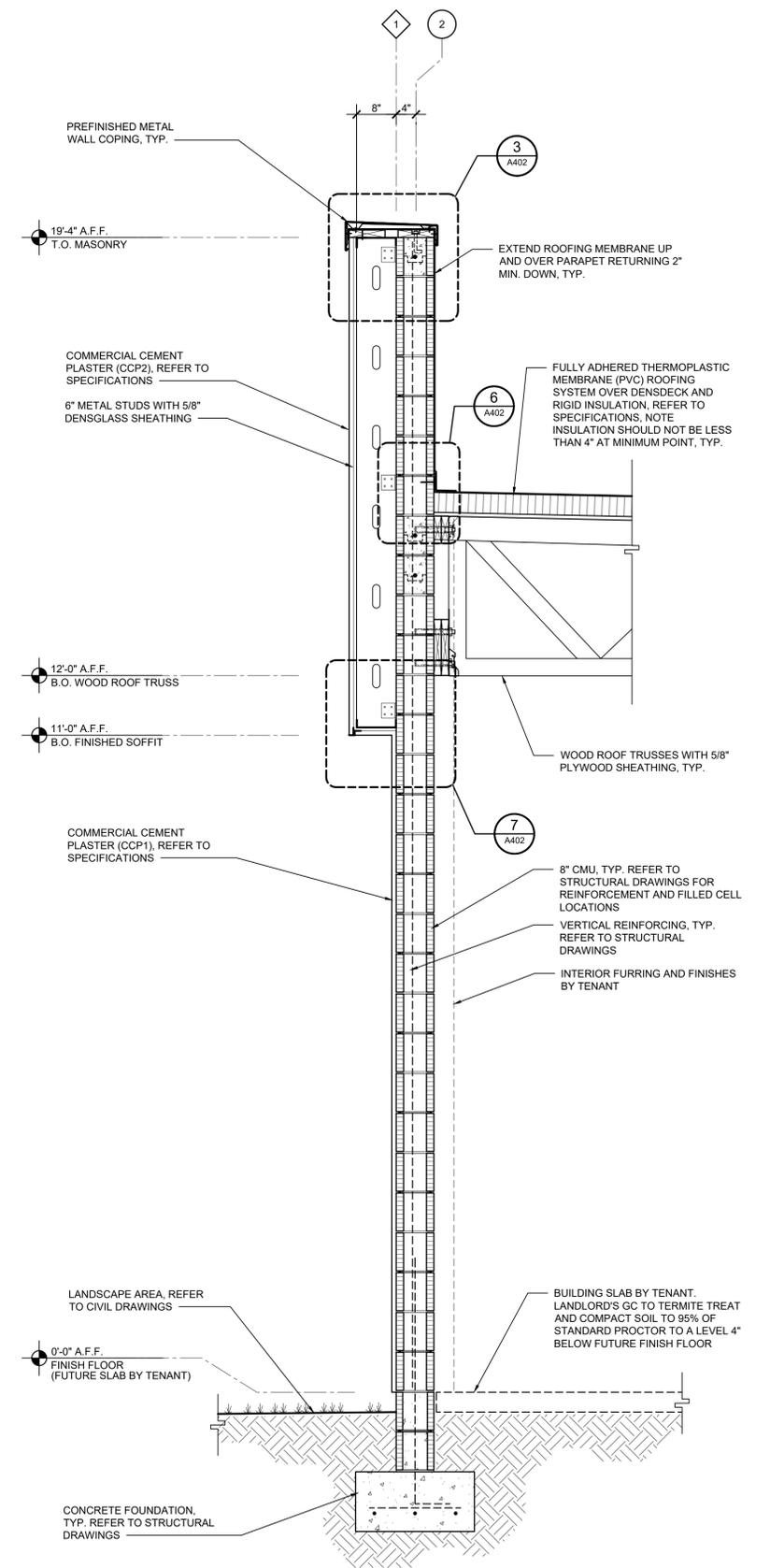
**A400**



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

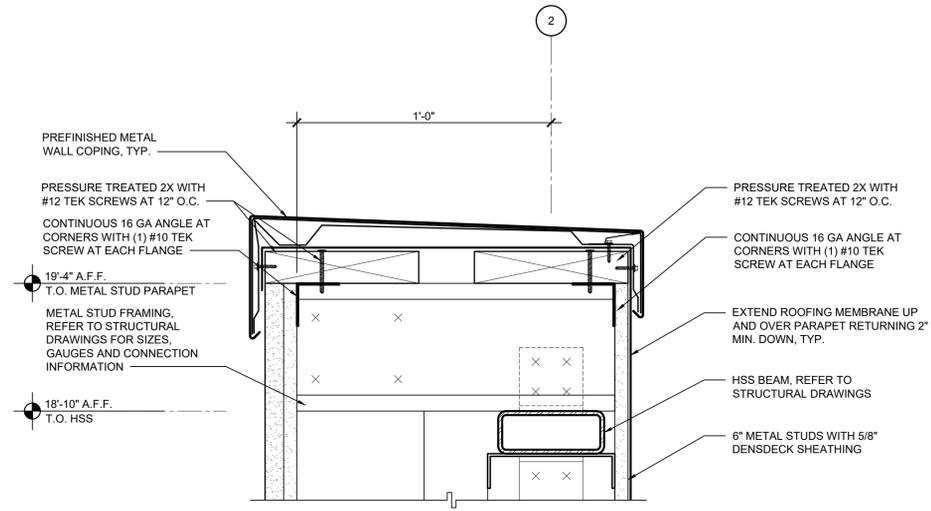


**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"

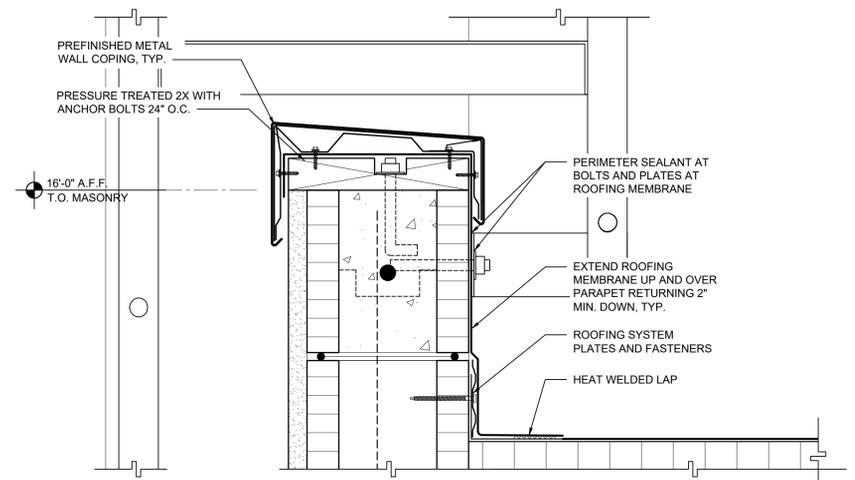


**3 WALL SECTION**  
SCALE: 3/4" = 1'-0"

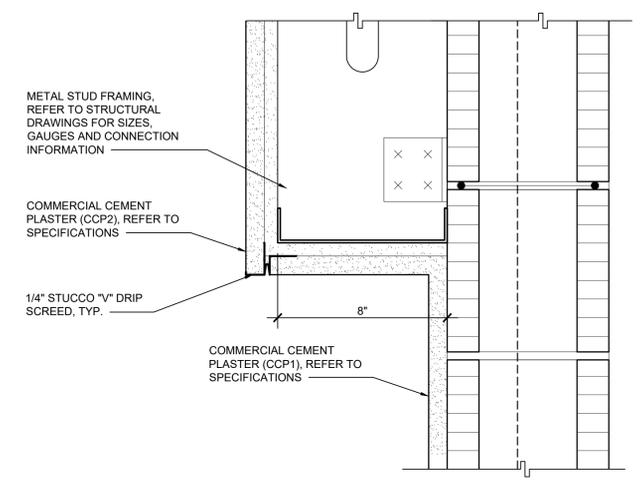




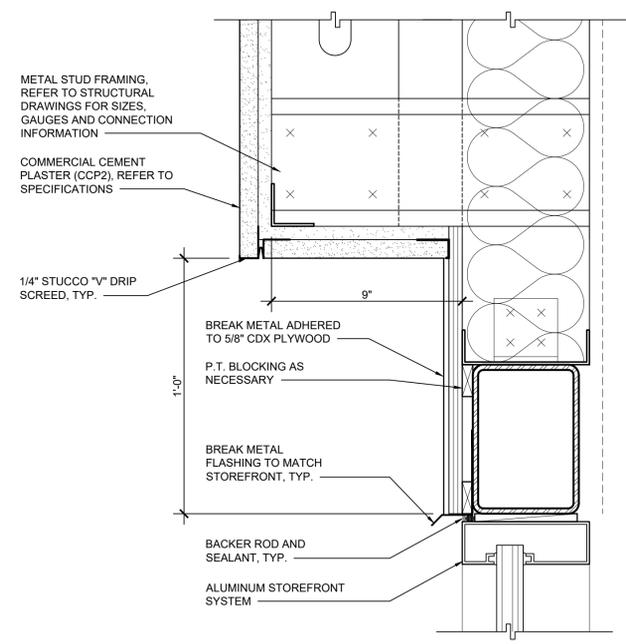
**1 SECTION DETAIL**  
SCALE: 3" = 1'-0"



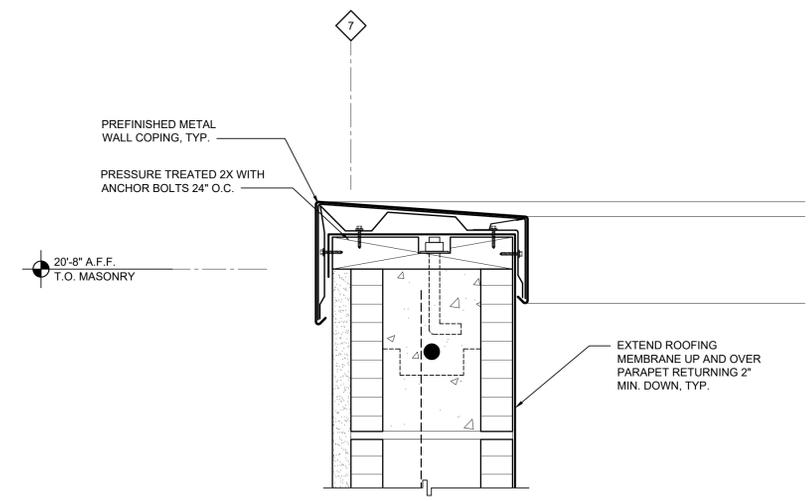
**4 SECTION DETAIL**  
SCALE: 3" = 1'-0"



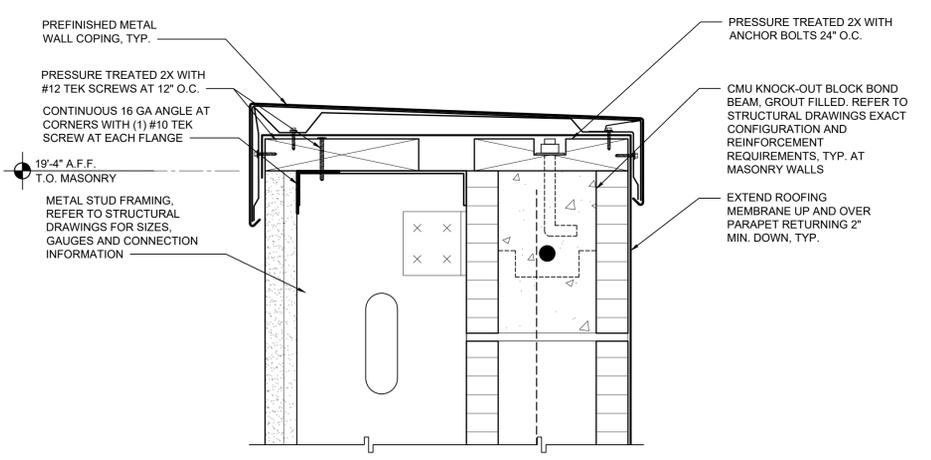
**7 SECTION DETAIL**  
SCALE: 3" = 1'-0"



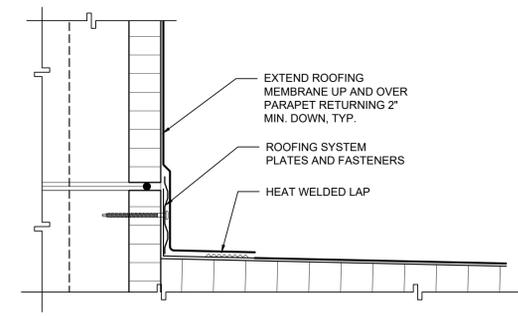
**2 SECTION DETAIL**  
SCALE: 3" = 1'-0"



**5 SECTION DETAIL**  
SCALE: 3" = 1'-0"



**3 SECTION DETAIL**  
SCALE: 3" = 1'-0"



**6 SECTION DETAIL**  
SCALE: 3" = 1'-0"

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no.	date	revision descriptions

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

03.08.24  
date  
23068  
comm. no.  
**SECTION DETAILS**

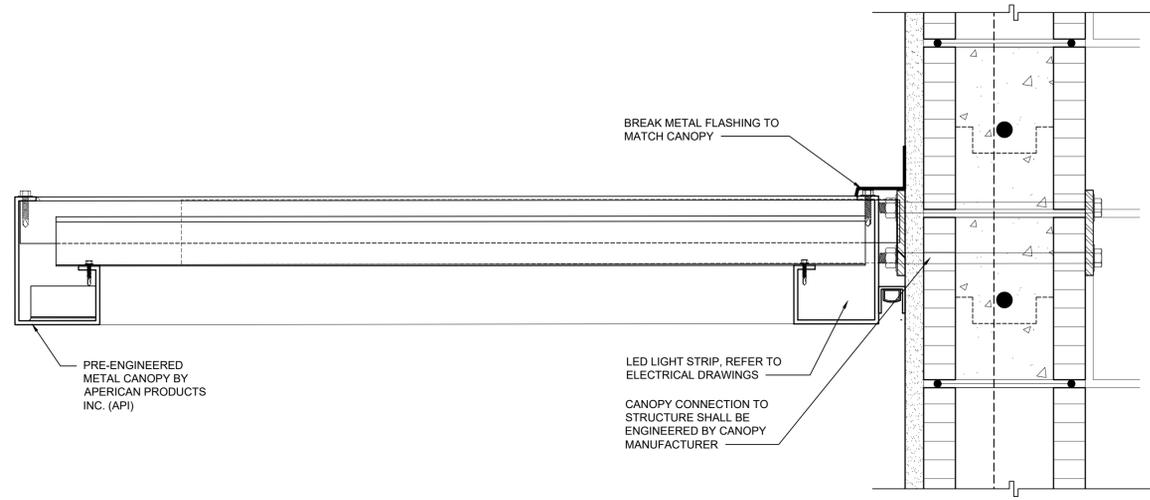
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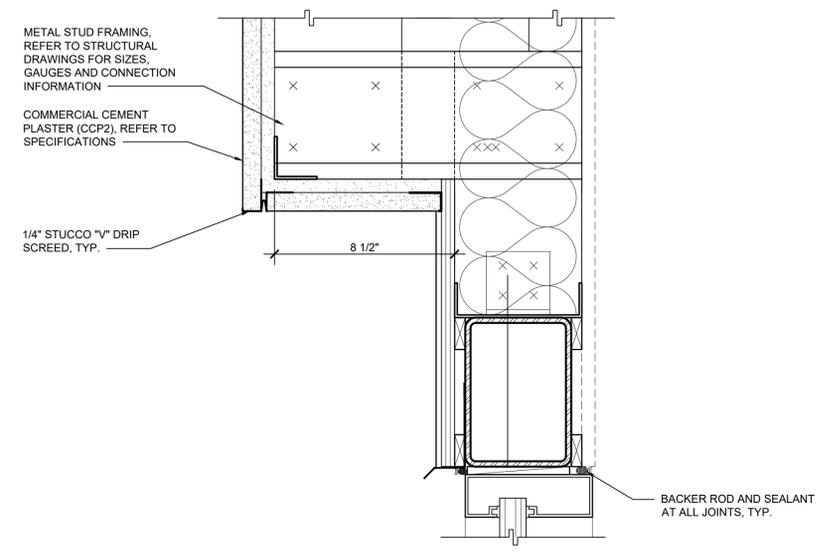
CHIPOTLE MEXICAN GRILL  
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03.08.24  
date  
23068  
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SECTION DETAILS

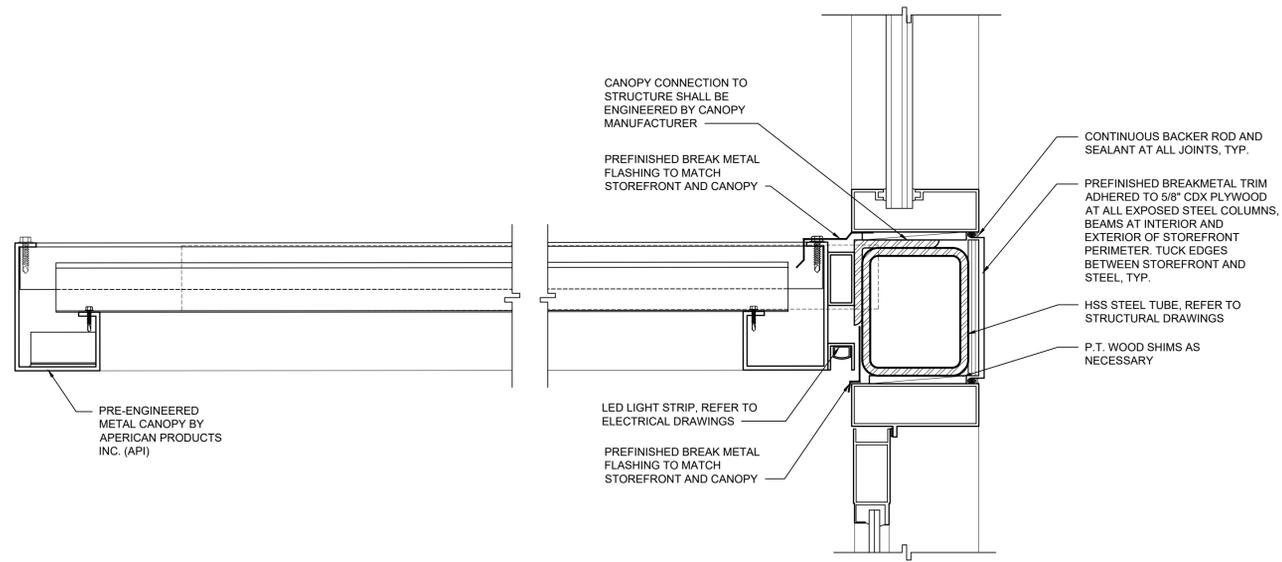
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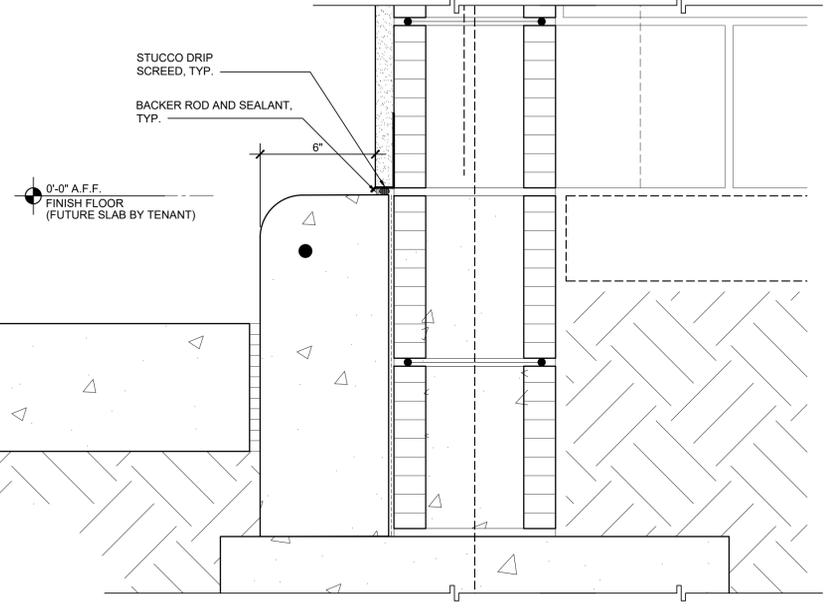
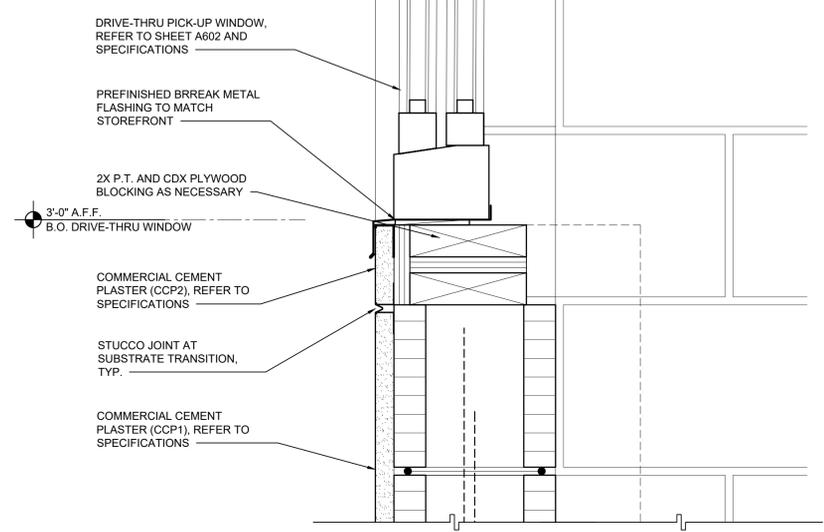
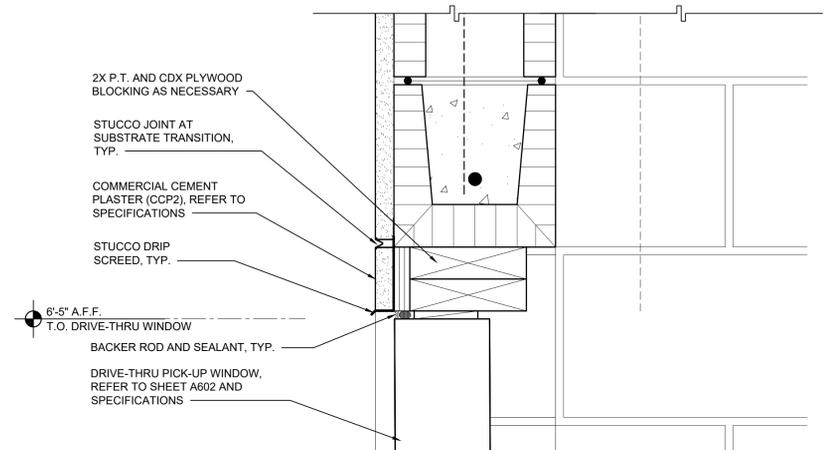
**1 SECTION DETAIL**  
SCALE: 3" = 1'-0"



**2 SECTION DETAIL**  
SCALE: 3" = 1'-0"

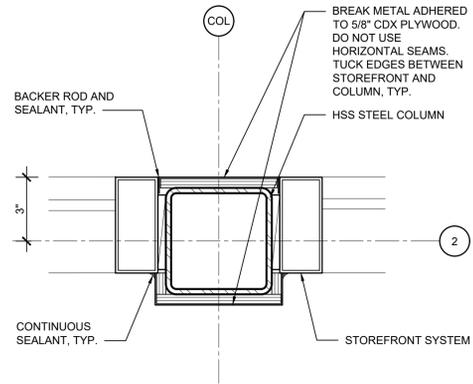


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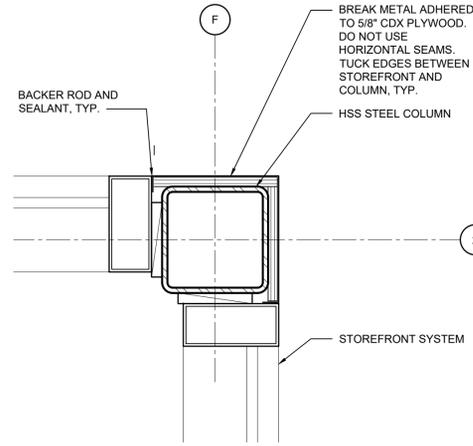


**4 SECTION DETAIL**  
SCALE: 3" = 1'-0"

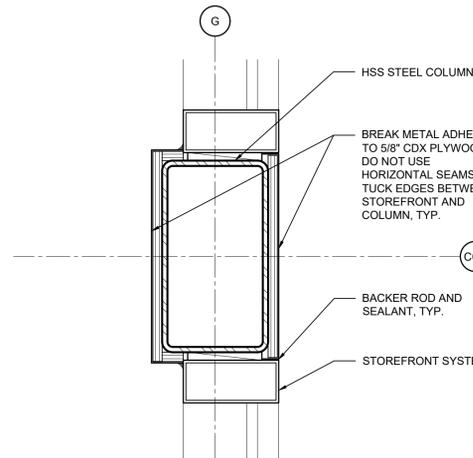
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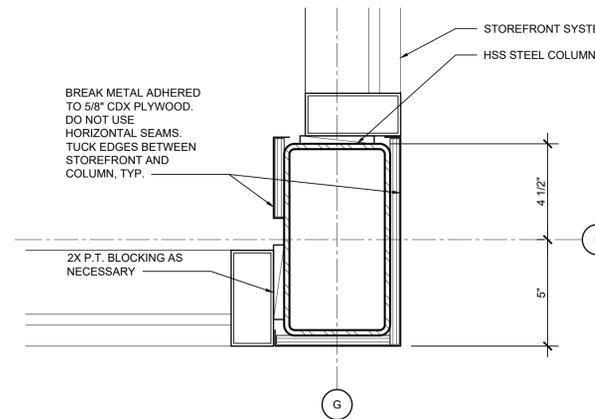
**1 PLAN DETAIL**  
SCALE: 3" = 1'-0"



**2 PLAN DETAIL**  
SCALE: 3" = 1'-0"



**3 PLAN DETAIL**  
SCALE: 3" = 1'-0"



**4 PLAN DETAIL**  
SCALE: 3" = 1'-0"

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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



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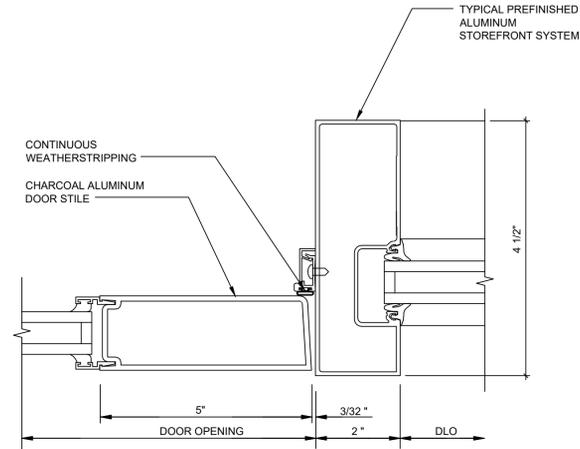
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comm. no.

PLAN DETAILS

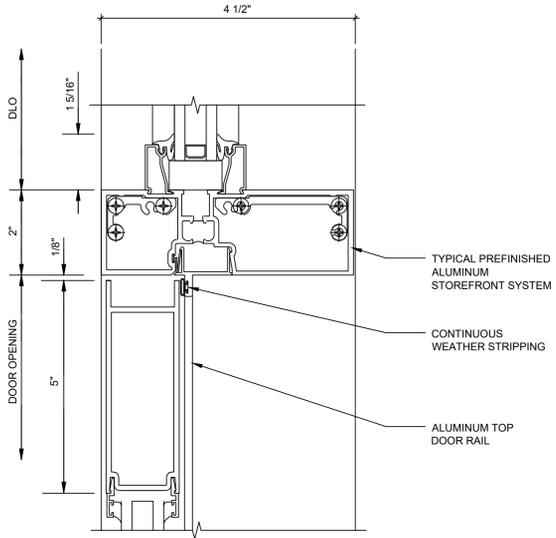
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# STOREFRONT DETAILS

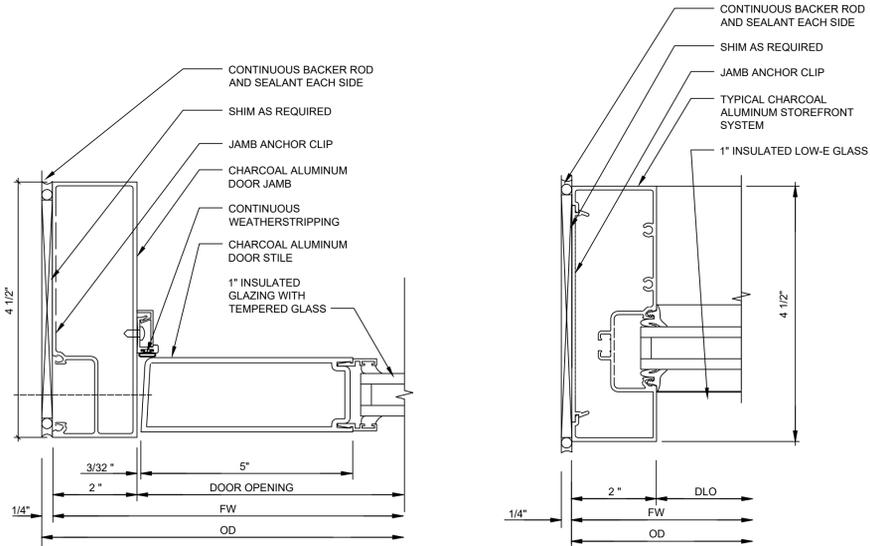


**9 STOREFRONT DOOR JAMB DETAIL**  
SCALE: 6" = 1'-0"

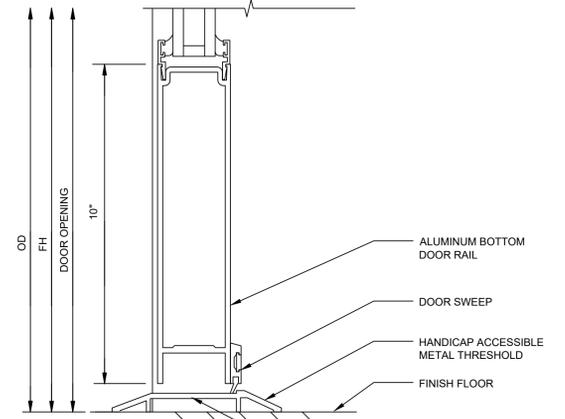


**8 STOREFRONT TRANSOM BAR DETAIL**  
SCALE: 6" = 1'-0"

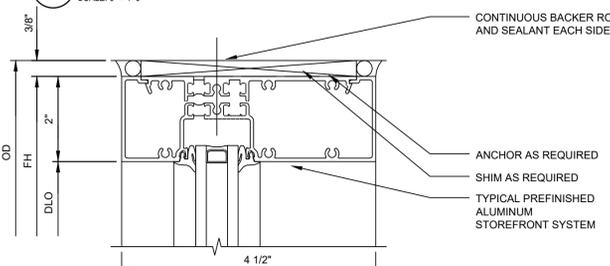
**NOTE:**  
DETAILS SHOWN GENERALLY REPRESENT THE DESIGN INTENT OF THE DOOR AND STOREFRONT SYSTEMS. GRAPHICAL VARIATIONS MAY OCCUR DEPENDING ON SYSTEM TYPE AND MANUFACTURER. THE SPECIFICATIONS, SCHEDULES AND FLORIDA PRODUCT DATA SHALL GOVERN.



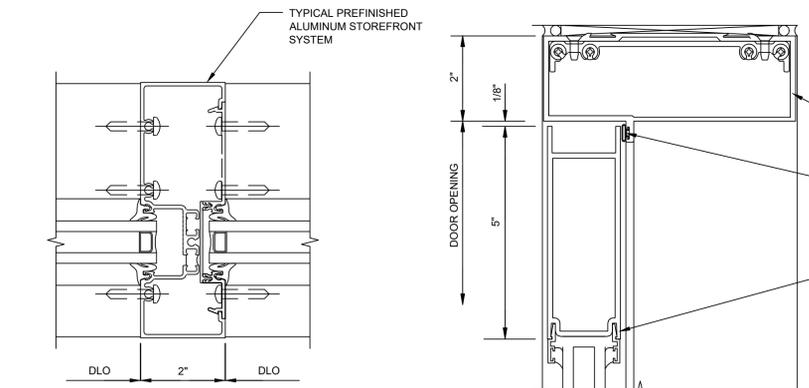
**6 STOREFRONT DOOR JAMB DETAIL** SCALE: 6" = 1'-0"  
**4 STOREFRONT JAMB DETAIL** SCALE: 6" = 1'-0"



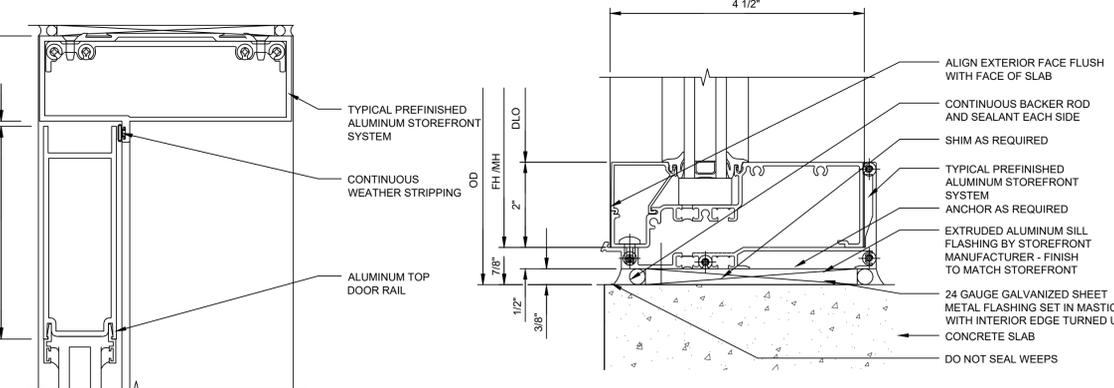
**7 STOREFRONT THRESHOLD DETAIL**  
SCALE: 6" = 1'-0"



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



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



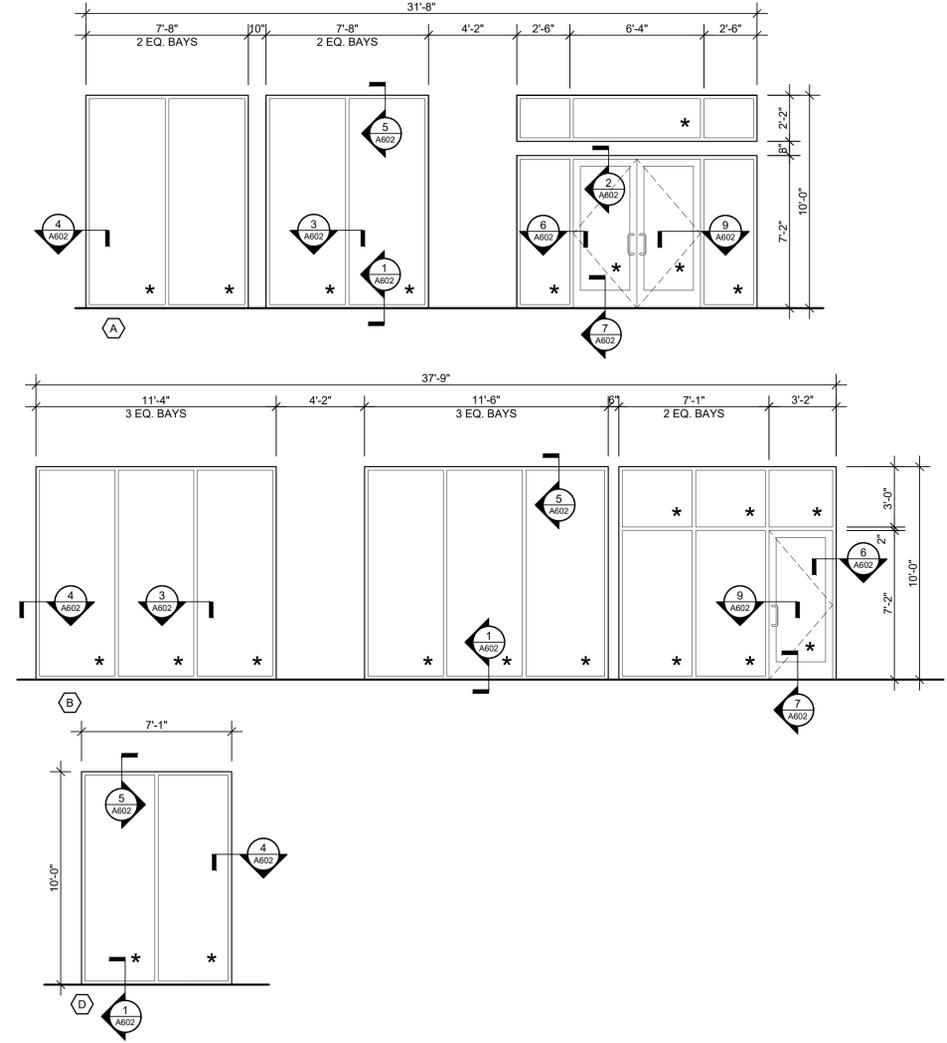
**2 STOREFRONT TRANSOM BAR DETAIL** SCALE: 6" = 1'-0"  
**1 STOREFRONT SILL DETAIL** SCALE: 6" = 1'-0"

# GENERAL NOTES

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

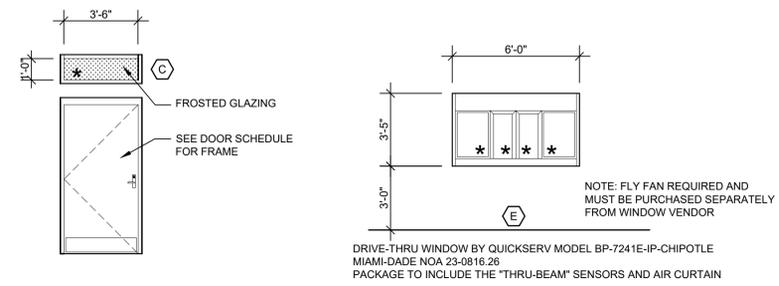
# STOREFRONT TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR



# WINDOW TYPES

NOTE: ALL VIEWS FROM THE EXTERIOR



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STOREFRONT  
DETAILS

A602

MISCELLANEOUS

- 1. THE STRUCTURAL SYSTEM IS UNSTABLE UNTIL ALL CONNECTIONS HAVE BEEN MADE AND ALL CONCRETE HAS REACHED ITS MINIMUM DESIGN STRENGTH, AS SHOWN IN THE STRUCTURAL DOCUMENTS.
2. THE STRUCTURAL DOCUMENTS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE AND DO NOT INDICATE THE METHOD OR MEANS OF CONSTRUCTION. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, PROCEDURES, TECHNIQUES AND SEQUENCES.
3. CONTRACTOR TO SUPPORT, BRACE AND SECURE EXISTING STRUCTURE AS REQUIRED. CONTRACTOR IS SOLELY RESPONSIBLE FOR THE SAFETY OF THE BUILDING DURING CONSTRUCTION.
4. APPLICABLE BUILDING CODE: FLORIDA BUILDING CODE 8TH EDITION (2023).
5. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE FLORIDA BUILDING CODE 8TH EDITION (2023).
6. DESIGN GRAVITY LOADS:
AREA SUPERIMPOSED LIVE LOAD (FBC, TABLE 1607.1)
ROOF 20 PSF
FLOOR 100 PSF (SLAB-ON-GROUND)
PRE-FAB CANOPY 20 PSF
AREA DEAD LOAD
ROOF 20 PSF
7. 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 75001 FOR WIND PRESSURES AND MORE INFO.
8. RAIN INTENSITY: 8.85 in/hr (15-MIN), 4.39 in/hr (60-MIN)
9. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. DO NOT SCALE DRAWINGS.
10. 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-CONFORMING SUBMITTALS WILL BE RETURNED WITHOUT REVIEW.
2. SUBMIT SHOP DRAWINGS AS REQUIRED HEREIN IN DIGITAL PDF FORMAT WITH A HIGH-RESOLUTION ALLOW FOR TWO WEEKS REVIEW TIME 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.
a) STRUCTURAL STEEL
b) CONCRETE MIX DESIGN
c) CONCRETE REINFORCING STEEL
d) MASONRY REINFORCING STEEL
e) PRECAST CONCRETE MASONRY
f) WOOD TRUSSES
g) COLD-FORMED METAL FRAMING DATA
3. CONTRACTOR SHALL NOT BE RELIEVED FROM RESPONSIBILITY FOR ERRORS OR OMISSIONS IN SHOP DRAWINGS OR MIX DESIGNS BY THE ENGINEER'S REVIEW THEREOF.
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.
5. SHOP DRAWING REVIEW COMMENTS BY THIS FIRM SHALL BE TRANSMITTED TO THE ARCHITECT OF RECORD ONLY FOR THEIR REVIEW. 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.
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 SUBMITTAL OR 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.

SITE WORK

- 1. A SUBSURFACE INVESTIGATION HAS BEEN COMPLETED AT THE PROJECT SITE BY EGS FLORIDA, LLC (PROJECT NO. 247574). SOIL BORING LOGS AND SITE PREPARATION PROCEDURES ARE INCLUDED IN THE PROJECT SOILS REPORT, DATED FEBRUARY 1, 2025, WHICH IS AN INTEGRAL PART OF THESE CONTRACT DOCUMENTS.
2. ALL SITE WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE PROJECT SOILS REPORT.
3. DESIGN SOIL BEARING CAPACITY = 2,500 PSF.
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 AT EACH COLUMN FOOTING.
C) ONE DENSITY TEST PER 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.

DELEGATED ENGINEER (PRE-ENGINEERED TRUSSES)

- 1. A LICENSED PROFESSIONAL (DELEGATED) ENGINEER SHALL BE RETAINED TO DESIGN THE WOOD ROOF TRUSSES.
2. THE DELEGATED ENGINEER SHALL BE EXPERIENCED IN THE DESIGN OF THE REFERENCED PRODUCT OR ASSEMBLY.
3. THE DELEGATED ENGINEER MUST BE PROVIDED WITH A COPY OF THESE DRAWINGS AND SPECIFICATIONS.
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.
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 DETAILS, FEATURES 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.
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 DELEGATE ENGINEER AND INCLUDE: A) DRAWINGS INTRODUCING ENGINEERING INPUT SUCH AS DEFINING THE CONFIGURATION OF STRUCTURAL CAPACITY OF STRUCTURAL COMPONENTS AND/OR THEIR ASSEMBLY INTO STRUCTURAL SYSTEMS. B) CALCULATIONS.

CAST IN PLACE CONCRETE

- 1. CONCRETE TO BE NORMAL WEIGHT WITH THE FOLLOWING MINIMUM COMPRESSIVE STRENGTHS AT 28 DAYS:
a) FOOTINGS, SLAB-ON-GRADE: 4000 PSI
b) BEAMS: 4000 PSI
2. CONCRETE SHALL BE READY-MIX PER ASTM C94:
a) PORTLAND CEMENT - ASTM C150
b) AGGREGATES - ASTM C33 (3/4" MAX.)
c) NO CALCIUM CHLORIDE
d) AIR ENTRAINING - ASTM C260
e) WATER REDUCING - ASTM C494
f) FLYASH - ASTM C618 CLASS F (20% MAXIMUM BY WEIGHT)
g) WATER - CLEAN AND POTABLE
3. REINFORCING STEEL: ASTM A615 GRADE 60.
4. REQUIRED SLUMP RANGE = 3" TO 5".

- 5. WELDED WIRE FABRIC: ASTM A-185. FURNISH IN SHEETS, NOT ROLLS.
6. MOISTURE/VAPOR RETARDER: 10 MIL POLYETHYLENE. LAP 6" AND TAPE ALL JOINTS.
7. CODES AND STANDARDS: (CURRENT EDITION)
ACI 301 "SPEC FOR STRUCTURAL CONCRETE FOR BUILDINGS."
ACI 308 "RECOMMENDED PRACTICE FOR HOT WEATHER CONCRETING."
ACI 318 "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE."
ACI 315 "DETAILS AND DETAILING OF CONCRETE REINFORCEMENT."
8. MINIMUM LAP SPACING = 30 BAR DIAMETERS UNLESS NOTED OTHERWISE.
9. PROVIDE PROPERLY TIED SPACERS, CHAIRS, BOLSTERS, ETC. AS REQUIRED AND NECESSARY TO ASSEMBLE, PLACE AND SUPPORT ALL REINFORCING IN PLACE. USE WIRE BAR TYPE SUPPORTS COMPLYING WITH CRSI RECOMMENDATIONS. USE PLASTIC TIP LEGS ON ALL EXPOSED SURFACES.
10. 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.
11. CONTRACTOR SHALL VERIFY EMBEDDED ITEMS, INCLUDING BUT NOT LIMITED TO ANCHOR BOLTS, BOLT BOLSTERS, WELD PLATES, ETC. BEFORE PLACING CONCRETE. NOTIFY ENGINEER OF ANY CONFLICTS WITH REBAR.
12. SEE ARCHITECTURAL DRAWINGS FOR REQUIRED CONCRETE FINISHES.
13. 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.
14. 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.
15. A QUALIFIED TESTING LABORATORY SHALL BE RETAINED TO PERFORM THE FOLLOWING CONCRETE TESTS ON SITE:
a) CYLINDER STRENGTH TESTS - ASTM C39; ONE SET OF FOUR CYLINDERS FOR EACH 50 CUBIC YARDS OR FRACTION THEREOF. TEST ONE CYLINDER AT 7 DAYS AND TWO AT 28 DAYS. HOLD THE FINAL CYLINDER IN RESERVE.
b) SLUMP TESTS - ASTM C143

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.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D11. ALL WELDING SHALL BE PERFORMED USING TIG OR LOW HYDROGEN ELECTRODES, U.S.G.O. ELECTRODES ARE TO BE PROTECTED FROM MOISTURE.
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 SUITABLE NUTS AND PLAIN HARDENED WASHERS. ALL BOLTS SHALL BE TIGHTENED SNUG TIGHT UNLESS OTHERWISE NOTED.
4. SIZE AND USE OF HOLES: SEE AISC TABLE J3.1 U.N.D.
a) OVERSIZED OR LONG-SLOTTED HOLES ARE NOT PERMITTED U.N.O. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16".
b) 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.
c) LARGER HOLES ARE NOT PERMITTED IN WIND FRAME COLUMN BASE PLATES. MAXIMUM HOLE DIAMETER = BOLT DIAMETER + 1/16".
d) SLOTTED HOLES: A 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 NUT TO BOLT AFTER ERECTION.

PRE-ENGINEERED WOOD TRUSSES

- 1. THIS SECTION DEFINES PRE-ENGINEERED, PREFABRICATED, METAL PLATE CONNECTED WOOD ROOF TRUSSES AS "WOOD TRUSSES".
2. WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" 1991 EDITION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION," TP 1-95, PUBLISHED BY THE TRUSS PLATE INSTITUTE; AND THE APPLICABLE BUILDING CODE LISTED IN THE MISCELLANEOUS SECTION OF THESE SPECIFICATIONS.
3. 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.
4. 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.
A) MINIMUM SUPERIMPOSED DEAD LOADS:
1. TOP CHORD: . . . . . 20 PSF
2. BOTTOM CHORD: . . . . . 10 PSF
5. DURATION OF LOAD FACTORS:
ROOF DL+LL+WL 1.33
ROOF DL+LL 1.25
FLOOR DL+LL 1.00

- 6. WOOD TRUSS DESIGN SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION:
A) SPAN LENGTH, OVERHANG AND EAVE 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 SPLICES MUST BE DETAILED. THIS INCLUDES "PIGGY BACK" TRUSSES.
K) CONNECTION DETAILS: TRUSS TO BEARING, TRUSS TO TRUSS, TRUSS TO TRUSS GIRDER, PIGGY BACK TO TRUSS, ETC.
L) BRACING: NOTE MINIMUM BOTTOM CHORD BRACING AND CROSS BRACING REQUIREMENTS BELOW.
7. DEFLECTIONS: (UNLESS NOTED 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 VELOCITY 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 ONE TRUSS SPACE. USE A MINIMUM OF 2 X 4 GRADE MARKED LUMBER AT LEAST 10' LONG, WITH 2-16D NAILS AT INTERMEDIATE AND 3-16D NAILS AT END CONNECTIONS.
12. CROSS BRACING IS REQUIRED AT CONTINUOUS LATERAL BRACING UNLESS NOTED OTHERWISE. LOCATE CROSS BRACING AT OR NEAR THE BOTTOM CHORD BRACING. INSTALL CROSS BRACING AT EACH END AND AT 20' 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. LOCATE 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.
13. TRUSS ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF TRUSS SYSTEM DURING CONSTRUCTION.
14. HANDLING, INSTALLATION, AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "TP 1-95", PUBLISHED BY THE TRUSS PLATE INSTITUTE.

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.
2. WELDED CONNECTIONS SHALL CONFORM TO "CODE FOR WELDING IN BUILDING CONSTRUCTION, D1.0" BY THE AWS.
3. ASTM A-568 STANDARD SPECIFICATION FOR GENERAL REQUIREMENTS FOR STEEL, CARBON AND HIGH STRENGTH LOW-ALLOY HOT ROLLED SHEET AND COLD ROLLED SHEET.
4. ALL STEEL FRAMING SHALL BE INSTALLED BY PERSONNEL EXPERIENCED IN LIGHT GAUGE STEEL FRAMING INSTALLATION.

- 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.
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. STORE OFF GROUND IN A DRY VENTILATED SPACE OR PROTECT WITH SUITABLE WATERPROOF COVERINGS.
7. WITH EACH TYPE OF STEEL FRAMING REQUIRED, PROVIDE MANUFACTURER'S STANDARD STEEL RUNNERS (TRACKS), BLOCKING, LINTELS, CLIP ANGLES, BRACING, REINFORCEMENTS, FASTENERS, AND ACCESSORIES AS RECOMMENDED BY MANUFACTURER FOR APPLICATIONS INDICATED, AS NEEDED TO PROVIDE A COMPLETE STEEL FRAMING SYSTEM.
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 A663.
9. SCREWS SHALL BE AS FINISHED BY MANUFACTURER.
10. PROVIDE GALVANIZED FINISH TO METAL FRAMING COMPONENTS COMPLYING WITH ASTM A525 WITH A G60 COATING.
11. PROVIDE MANUFACTURER'S STANDARD STRUCTURAL "C" SHAPED STEEL STUDS OF SIZE, SHAPE, AND GAUGE INDICATED, WITH A NOMINAL 1-5/8" FLANGE AND MINIMUM 1/2" FLANGE RETURN LP.
12. INSTALL CONTINUOUS TRACKS SIZED 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.
13. FRAME BOTH SIDES OF EXPANSION AND CONTROL JOINTS, AS SHOWN FOR THE WALL SYSTEM, WITH SEPARATE STUDS AND DO NOT BRIDGE THE JOINT WITH COMPONENTS OF THE STUD SYSTEM.
14. WHERE REQUIRED, TEMPORARY BRACING SHALL BE PROVIDED UNTIL ERECTION IS COMPLETED.
15. RESISTANCE TO BENDING AND ROTATION ABOUT THE MINOR AXIS SHALL BE PROVIDED BY MECHANICAL LATERAL BRACING WHERE REQUIRED.
16. ATTACHMENTS OF SIMILAR COMPONENTS SHALL BE DONE BY WELDING, SCREW ATTACHMENT, OR BOLTING. WIRE TYING OF FRAMING COMPONENTS SHALL NOT BE PERMITTED.
17. WELDING OF MEMBERS LIGHTER THAN 18 GAUGE SHALL NOT BE PERMITTED.
18. SPLICES SHALL NOT BE PERMITTED.
19. MINIMUM NUMBER OF EQUALLY SPACED HORIZONTAL WALL BRIDGING FOR THE HEIGHTS SHOWN:
UP TO 10' - 1 ROW
10' TO 14' - 2 ROWS
ABOVE 14' - AT 4' CENTERS

- 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 (DEPENDING ON THE GAUGE OF METAL) ALONG WITH ASTM E60 ELECTRODES.
21. CONTRACTOR TO SUBMIT THE FOLLOWING:
a) SUBMIT CERTIFICATION 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.

CARPENTRY

- 1. 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 15% MAXIMUM MOISTURE CONTENT, U.N.G. 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.S. 11-571 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 HIPS, 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 SHEETS 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 MANUFACTURER'S REQUIREMENTS UNLESS NOTED OTHERWISE.

- 15. 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.

- 1. 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 15% MAXIMUM MOISTURE CONTENT, U.N.G. 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.S. 11-571 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 HIPS, 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 SHEETS 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 MANUFACTURER'S REQUIREMENTS UNLESS NOTED OTHERWISE.

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Contains 10 empty rows for revision tracking.

REVISION DESCRIPTIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Contains 10 empty rows for revision descriptions.

- 1. THIS SECTION DEFINES PRE-ENGINEERED, PREFABRICATED, METAL PLATE CONNECTED WOOD ROOF TRUSSES AS "WOOD TRUSSES".
2. WOOD TRUSSES SHALL BE DESIGNED AND FABRICATED IN ACCORDANCE WITH THE "NATIONAL DESIGN SPECIFICATION FOR WOOD CONSTRUCTION" 1991 EDITION, PUBLISHED BY THE NATIONAL FOREST PRODUCTS ASSOCIATION, "NATIONAL DESIGN STANDARD FOR METAL PLATE CONNECTED WOOD TRUSS CONSTRUCTION," TP 1-95, PUBLISHED BY THE TRUSS PLATE INSTITUTE; AND THE APPLICABLE BUILDING CODE LISTED IN THE MISCELLANEOUS SECTION OF THESE SPECIFICATIONS.
3. 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.
4. 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.
A) MINIMUM SUPERIMPOSED DEAD LOADS:
1. TOP CHORD: . . . . . 20 PSF
2. BOTTOM CHORD: . . . . . 10 PSF
5. DURATION OF LOAD FACTORS:
ROOF DL+LL+WL 1.33
ROOF DL+LL 1.25
FLOOR DL+LL 1.00

- 6. WOOD TRUSS DESIGN SHOP DRAWINGS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING INFORMATION:
A) SPAN LENGTH, OVERHANG AND EAVE 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 SPLICES MUST BE DETAILED. THIS INCLUDES "PIGGY BACK" TRUSSES.
K) CONNECTION DETAILS: TRUSS TO BEARING, TRUSS TO TRUSS, TRUSS TO TRUSS GIRDER, PIGGY BACK TO TRUSS, ETC.
L) BRACING: NOTE MINIMUM BOTTOM CHORD BRACING AND CROSS BRACING REQUIREMENTS BELOW.
7. DEFLECTIONS: (UNLESS NOTED 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 VELOCITY 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 ONE TRUSS SPACE. USE A MINIMUM OF 2 X 4 GRADE MARKED LUMBER AT LEAST 10' LONG, WITH 2-16D NAILS AT INTERMEDIATE AND 3-16D NAILS AT END CONNECTIONS.
12. CROSS BRACING IS REQUIRED AT CONTINUOUS LATERAL BRACING UNLESS NOTED OTHERWISE. LOCATE CROSS BRACING AT OR NEAR THE BOTTOM CHORD BRACING. INSTALL CROSS BRACING AT EACH END AND AT 20' 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. LOCATE 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.
13. TRUSS ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING OF TRUSS SYSTEM DURING CONSTRUCTION.
14. HANDLING, INSTALLATION, AND BRACING OF WOOD TRUSSES SHALL BE IN ACCORDANCE WITH "TP 1-95", PUBLISHED BY THE TRUSS PLATE INSTITUTE.

REVISIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Contains 10 empty rows for revision tracking.

REVISION DESCRIPTIONS

Table with 3 columns: NO., DESCRIPTION, DATE. Contains 10 empty rows for revision descriptions.

SHEET INDEX table with columns: SHEET NUMBER, SHEET TITLE. Rows include 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).

Table with 3 columns: NO., DESCRIPTION, DATE. Contains 10 empty rows for revision tracking.

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THE FERBER COMPANY logo and contact information: 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

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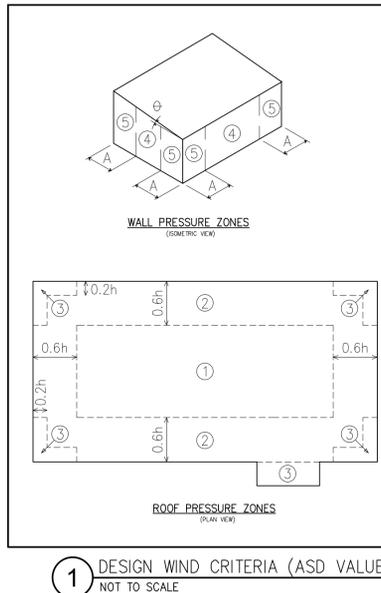
CHIPOTLE MEXICAN GRILL BUILDING SHELL. 1491 EMERSON DR. NE, PALM BAY, FLORIDA 32907

02.26.24 date, 23068 comm. no.

STRUCTURAL NOTES

S001

PLOT DATE: 3.12.2024

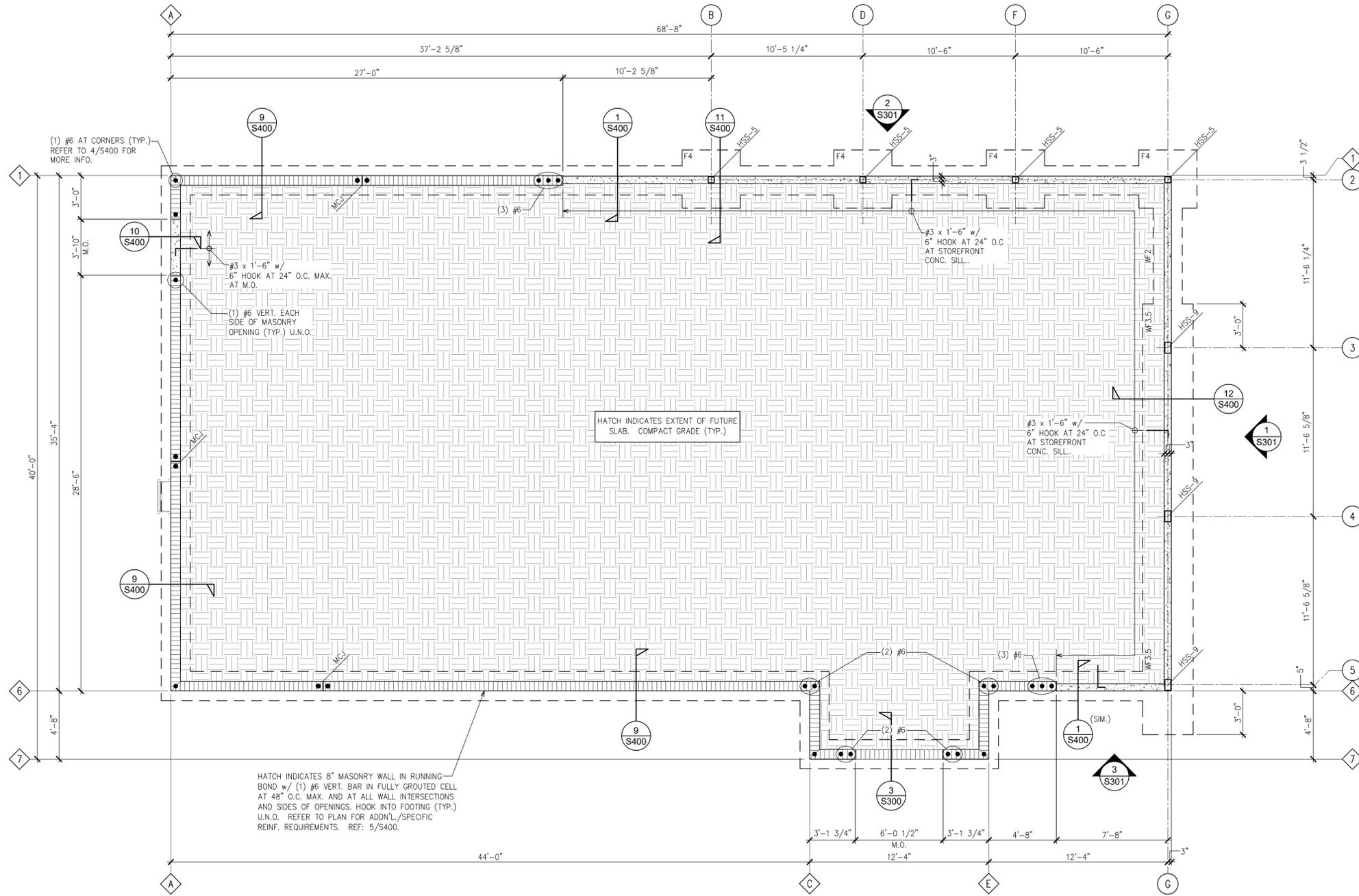


BUILDING DATA table with columns: ULTIMATE WIND SPEED (mph), WIND LOAD FACTOR, RISK CATEGORY, ROOF ANGLE (theta), MEAN ROOF HEIGHT (ft), INTERNAL PRESSURE COEFFICIENT, WIND EXPOSURE CATEGORY, WIDTH OF WALL EDGE STRIP (A), DEAD LOAD RESISTING UPLIFT (0.6D in psf), EDGE DISTANCE (0.6h), 0.2 X MEAN ROOF HEIGHT (Feet).

DESIGN WIND LOADS - COMPONENTS & CLADDING (Values per ASD) table with columns: ZONE, AREA (sf), ROOF DESIGN PRESSURE (psf), WALL DESIGN PRESSURE (psf).

DESIGN WIND CRITERIA (ASD VALUES) NOT TO SCALE

EAC PROFESSIONAL ENGINEERING, INC. logo and contact information: 1912 Melissa Ann Dr., Lutz, FL 33558. Phone: 813.963.1906. Website: STRUCTURAL@EAC-PE.COM, Alan C. Guenther, P.E. #53308 / C.A. #26813



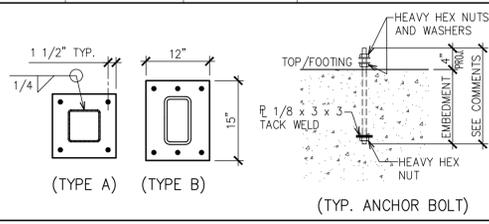
HATCH INDICATES 8" MASONRY WALL IN RUNNING-BOND w/ (1) #6 VERT. BAR IN FULLY GROUTED CELL AT 48" O.C. MAX. AND AT ALL WALL INTERSECTIONS AND SIDES OF OPENINGS. HOOK INTO FOOTING (TYP.) U.N.O. REFER TO PLAN FOR ADD'L./SPECIFIC REINF. REQUIREMENTS. REF: 5/S400.

HATCH INDICATES EXTENT OF FUTURE SLAB. COMPACT GRADE (TYP.)

**FOUNDATION PLAN**  
SCALE: 1/4" = 1'-0"  
NORTH

FOOTING SCHEDULE				
MARK	SIZE	DEPTH	REINFORCING	COMMENTS
WF2	2'-0" WIDE X CONT.	1'-0"	(3) #5 CONT. W/ #5 TRANSV. AT 24" O.C. BOTTOM	WALL FOOTING
WF3.5	3'-6" X CONT.	1'-6"	(5) #5 CONT. W/ #5 TRANSV. AT 12" O.C. TOP AND BOTTOM	COMBINED COLUMN FOOTING
F4	4'-0" X 4'-0"	1'-0"	(4) #5 EACH WAY, TOP AND BOTTOM	COLUMN FOOTING

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" 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" x 16" F1554-GR36 ANCHOR BOLTS



- FOUNDATION PLAN NOTES:**
- FUTURE CONCRETE SLAB-ON-GRADE AND UNDERSLAB VAPOR RETARDER TO BE SPECIFIED/DESIGNED BY THE TENANT ARCHITECT/ENGINEER UNDER A SEPARATE PERMIT.
  - TOP OF SLAB ELEVATION = 0'-0" U.N.O.  
TOP OF EXTERIOR FOOTING ELEVATION = (-) 1'-4" U.N.O.
  - CENTER ALL FOOTINGS BELOW WALL OR COLUMN U.N.O.
  - ALL FOOTING REINFORCING TO BE BOTTOM BARS U.N.O.
  - REFER TO ARCHITECTURAL/CIVIL FOR EXTERIOR SLAB AND SIDEWALK INFORMATION.
  - REFER TO ARCHITECTURAL/PLUMBING DRAWINGS FOR FIXTURE/DRAIN LOCATIONS AND REQUIREMENTS.
  - REFER TO THIS PLAN FOR MASONRY CONTROL JOINT (M.C.J.) LOCATIONS. REFER TO 3/S400 FOR MASONRY CONTROL JOINT DETAIL.
  - REFER TO CIVIL DRAWINGS FOR BUILDING LOCATION AND BUILDING ORIENTATION ON THE SITE.
  - ALL WALL FOOTINGS TO BE TYPE "WF2" U.N.O.
  - REFER TO 7/S400 FOR PIPE PENETRATION DETAIL.
  - PROVIDE CORNER BARS AT ALL CORNERS AND INTERSECTIONS OF CONTINUOUS FOOTINGS. REFER TO DETAIL 2/S400 FOR MORE INFO.
  - REFER TO 1/S001 FOR DESIGN WIND CRITERIA.



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

no.	date	revision descriptions

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

02.26.24  
date  
23068  
comm. no.

**FOUNDATION PLAN**

**S100**

PLOT DATE: 3.12.2024

no.	date	revision descriptions

**CHIPOTLE MEXICAN GRILL  
BUILDING SHELL**

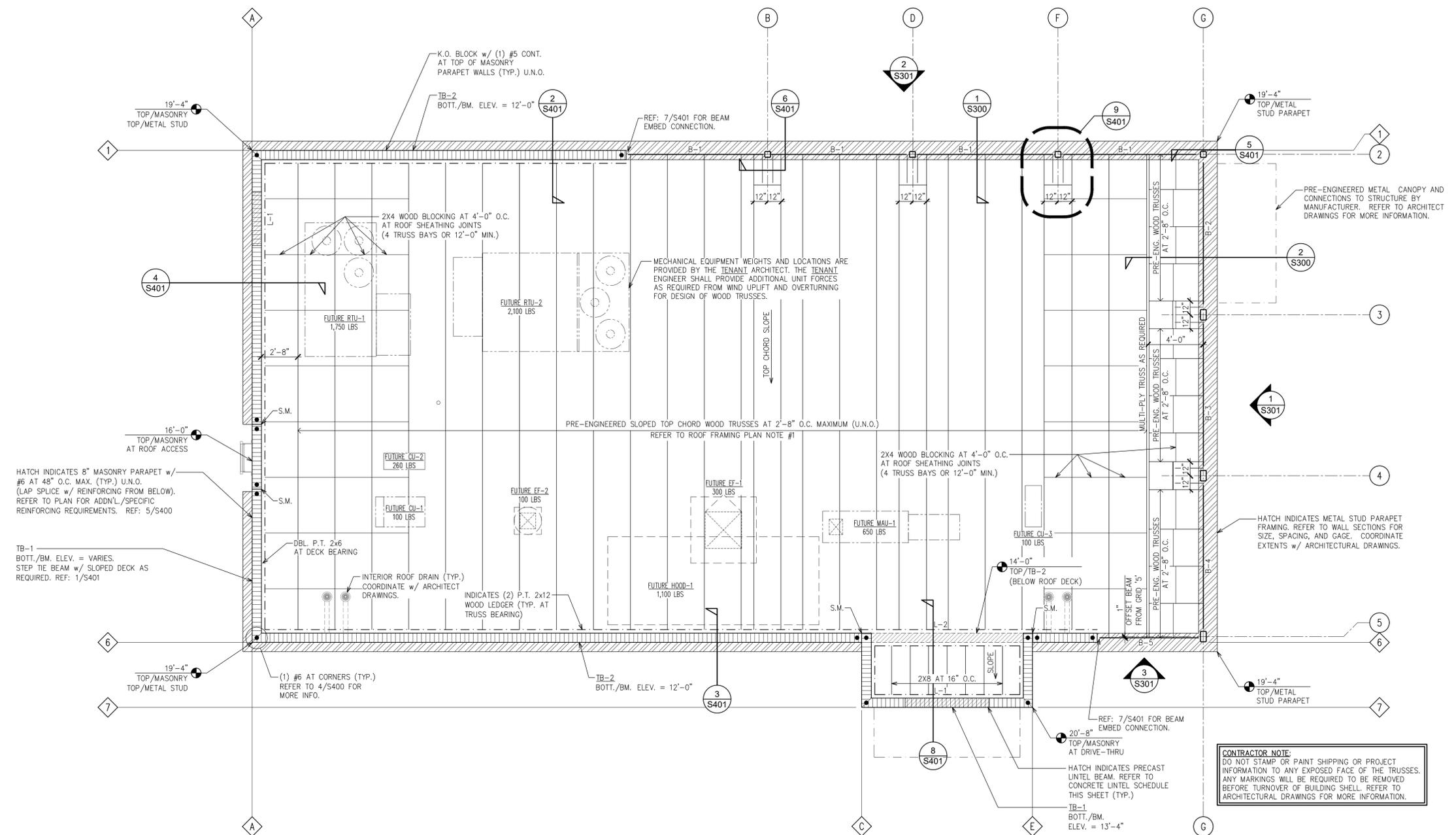
1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

02.26.24  
date

23068  
comm. no.

**ROOF FRAMING  
PLAN**

**S200**



**CONTRACTOR NOTE:**  
DO NOT STAMP OR PAINT SHIPPING OR PROJECT INFORMATION TO ANY EXPOSED FACE OF THE TRUSSES. ANY MARKINGS WILL BE REQUIRED TO BE REMOVED BEFORE TURNOVER OF BUILDING SHELL. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.

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

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/BEAM
B-2	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
	W 10X22	13'-6 3/4" (HI) 13'-3 3/4" (LO)	TOP/BEAM
B-3	HSS 6X6X3/8	7'-8"	CANOPY
	HSS 5X2X1/4	18'-10"	TOP/HSS
	W 10X22	13'-3 3/4" (HI) 13'-0 3/4" (LO)	TOP/BEAM
B-4	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
	W 10X22	13'-0 3/4" (HI) 12'-9 3/4" (LO)	TOP/BEAM
B-5	HSS 6X4X1/4 (LSV)	10'-6"	TOP/HSS
	HSS 5X2X1/4 (LSH)	18'-10"	TOP/HSS
B-5	W 10X22	12'-9 3/4"	TOP/BEAM
	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

Diagram showing cross-sections of Tie Beam Type A (8" x 16") and Tie Beam Type B (8" x 32"). Both show 8" nominal height and reinforcement details.

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

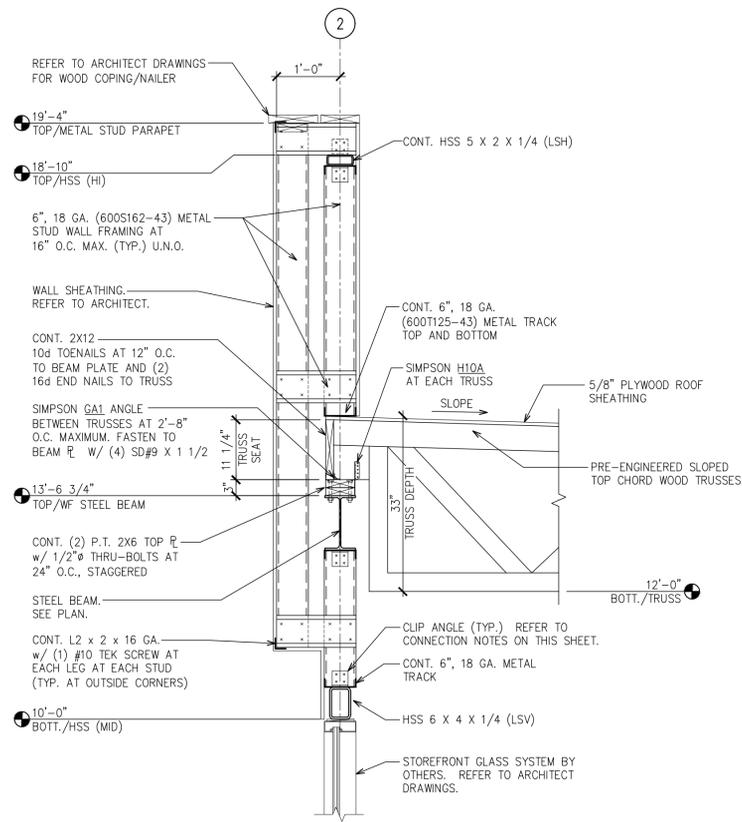
Diagram showing cross-sections of Concrete Lintel Type A (8" x 8") and Type B (8" x 16").

**TRUSS MANUFACTURER NOTES**

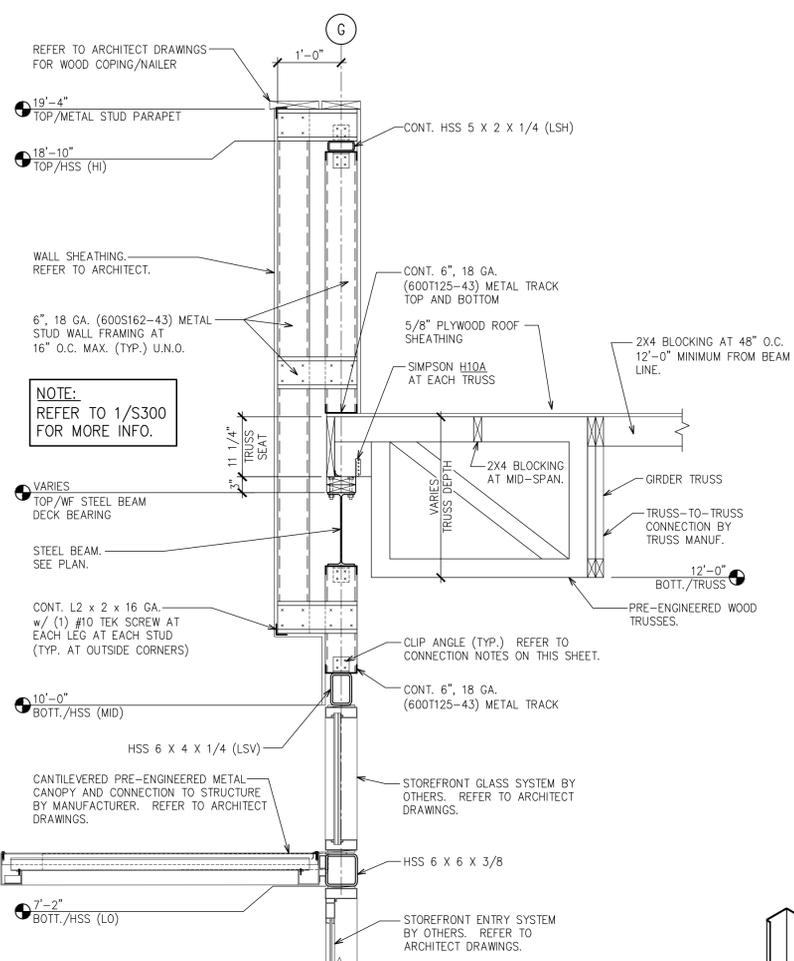
- TRUSS TOP CHORDS TO BE 2x4 MINIMUM.
- ALL TRUSS-TO-TRUSS CONNECTIONS TO BE DESIGNED/SUPPLIED BY TRUSS MFR. SUBMIT CUT SHEETS OF CONNECTION HARDWARE FOR STRUCTURAL REVIEW.
- ALL TRUSS ENGINEERING, PLACEMENT, DIMENSIONS, SIZE OF MEMBERS AND CONNECTIONS TO BE VERIFIED BY TRUSS MANUFACTURER.
- IF TRUSS LAYOUT DIFFERS FROM THAT REPRESENTED ABOVE, PROVIDE ARCHITECT WITH REVISED LAYOUT FOR SUPERSTRUCTURE REDESIGN.
- ALL MECHANICAL DUCT WORK WITHIN THE TRUSSES SHALL BE COORDINATED BY THE CONTRACTOR AND THE TRUSS MANUFACTURER PRIOR TO FABRICATION OF THE TRUSSES.
- 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.
- 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:**

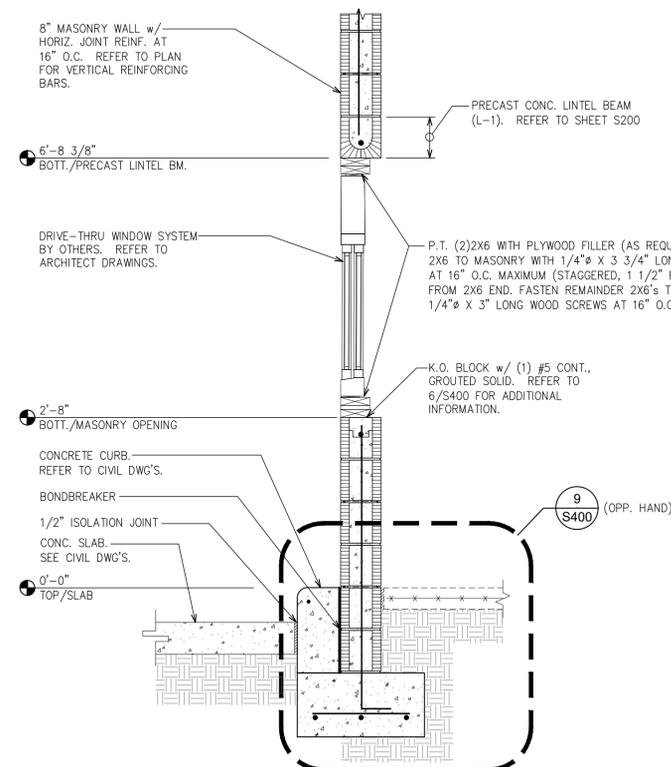
- ROOF FRAMING TO BE PRE-ENGINEERED 24" DEEP (MINIMUM) WOOD TRUSSES AT 2'-8" O.C. MAXIMUM WITH A SLOPING TOP CHORD AND SHALL BE DESIGNED BY A DELEGATED ENGINEER AND FABRICATED PER APPLICABLE LOADS BY TRUSS MANUFACTURER.
- CONTRACTOR/ERECTOR IS RESPONSIBLE FOR ALL TEMPORARY BRACING.
- TRUSS TOP CHORD SLOPE = 1/4" PER FOOT (MIN.) U.N.O.
- ROOF SHEATHING SHALL BE 5/8" EXPOSURE 1 APA RATED 40/20 C-D. REFER TO 5/S300 FOR ROOF SHEATHING FASTENING PATTERN.
- BOTTOM OF TRUSS ELEVATION = 12'-0".
- 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.
- MECHANICAL CONTRACTOR SHALL VERIFY THAT WEIGHT OF ACTUAL EQUIPMENT INSTALLED DOES NOT EXCEED MAXIMUM OPERATING WEIGHT OF EQUIPMENT SHOWN ON PLAN.
- 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).
- 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.
- S.M. = INDICATES STEP TOP/MASONRY PARAPET.
- S.P. = INDICATES STEP TOP/METAL STUD PARAPET.
- REFER TO 1/S001 FOR DESIGN WIND CRITERIA.



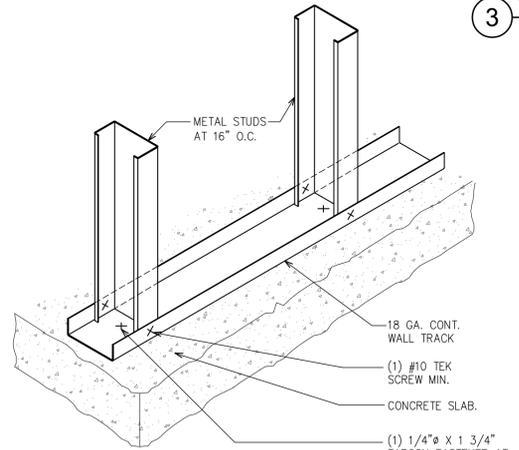
**1 WALL SECTION**  
SCALE: 3/4" = 1'-0"



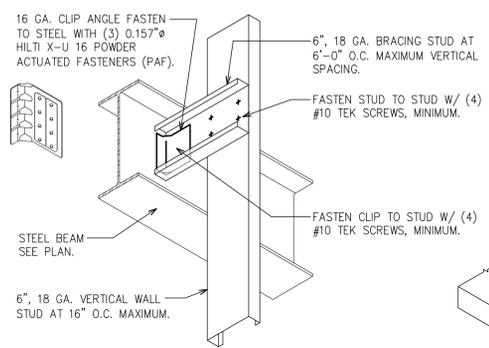
**2 WALL SECTION**  
SCALE: 3/4" = 1'-0"



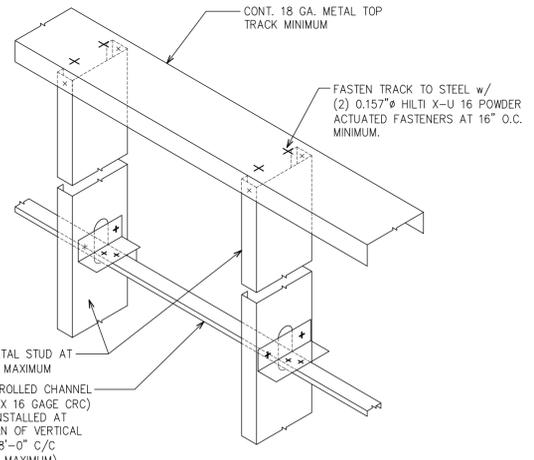
**3 WALL SECTION**  
SCALE: 3/4" = 1'-0"



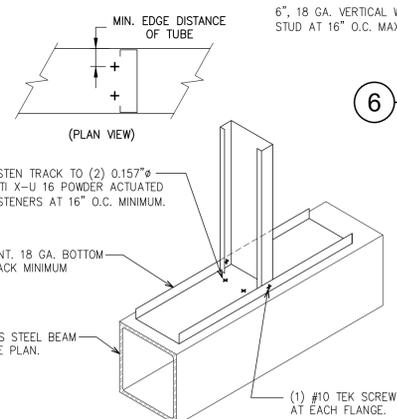
**7 BASE TRACK DETAIL**  
N.T.S.



**6 BRACING STUD DETAIL**  
N.T.S.



**8 STUD BRACING 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:**

A. 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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ALAN C. GUENTHER, P.E.  
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no.	date	revision descriptions

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WALL SECTIONS

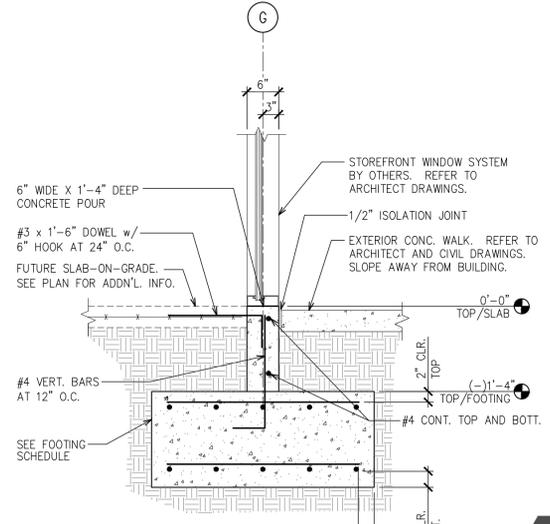
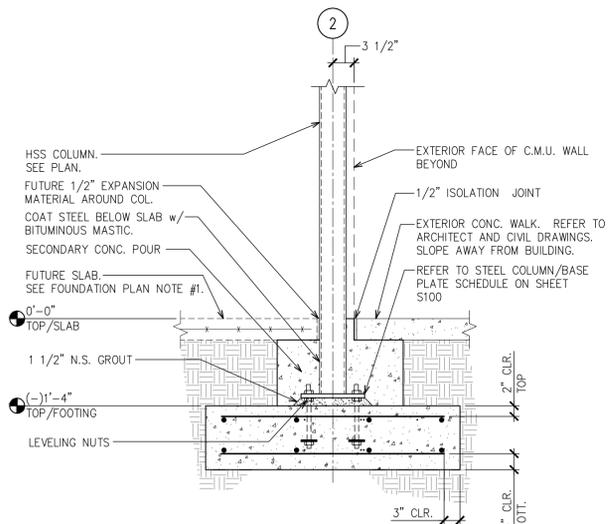
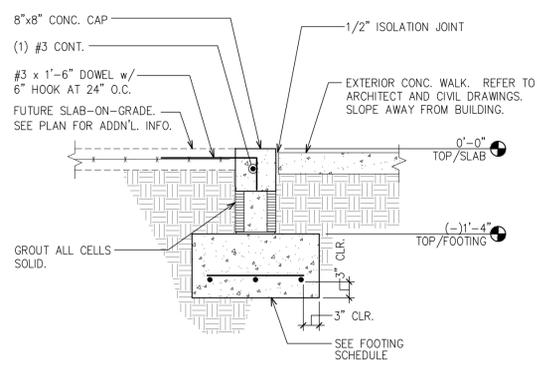
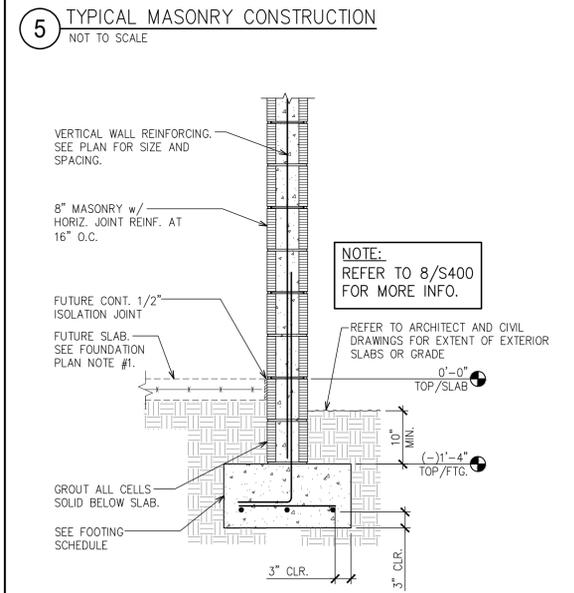
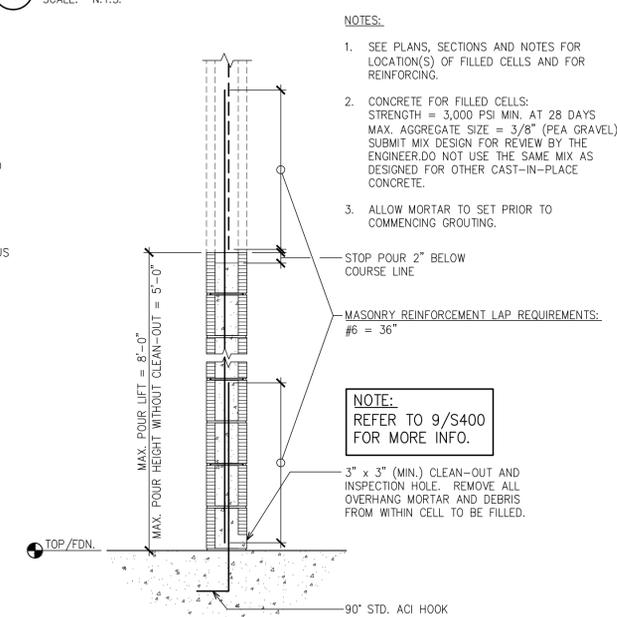
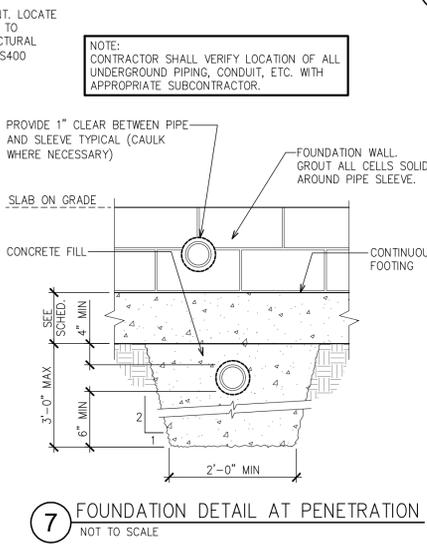
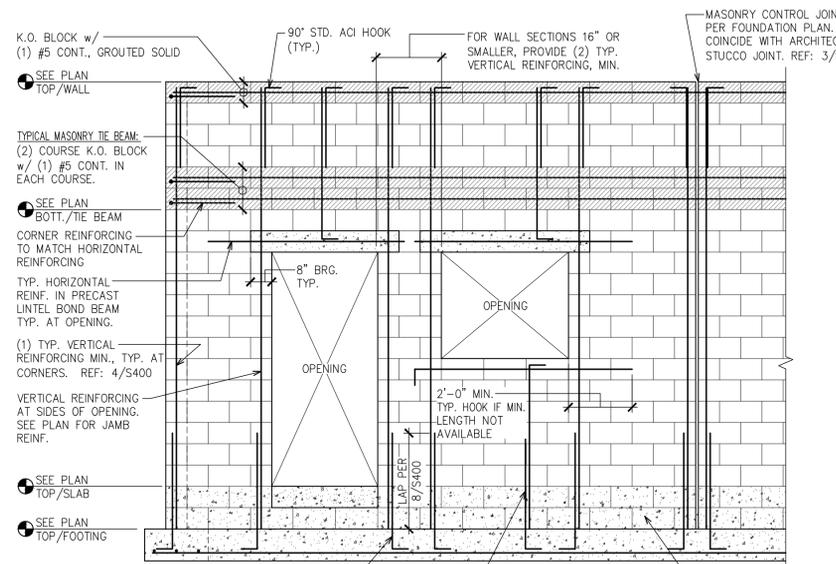
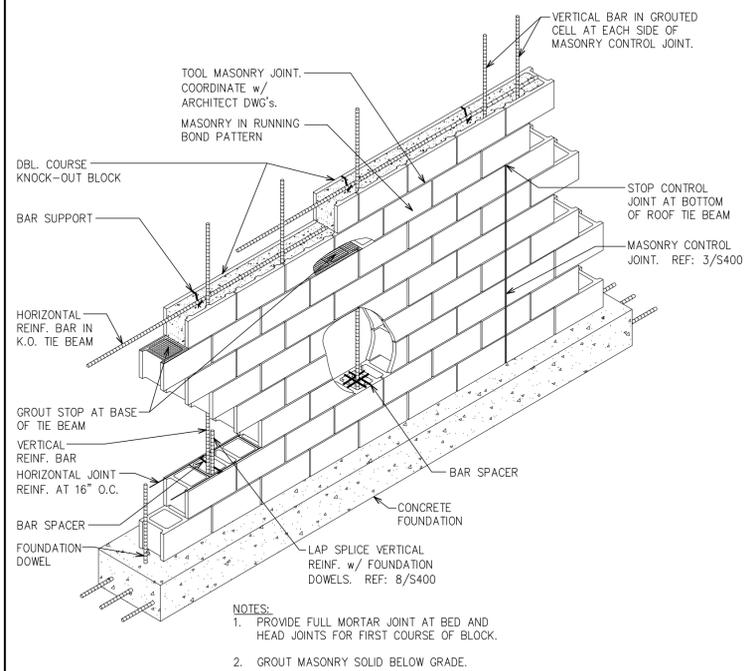
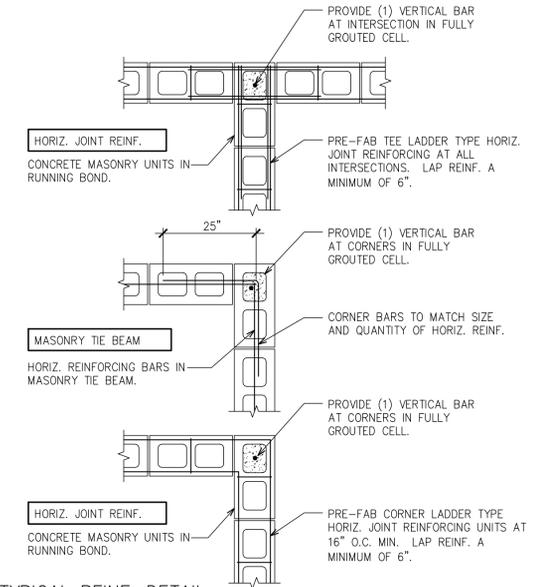
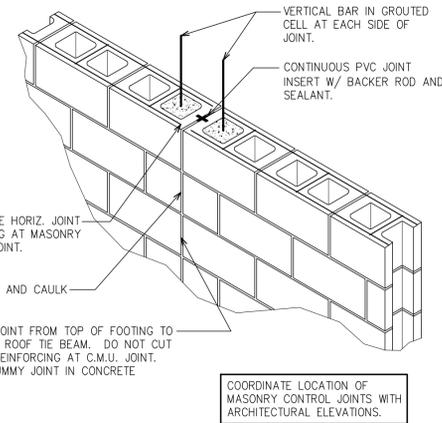
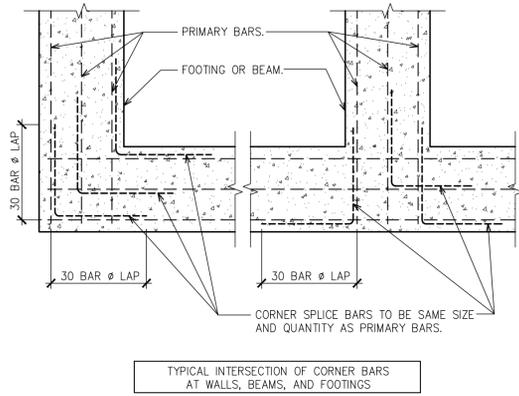
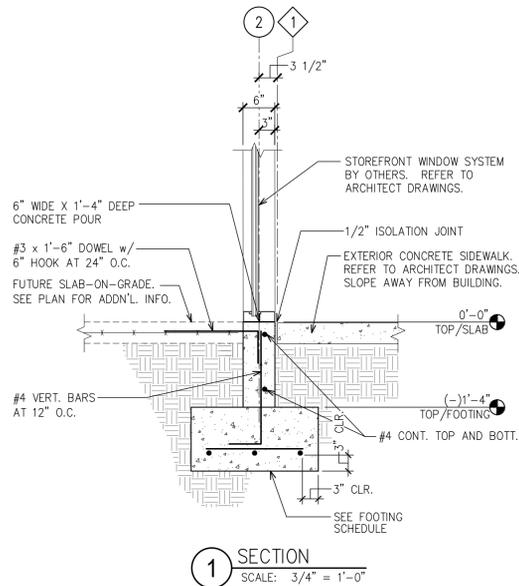
**S300**



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STRUCTURAL  
Alan C. Guenther, P.E. #53308 / C.A. #26813

PLOT DATE: 3.12.2024





- NOTES:**
- SEE PLANS, SECTIONS AND NOTES FOR LOCATION(S) OF FILLED CELLS AND FOR REINFORCING.
  - CONCRETE FOR FILLED CELLS: STRENGTH = 3,000 PSI MIN. AT 28 DAYS MAX. AGGREGATE SIZE = 3/8" (PEA GRAVEL) SUBMIT MIX DESIGN FOR REVIEW BY THE ENGINEER. DO NOT USE THE SAME MIX AS DESIGNED FOR OTHER CAST-IN-PLACE CONCRETE.
  - ALLOW MORTAR TO SET PRIOR TO COMMENCING GROUTING.
- NOTE:** REFER TO 9/S400 FOR MORE INFO.
- 3" x 3" (MIN.) CLEAN-OUT AND INSPECTION HOLE. REMOVE ALL OVERHANG MORTAR AND DEBRIS FROM WITHIN CELL TO BE FILLED.

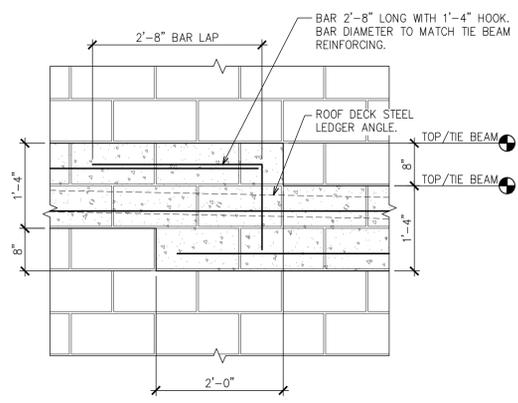
no.	date	revision descriptions

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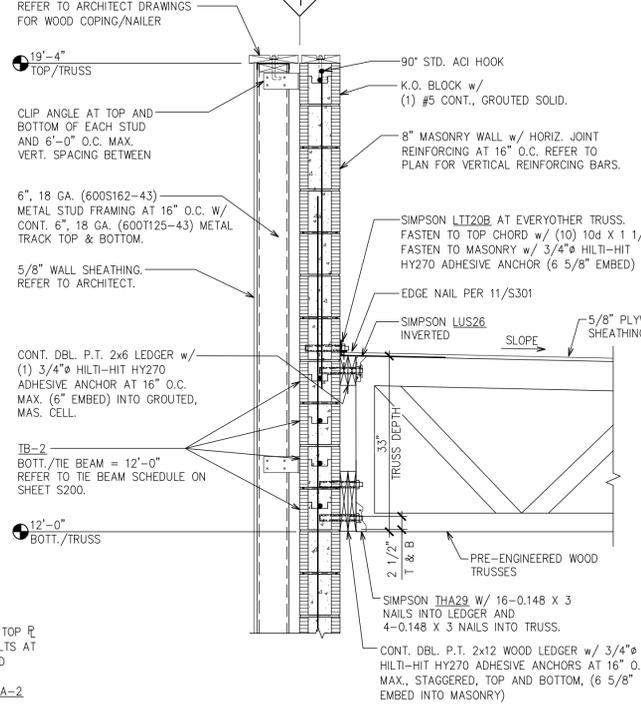
SECTIONS AND DETAILS

**S400**

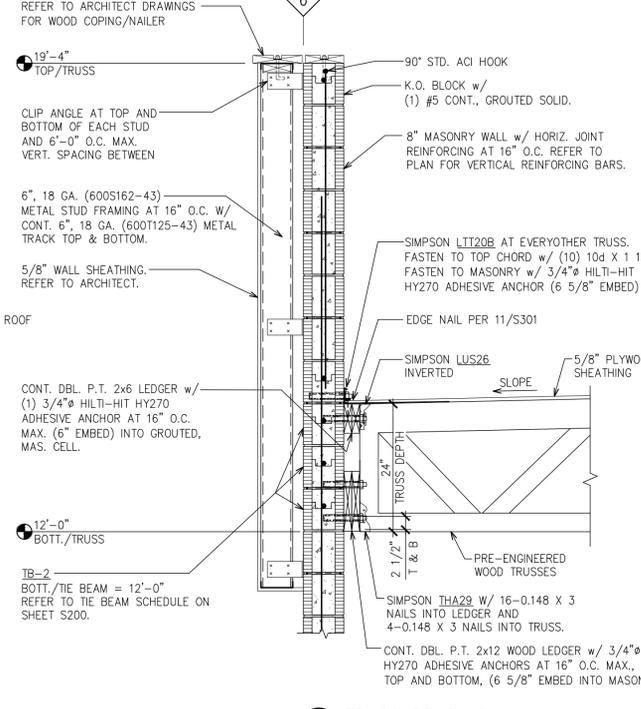


**NOTES:**  
 1. MASONRY TIE BEAM SHALL BE TB-1. REFER TO TIE BEAM SCHEDULE ON SHEET S200.  
 2. STEP TIE BEAM A MAXIMUM OF 8". LOCATE TIE BEAM STEPS AS REQUIRED WITH SLOPED DECK LEDGER ANGLE.

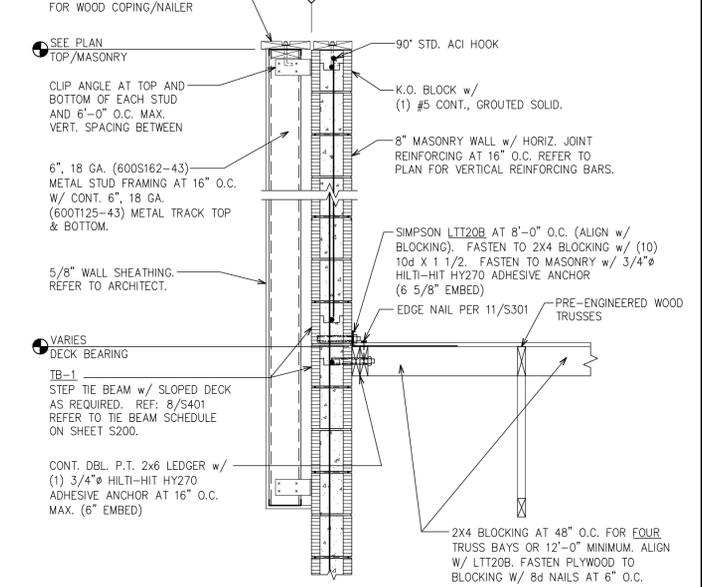
**1 MASONRY TIE BEAM - STEP**  
 NOT TO SCALE



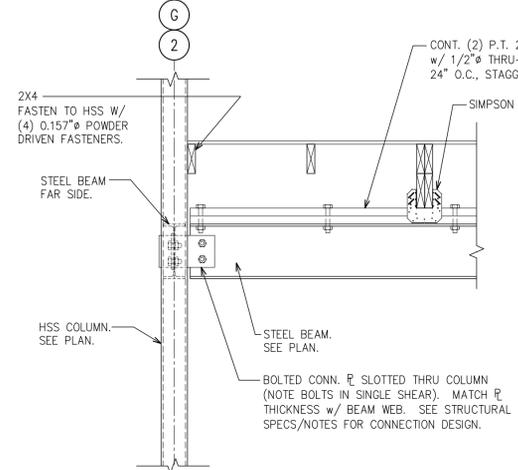
**2 TRUSS BEARING**  
 SCALE: 3/4" = 1'-0"



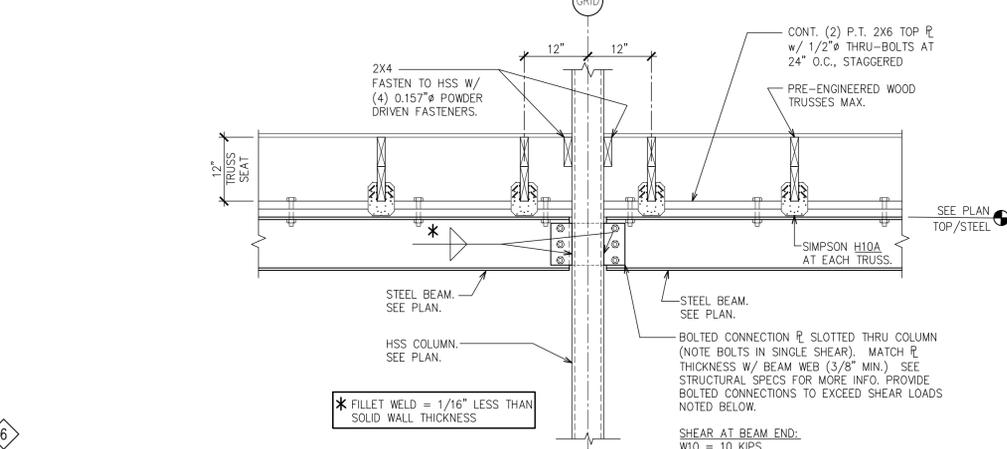
**3 TRUSS BEARING**  
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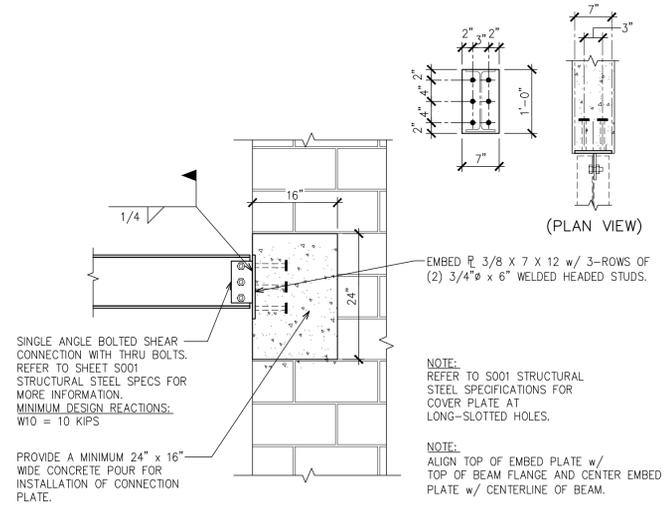
**4 DECK BEARING**  
 SCALE: 3/4" = 1'-0"



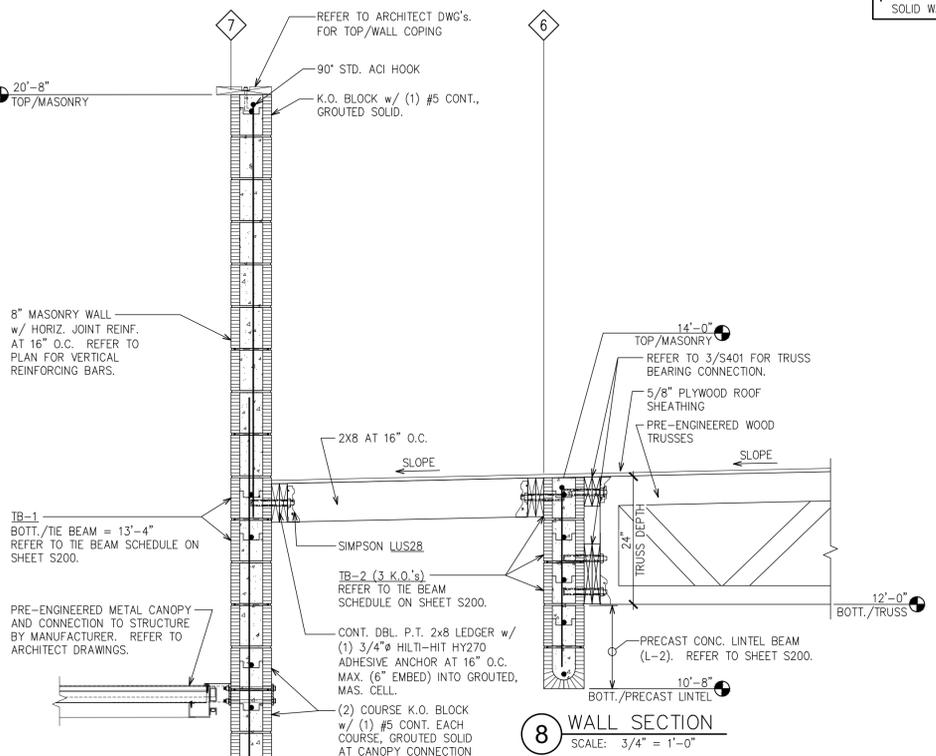
**5 BEAM CONNECTION**  
 SCALE: 3/4" = 1'-0"



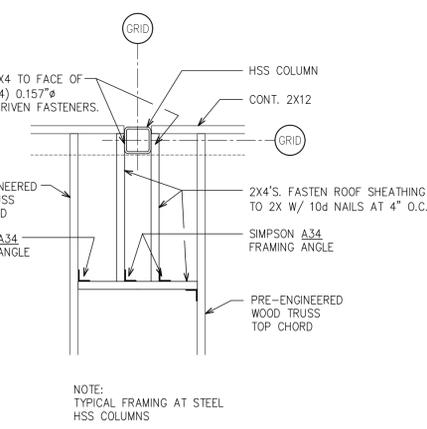
**6 BEAM-COLUMN CONNECTION**  
 SCALE: 3/4" = 1'-0"



**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"

no.	date	revision descriptions

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

02.26.24  
 date  
 23068  
 comm. no.

SECTIONS AND  
 DETAILS

**S401**

**PLUMBING GENERAL NOTES:**

- 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.

**MATERIAL SPECIFICATIONS:**

- 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 UNICELLULAR-SELF-SEAL ARMAFLEX AP, PROVIDE 1" THICK INSULATION FOR HOT WATER PIPING UP TO 1 1/2", 1 1/2" THICK FOR PIPING 1 1/2" 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.)

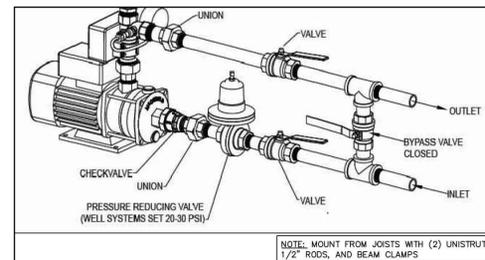
PLUMBING LEGEND		
DESCRIPTION	ABBREV.	SYMBOL
SANITARY PIPING	SAN	_____
GREASE WASTE PIPING	GW	_____GW_____
VENT PIPING	V	-----
COLD WATER PIPING	CW	-----
HOT WATER PIPING	HW	-----
STORM WATER PIPING	ST	-----ST-----
GAS PIPING	G	-----G-----
GATE VALVE	GV	----- -----
CLEAN OUT	CO	----- -----
FLOOR CLEAN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

**PLUMBING FIXTURE SCHEDULE:**

- 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 1/2" X 10" 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.

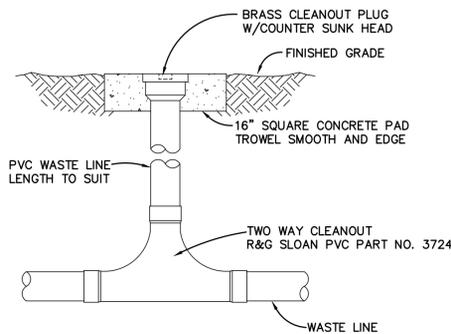
**SEPARATE LINE ITEM:**

- \*\* 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 PRSSURE 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-HP 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.



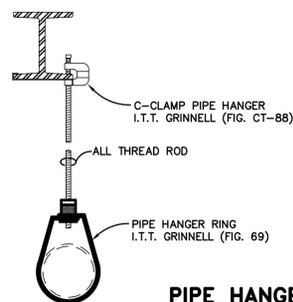
**PACKAGED BOOSTER SYSTEM SCHEMATIC**

NO SCALE



**2-WAY CLEANOUT DETAIL**

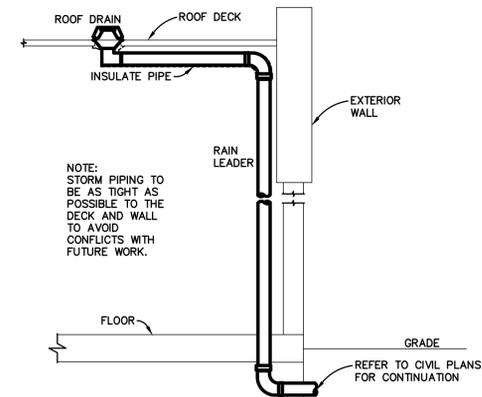
NO SCALE



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

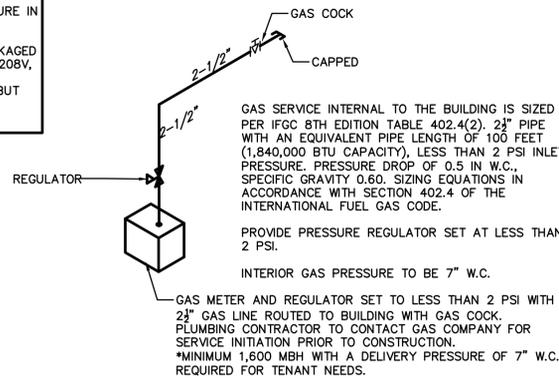
**PIPE HANGER DETAIL**

NO SCALE U.L./F.M. APPROVED



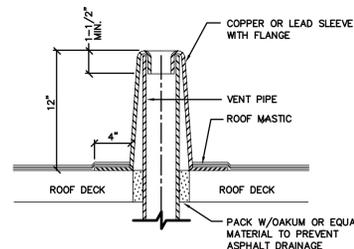
**RAIN LEADER DETAIL**

NO SCALE



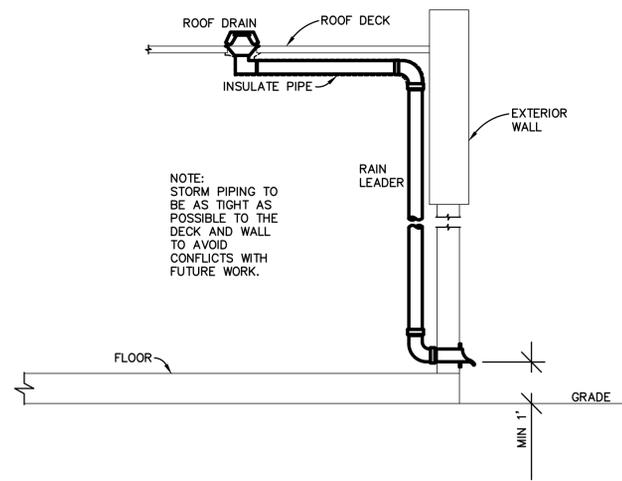
**GAS RISER DIAGRAM**

SCALE: NONE



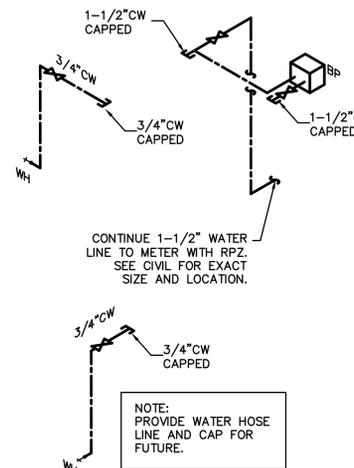
**VENT THRU ROOF DETAIL**

NO SCALE



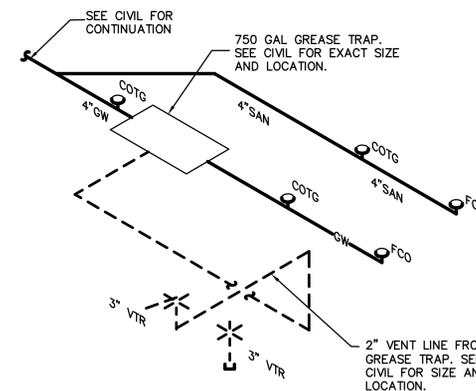
**SECONDARY RAIN LEADER DETAIL**

NO SCALE



**WATER RISER DIAGRAM**

SCALE: NONE

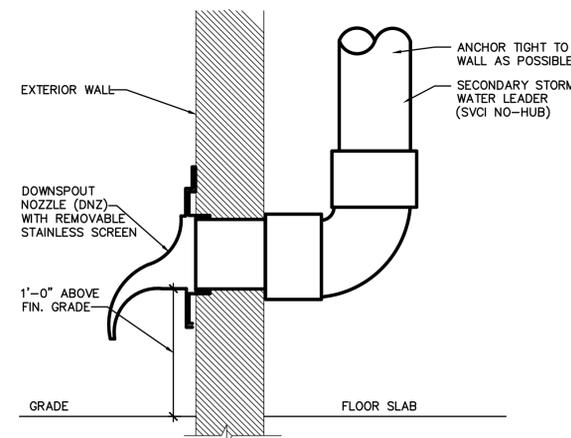


**SANITARY RISER DIAGRAM**

SCALE: NONE

**NOTES**

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



**SECONDARY DOWNSPOUT NOZZLE**

NO SCALE

Engineering Professionals, Inc.  
 Professional Engineers  
 EIT 6437  
 912 W. Dr. Martin Luther King Jr. Blvd.  
 Tampa, FL 33603 (813) 251-6848



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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

no.	date	revision descriptions

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

03.08.24  
 date

23068  
 comm. no.

PLUMBING DETAILS  
 LEGEND, SCHEDULES  
 NOTES AND RISERS

P000



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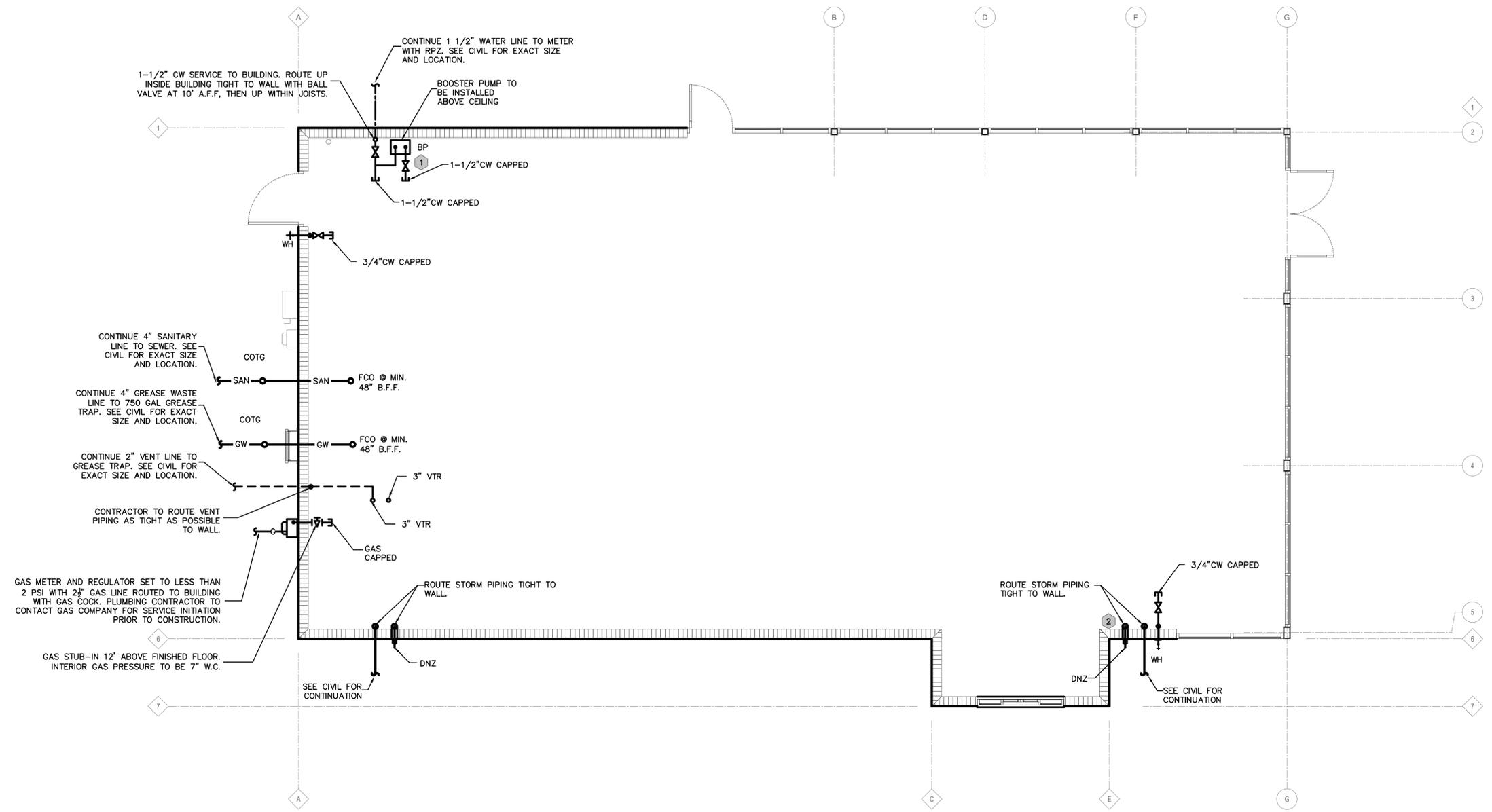


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 MINIMUM FIRE SAFETY STANDARDS

SHANE R. HAMILTON, PE  
 FLORIDA LICENSE #75420  
 seal

- CONSTRUCTION NOTES:**
- 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.



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

no.	date	revision descriptions

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

03.08.24  
 date

23068  
 comm. no.

PLUMBING FLOOR  
 PLAN

P100

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



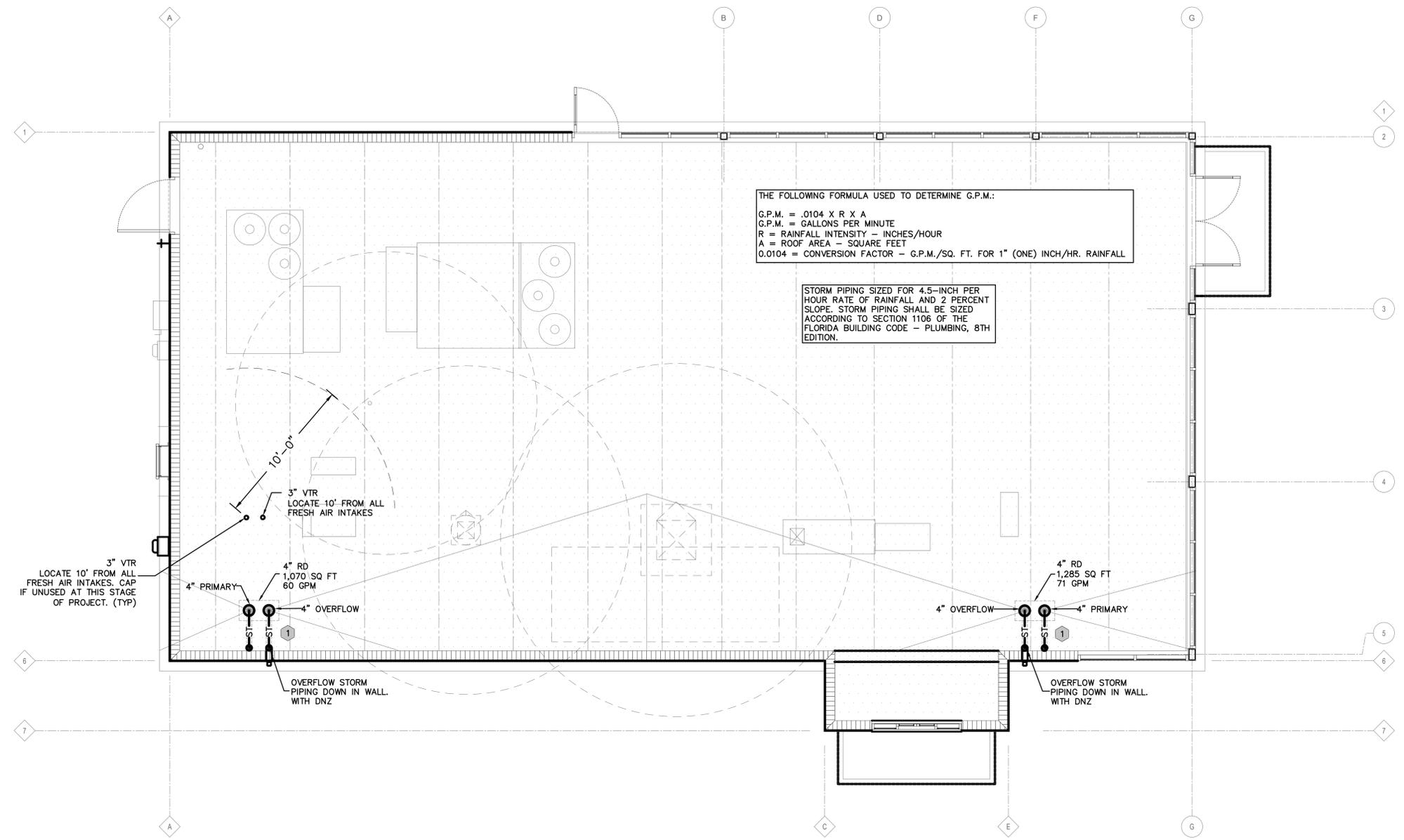
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SHANE R. HAMILTON, PE  
 FLORIDA LICENSE #75420  
 seal



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

no.	date	revision descriptions

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

03.08.24  
 date

23068  
 comm. no.

PLUMBING ROOF  
 PLAN

P200

Engineering Professionals, Inc.  
 Mechanical Engineers  
 EIT 6437  
 912 W. Dr. Martin Luther King Jr. Blvd.  
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ELECTRICAL

PROJECT NOTES

- 1. ALL WORK SHALL CONFORM TO:
A. FLORIDA BUILDING CODE (FBCB) 2023- 8th EDITION.
B. FLORIDA FIRE PREVENTION CODE (FFPC) 2021 - 8th EDITION.
C. FLORIDA BUILDING CODE ENERGY CONSERVATION (FBC/EC) 2023 - 8th EDITION.
D. NATIONAL ELECTRIC CODE (NEC) - 2020 EDITION.
2. ALL MATERIALS SHALL BE NEW AND OF DOMESTIC ORIGIN AND SHALL BEAR UNDERWRITERS' LABEL WHERE APPLICABLE.
3. ALL WORK SHALL BE PERFORMED BY A LICENSED ELECTRICAL CONTRACTOR IN A FIRST-CLASS WORKMANLIKE MANNER. THE COMPLETED SYSTEM IS TO BE FULLY OPERABLE AND ACCEPTANCE OF THIS SYSTEM BY THE ENGINEER/ARCHITECT MUST BE A CONDITION OF THE SUB CONTRACT.
4. ALL WORK TO BE COORDINATED WITH OTHER TRADES TO AVOID INTERFERENCE WITH THE PROGRESS OF CONSTRUCTION.
5. CONTRACTOR TO GUARANTEE ALL MATERIALS AND WORKMANSHIP FREE FROM DEFECTS FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM DATE OF ACCEPTANCE.
6. CORRECTION OF ANY DEFECTS TO BE COMPLETED WITHOUT ADDITIONAL CHARGE AND TO INCLUDE REPLACEMENT OR REPAIR OF ANY OTHER PHASE OF THE INSTALLATION WHICH MAY HAVE BEEN DAMAGED THEREBY.
7. ALL REQUIRED INSURANCE TO BE PROVIDED FOR PROTECTION AGAINST PUBLIC LIABILITY OF PROPERTY DAMAGE FOR THE DURATION OF THE WORK.
8. CONTRACTOR TO PAY FOR ALL PERMITS, UTILITY FEES, INSPECTIONS AND TESTING.
9. ELECTRICAL INSTALLATION TO MEET ALL STANDARD REQUIREMENTS OF LOCAL POWER AND TELEPHONE COMPANIES.
10. MINIMUM WIRE SIZE SHALL BE #12 AWG, EXCLUDING CONTROL WIRING. UNLESS OTHERWISE NOTED, CONDUCTORS SHALL BE COPPER WITH THW/THHN INSULATION. CONDUCTORS #12 AND SMALLER MAY BE SOLID; ALL THOSE #10 AND LARGER TO BE STRANDED.
11. ALL UNDERGROUND RACEWAYS SHALL BE GALVANIZED RIGID STEEL CONDUIT OR SCHEDULE 40 PVC OR SCHEDULE 80 PVC. ALL OTHER RACEWAYS TO COMPLY WITH GOVERNING CODES. MINIMUM CONDUIT UNDERGROUND SHALL BE 3/4" CONDUIT UNLESS OTHERWISE NOTED.
12. OUTLET BOXES SHALL BE PRESSED STEEL IN DRY LOCATIONS, CAST ALLOY WITH THREADED HUBS IN WET OR DAMP LOCATIONS, AND BE OF SPECIAL CONSTRUCTION FOR OTHER CLASSIFIED AREAS. ALL BOXES SHALL BE RECESSED (FLUSH) IN WALLS OR CEILINGS WHENEVER POSSIBLE.
13. DISCONNECT SWITCHES SHALL BE H.P. RATED, GENERAL OR HEAVY DUTY WHERE INDICATED, QUICK-MAKE, QUICK-BREAK TYPE. ENCLOSURES SHALL BE AS REQUIRED BY N.E.C. AND LOCATION (WEATHERPROOF, EXPLOSION- PROOF, ETC.).
14. ALL GENERAL PURPOSE SWITCHES AND RECEPTACLES SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. CATALOG NUMBERS LISTED ARE LEVITON; HOWEVER, COMPARABLE DEVICES BY HUBBELL, PASS 4 SEYMOUR, OR ARROW HART WILL BE ACCEPTED. COLOR OF DEVICES AND PLATES SHALL BE AS DICTATED BY ARCHITECT/OWNER.
A. SWITCHES: #1221-2 SERIES.
B. RECEPTACLES: #T5362 SERIES. (TAMPER RESISTANCE DEVICES)
C. COVER PLATES: SMOOTH PLASTIC
NOTE: ALL OTHER REQUIRED DEVICES SHALL MATCH IN COLOR AND STYLE.
15. ALL RACEWAYS AND PIPES, SPACED IN OR THROUGH 1st FLOOR CONCRETE SLAB, SHALL BE SPACED A MINIMUM OF 3" APART AND IN OR THROUGH 2nd FLOOR AND ABOVE CONCRETE SLABS, SHALL BE SPACED A MINIMUM OF 6" APART.
16. IT IS NOT THE INTENT OF THESE PLANS TO SHOW EVERY MINOR DETAIL OF CONSTRUCTION. THE CONTRACTOR IS EXPECTED TO FURNISH AND INSTALL ALL ITEMS FOR A COMPLETE ELECTRICAL SYSTEM, AND PROVIDE ALL NECESSARY DEVICES AND COMPONENTS FOR EQUIPMENT TO BE PLACED IN PROPER WORKING ORDER.
17. ALL ELECTRICAL RACEWAYS (METALLIC AND NONMETALLIC) SHALL HAVE AN EQUIPMENT GROUND CONDUCTOR SIZED IN ACCORDANCE WITH THE 2020 EDITION OF THE N.E.C.
18. LOAD DATA IS BASED ON INFORMATION GIVEN ENGINEER AT THE TIME OF DESIGN. VERIFY ALL EQUIPMENT NAMEPLATE RATINGS BEFORE ORDERING.
19. CIRCUITS SHOWN ON PLANS ARE TO DETERMINE LOAD DATA AND PANEL SIZES. THE CONTRACTOR IS TO PROVIDE CIRCUITS AND ROUTING OF CONDUITS TO SUIT JOB CONDITIONS.
20. FURNISH AND INSTALL DISCONNECT SWITCHES, WIRING, AND CONNECTIONS ON AIR CONDITIONING SYSTEM AS SHOWN ON PLANS. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE WITH MECHANICAL CONTRACTOR REGARDING SUPPLY AND INSTALLATION OF ALL REQUIRED CONTROLS.
21. ALL SWITCHGEAR SHALL BE THE PRODUCT OF A SINGLE MANUFACTURER. SYSTEM DESIGN IS BASED ON THE SQUARE "D" COMPANY; HOWEVER, COMPARABLE EQUIPMENT BY EATON, G.E., AND SIEMENS WILL BE ACCEPTABLE. TANDDEM AND HALF-SPACE CIRCUIT BREAKERS SHALL NOT BE USED. PROVIDE ARC FLASH WARNING SIGNAGE PER N.E.C. 110.16 FOR ALL SWITCHBOARDS AND PANELS.
22. WHERE SPECIFIED, UNDER OTHER NOTES AND SPECIFICATION SECTION, WITHIN THIS DOCUMENT, UNDERGROUND PVC CONDUIT RUNS SHALL HAVE RIGID STEEL ELBOWS AND RIGID STEEL SECTIONS AT SLAB PENETRATIONS. WHERE RIGID STEEL IS USED, IT SHALL BE COMPLETELY COATED WITH AN ALKALI AND RUST-RESISTANT BITUMASTIC PAINT, AND THREADS SHALL BE COATED WITH ZINC CHROMATE.
23. THE ELECTRICAL CONTRACTOR SHALL MEET AND COORDINATE WITH THE LOCAL UTILITY COMPANIES AT THE SITE PRIOR TO CONSTRUCTION. AT THAT TIME, THE CONTRACTOR SHALL COORDINATE ALL RELATED WORK WITH THE UTILITY COMPANIES' REPRESENTATIVES TO MEET THE OWNER'S SCHEDULE.
24. ALL ELECTRICAL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
25. CONTRACTOR SHALL BE RESPONSIBLE FOR SEALING ALL CONDUIT PENETRATIONS MADE THROUGH FIRE RATED WALLS, CEILINGS, SLABS, ETC. PENETRATION SEALS SHALL BE PER UL. ASSEMBLY STANDARDS.
26. CONDUIT SYSTEM REQUIREMENTS:
UNDERGROUND - PVC WITH RIGID 90 THROUGH SLAB - WHERE REQUIRED IN OTHER SECTION OF THIS DOCUMENT. ABOVE FINISH FLOOR, CEILINGS, ETC. (INDOOR) - EMT WITH DIECAST SET SCREEN FITTINGS. GALVANIZED RIGID CONDUITS - ABOVE GRADE AND WHERE SUSCEPTIBLE TO PHYSICAL DAMAGE. FLEXIBLE CONDUITS - INDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0". SEALTITE - OUTDOOR, ONLY SHORT RUNS NOT TO EXCEED 6'-0". MC CABLE - ONLY AS APPROVED ELSEWHERE IN THIS DOCUMENT.
27. CONDUCTOR COLOR CODING:
THE FOLLOWING APPLICABLE COLOR CODES SHALL BE IMPLEMENTED AND POSTED IN ALL PANELS, DISCONNECT SWITCHES, ETC., PER NEC ARTICLES 200.6(D) AND 215.12:
PHASE 'A' BLACK
PHASE 'B' RED
PHASE 'C' BLUE
NEUTRAL WHITE
GROUND GREEN
ISOL. GROUND GREEN/YELLOW
120/240V, 1-PH. BLACK
120/208V, 3-PH. BLACK
RED
BLUE
WHITE
GREEN
GREEN/YELLOW
277/480V, 3-PH. BROWN
ORANGE
YELLOW
GRAY
GREEN
-
28. GFI RECEPTACLES
ALL RECEPTACLES WITHIN SIX FEET OF A WATER SOURCE SHALL BE A GFI RECEPTACLE OR PROTECTED BY A GFI BREAKER PER NFPA 70 (NEC) ARTICLE 210.8. THIS NOTE APPLIES TO ALL SHEETS.
29. 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 125.
30. ALL OUTDOOR RECEPTACLES SHALL BE WEATHER RESISTANCE RATED, GFI-TYPE WITH "WET WHILE IN USE" COVERS.
31. WHERE WIRE SIZES ARE SHOWN ON PLANS OR IN PANEL SCHEDULE, THE SAME WIRE SIZE, AS A MINIMUM, SHALL BE CARRIED THROUGHOUT THE CIRCUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS.
32. THERE SHALL BE NO MORE THAN (6) SIX CURRENT CARRYING CONDUCTORS IN ANY ONE CONDUIT, UNLESS SPECIFICALLY NOTED OTHERWISE ON THE PLANS.

NOTES

- 1. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL DRAWINGS AND SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ARCHITECTURAL, STRUCTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL PRIOR TO SUBMITTING A BID.
2. REPORT ANY DISCREPANCIES TO ARCHITECT OR ENGINEER PRIOR TO BID.
3. BIDDERS ARE TO VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND SATISFY THEMSELVES AS TO THE NATURE AND SCOPE OF THE WORK.
4. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING SITE CONDITIONS INCLUDING BUT NOT LIMITED TO, SERVICE LOCATION, SERVICE LAYOUTS, AND TELEPHONE LOCATION, ETC.
5. THE SUBMISSION OF A BID WILL BE EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED, OR FOR ANY DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD AN EXAMINATION BEEN MADE, WILL NOT BE ALLOWED.
6. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY THE ARCHITECT OF ANY DISCREPANCIES ENCOUNTERED ON THE PLANS OR IN EXISTING SITE CONDITIONS PRIOR TO SUBMISSION OF BID.
7. COORDINATE WITH OTHER TRADES FOR ITEMS IN THEIR SCOPE OF WORK WHICH WOULD REQUIRE ELECTRICAL WORK (DISCONNECTION, RECONNECTION, ETC.) AND ARE NOT INDICATED ON ELECTRICAL DRAWINGS.
THESE NOTES APPLY TO ALL ELECTRICAL SHEETS.

2023 FLORIDA BUILDING CODE, ENERGY CONSERVATION (8TH EDITION)

SECTION C405.5 ELECTRIC POWER

C405.5.3 VOLTAGE DROP
THE CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS COMBINED ARE DESIGNED AND SIZED FOR A MAXIMUM OF 5% VOLTAGE DROP TOTAL.

C405.5.4.1 DRAWINGS
CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT WITHIN 30 DAYS AFTER THE DATE OF SYSTEM ACCEPTANCE, RECORD DRAWINGS OF THE ACTUAL INSTALLATION SHALL BE PROVIDED TO THE BUILDING OWNER, INCLUDING:
1. A SINGLE-LINE DIAGRAM OF THE BUILDING ELECTRICAL DISTRIBUTION SYSTEM AND
2. FLOOR PLANS INDICATING LOCATION AND AREA SERVED FOR ALL DISTRIBUTION.

C405.5.4.2 MANUALS
CONSTRUCTION DOCUMENTS SHALL REQUIRE THAT AN OPERATING MANUAL AND MAINTENANCE MANUAL BE PROVIDED TO THE BUILDING OWNER. THE MANUALS SHALL INCLUDE, AT A MINIMUM, THE FOLLOWING:
1. SUBMITTAL DATA STATING EQUIPMENT RATINGS AND SELECTED OPTIONS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE.
2. OPERATION MANUALS AND MAINTENANCE MANUALS FOR EACH PIECE OF EQUIPMENT REQUIRING MAINTENANCE. REQUIRED ROUTINE MAINTENANCE ACTIONS SHALL BE CLEARLY IDENTIFIED.
3. NAMES AND ADDRESSES OF AT LEAST ONE QUALIFIED SERVICE AGENCY.

SECTION C408 SYSTEM COMMISSIONING

C408.3.1 FUNCTIONAL TESTING:
1. PRIOR TO PASSING FINAL INSPECTION, THE REGISTERED DESIGN PROFESSIONAL SHALL PROVIDE EVIDENCE THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S INSTRUCTIONS. FUNCTIONAL TESTING SHALL BE IN ACCORDANCE WITH SECTIONS C408.3.1.1 THROUGH C408.3.1.3 FOR THE APPLICABLE CONTROL TYPE.
C408.3.2 DOCUMENTATION REQUIREMENTS:
1. THE CONSTRUCTION DOCUMENTS SHALL SPECIFY THAT DOCUMENTS DESCRIBED IN THIS SECTION BE PROVIDED TO THE BUILDING OWNER'S AUTHORIZED AGENT WITHIN 90 DAYS FROM THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

NOTES

- 1. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND INTERIOR ELEVATIONS FOR COORDINATION OF LOCATIONS OF LIGHTING FIXTURES.
2. GROUND CONDUCTOR SHALL BE INSTALLED IN ENTIRE RACEWAY SYSTEM INCLUDING WALL SWITCHES AND FLEXIBLE CONDUIT TO LIGHT FIXTURES.
3. ALL TELEPHONE/DATA/VOICE JACKS AND CABLING TO BE PROVIDED AND INSTALLED BY OWNER'S VENDOR.
4. CONTRACTOR SHALL REFER TO INTERIOR ARCHITECTURAL DRAWINGS FOR COORDINATION OF MOUNTING HEIGHTS AND/OR LOCATIONS OF AND WIRING DEVICES.
5. ELECTRICAL CONTRACTOR SHALL VERIFY AND COORDINATE ALL DEVICE TYPES, LOCATIONS AND QUANTITIES WITH OWNER'S REPRESENTATIVE AND PROVIDE ACCORDINGLY.
6. LIGHTING SWITCHES SHALL BE GROUPED WITH ONE PLATE AND LOCATED APPROXIMATELY 2 INCHES FROM DOOR FRAME (STRIKE SIDE) UNLESS OTHERWISE NOTED.
7. ALL EXPOSED CONDUIT SHALL BE RUN PARALLEL TO OR AT RIGHT ANGLES TO STRUCTURE.

LEGEND

MOUNTING HEIGHTS SHOWN ARE MAXIMUM/MINIMUM HANDICAPPED ACCESSIBILITY STANDARDS - THEY SHALL NOT BE ALTERED WITHOUT WRITTEN AUTHORIZATION.

NOT ALL DEVICES SHOWN IN LEGEND ARE REQUIRED. REVIEW POKER AND LIGHTING PLANS AND DETAILS FOR ITEMS WHICH APPLY TO THIS PROJECT.

- LINEAR LIGHT FIXTURE, LETTER INDICATES TYPE
DOWNLIGHT LIGHT FIXTURE, LETTER INDICATES TYPE
WALL BRACKET LIGHT FIXTURE, LETTER INDICATES TYPE
LIGHT FIXTURE ON EMERGENCY CIRCUIT/NIGHT LIGHT (NL)
EXIT LIGHT (ARROW INDICATES DIRECTION)
BATTERY POWERED EMERGENCY LIGHT
(1) HEAD REMOTE EXTERIOR MOUNTED EMERGENCY LIGHT.
(2) HEAD REMOTE EXTERIOR MOUNTED EMERGENCY LIGHT.
TRACK LIGHTING
S1 SINGLE POLE SWITCH, LOWER CASE LETTER INDICATES LIGHT CONTROLLED, MOUNT 48" A.F.F. U.O.N.
S2 DOUBLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.
S3 THREE-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.
S4 FOUR-WAY SWITCH, MOUNT 48" A.F.F. U.O.N.
S5 SINGLE POLE SWITCH WITH PILOT LIGHT, MOUNT 48" A.F.F. U.O.N.
S6 KEY OPERATED SINGLE POLE SWITCH, MOUNT 48" A.F.F. U.O.N.
S7 FAN CONTROLLER, MOUNT 48" A.F.F. U.O.N.
S8 DIMMER SWITCH, TYPE AS NOTED, MOUNT 48" A.F.F. U.O.N.
R INDUSTRIAL SPECIFICATION GRADE SINGLE RECEPTACLE, AMPS AS NOTED, MOUNT 18" A.F.F. U.O.N.
R1 INDUSTRIAL SPECIFICATION GRADE DUPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.
R2 INDUSTRIAL SPECIFICATION GRADE DUPLEX RECEPTACLE, MOUNT ABOVE COUNTER HEIGHT U.O.N.
R3 INDUSTRIAL SPECIFICATION GRADE QUADRAPLEX RECEPTACLE, MOUNT 18" A.F.F. U.O.N.
R4 INDUSTRIAL SPECIFICATION GRADE DUPLEX RECEPTACLE, HORIZONTALLY MOUNTED.
R5 1 PH, 250V, RECEPTACLE, AMPS AS NOTED, MOUNT 18" A.F.F. U.O.N.
R6 SPECIAL RECEPTACLE AS NOTED
R7 INDUSTRIAL SPECIFICATION GRADE FLOOR MOUNTED DUPLEX RECEPTACLE
R8 INDUSTRIAL SPECIFICATION GRADE GROUND FAULT INTERRUPTER RECEPTACLE, LEVITON #55362-WT WEATHER & TAMPER RESISTANCE, MOUNT ABOVE COUNTER HEIGHT U.O.N.
R9A INDUSTRIAL SPECIFICATION GRADE DUPLEX RECEPTACLE, ISOLATED GROUND TYPE, LEVITON #T5362-IG MOUNT AT 18" A.F.F. U.O.N.
R10 INDUSTRIAL SPECIFICATION GRADE DUPLEX RECEPTACLE, SPLIT WIRE, MOUNT 18" A.F.F. U.O.N.
R11 DUPLEX RECEPTACLE, WEATHER, TAMPER RESISTANCE AND GFI RATED, LEVITON #55362-WT, WITH WEATHERPROOF BOX AND COVER, MOUNT AT 18" A.F.F. U.O.N.
R12 20 AMP DUPLEX RECEPTACLE WITH (2) USB CHARGING PORTS, TAMPER & WEATHER RESISTANCE. HUBBELL #5520AC5-xx-HR, MOUNT AT 18" A.F.F. U.O.N.
R13 TELE/DATA OUTLET, PROVIDE 4" SQ. BOX WITH 1-GANG MID RING AND 1" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT ABOVE COUNTER HEIGHT U.O.N.
R14 TELE/DATA OUTLET, PROVIDE 4" SQ. BOX WITH 1-GANG MID RING AND 1" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.

- CONDUIT CONCEALED IN HALL OR ABOVE CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
CONDUIT CONCEALED BELOW FLOOR SLAB OR FINISHED GRADE WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
CONDUIT EXPOSED ON HALL OR CEILING WITH CONDUCTORS AS SHOWN ON PANEL SCHEDULE U.O.N.
TELEVISION SYSTEM EMPTY CONDUIT WITH PULL WIRE
FLEXIBLE CONDUIT NOT TO EXCEED 6 FEET IN LENGTH
D.C. VOLTAGE WIRING (#10 WIRE IN 1/2" CONDUIT)
WIREHOLD (SIZE AND LENGTH AS NOTED)
CONDUIT SEAL-OFF FITTING
PADDLE FAN WITH BACKBOX CAPABLE OF SUPPORTING 100 LB. LOAD
T.V. CAMERA
T.V. MONITOR
TELEVISION OUTLET, PROVIDE SINGLE GANG BOX WITH 3/4" CONDUIT WITH PULL WIRE AND INSULATING BUSHING STUBBED INTO CEILING SPACE. MOUNT BOX 18" A.F.F. U.O.N.
DISCONNECT SWITCH
DISCONNECT DESIGNATION (SIZE/POLES/FUSE) "NF" INDICATES NON-FUSED, "DE" INDICATES DUAL ELEMENT FUSES.
MAGNETIC MOTOR STARTER
COMBINATION MAGNETIC MOTOR STARTER/DISCONNECT SWITCH
DRY TYPE TRANSFORMER
CONTACTOR (AS NOTED)
TIME CLOCK
PHOTOCELL
MOTOR PERMANENTLY CONNECTED WITH FLEXIBLE CONDUIT
ELECTRIC DUCT HEATER
THERMOSTAT, PROVIDE SINGLE GANG BOX WITH 1/2" CONDUIT STUBBED INTO CEILING SPACE. MOUNT 60" A.F.F. U.O.N. (COORDINATE WITH MECHANICAL DRAWINGS PRIOR TO ROUGH-IN)
PUSHBUTTON, MOUNT 48" A.F.F. U.O.N.
DOOR CHIME WITH TRANSFORMER
SPEAKER
JUNCTION BOX (FLUSH MOUNT IN FINISHED AREAS U.O.N)
DEVICE AS NOTED
TELEPHONE BACKBOARD WITH #6 CU. GROUND (SIZE AS NOTED)
277/480V, 3-PHASE PANELBOARD
LIGHTING OR POKER PANELBOARD
FLOOR MOUNTED TELEPHONE RECEPTACLE
MAIN SWITCHBOARD
MAIN DISTRIBUTION PANEL

ABBREVIATIONS

Table with 4 columns: Equipment Ground, Electric Water Cooler, Night Light, Above Finish Grade, Isolated Ground, Exhaust Fan, Pull Chain, Unless Otherwise Noted, Weatherproof, Air Handling Unit, Current Transformer, Not to Scale, Empty Conduit, Condensing Unit, Existing Device, Not in Contract, Electric Water Heater, Roof Top Unit, Existing to be Relocated, Above Finish Floor, Ground Fault Circuit Interrupter.

NOTE: MOUNTING HEIGHTS NOTED ARE TO CENTERLINE OF DEVICE SHOWN U.O.N.

INDEX

- E001 : ELECTRICAL NOTES AND LEGEND
E100 : ELECTRICAL SITE PLAN
E101 : PHOTOMETRIC SITE PLAN
E102 : FIXTURE INFORMATION
E200 : ELECTRICAL PLAN
E300 : POWER RISER DIAGRAM
E400 : ELECTRICAL SPECIFICATIONS

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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 CHEHAYEB, P.E.
FL License No. 45321

Table with 2 columns: no., date

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

03.08.24
date

23068
comm. no.

ELECTRICAL
NOTES AND
LEGEND

E001

**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 SNEEP 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:**

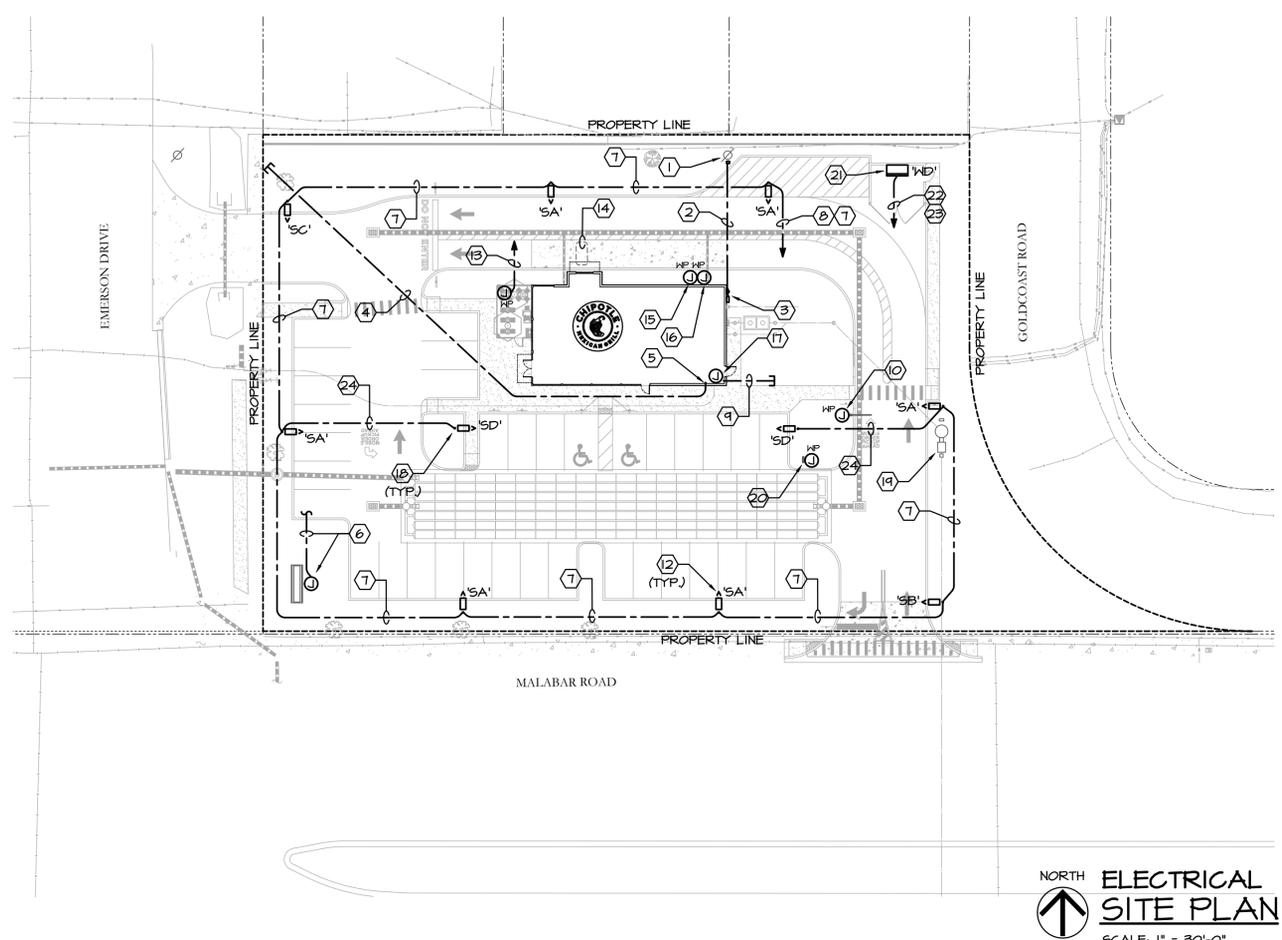
- A - ORIGIN AND TERMINATION OF THE SERVICE CONDUITS.
- B - INSTALLATION SPECIFICATIONS, SIZE AND QUANTITY REQUIRED. HOWEVER, MAINTAIN QUANTITY AND SIZES SHOWN ON PLANS, IF IN EXCESS OF UTILITY REQUIREMENTS.

**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.

**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 FULL 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 FULL STRINGS RUN THROUGH THE FOUNDATION WALL AT THE REAR OF THE BUILDING, CAPPED AND TERMINATED ABOVE THE CEILING. VERIFY LOCATION FOR STUB UP WITH THE 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 FULL 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 FULL 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 WET 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.



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

LIGHTING FIXTURE SCHEDULE						
TYPE	MANUFACTURER	CATALOG NO.	VOLT	LAMPS	LOAD (W)	MOUNTING
SA	LITHONIA LIGHTING	DSXI LED P4 40K TOCRI BLG4 MVOLT CBA	208	LED	124	SEE POLE DETAIL SHEET E101
SB	LITHONIA LIGHTING	DSXI LED P3 40K TOCRI LCCO MVOLT CBA	208	LED	103	
SC	LITHONIA LIGHTING	DSXI LED P3 40K TOCRI RCCO MVOLT CBA	208	LED	103	
SD	LITHONIA LIGHTING	DSXI LED P3 40K TOCRI T4M MVOLT H5 CBA	208	LED	103	
WD	LITHONIA LIGHTING	DSXII LED 100 1000 40K T3M MVOLT PIRIFC3V CBA	208	LED	39	WALL AT DUMPSTER

**GENERAL NOTES:**

- PROVIDE NECESSARY MOUNTING HARDWARE AND ACCESSORIES FOR ALL FIXTURES.
- ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).
- FIXTURE AND POLE FINISH COLOR AS SELECTED BY ARCHITECT.
- 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.

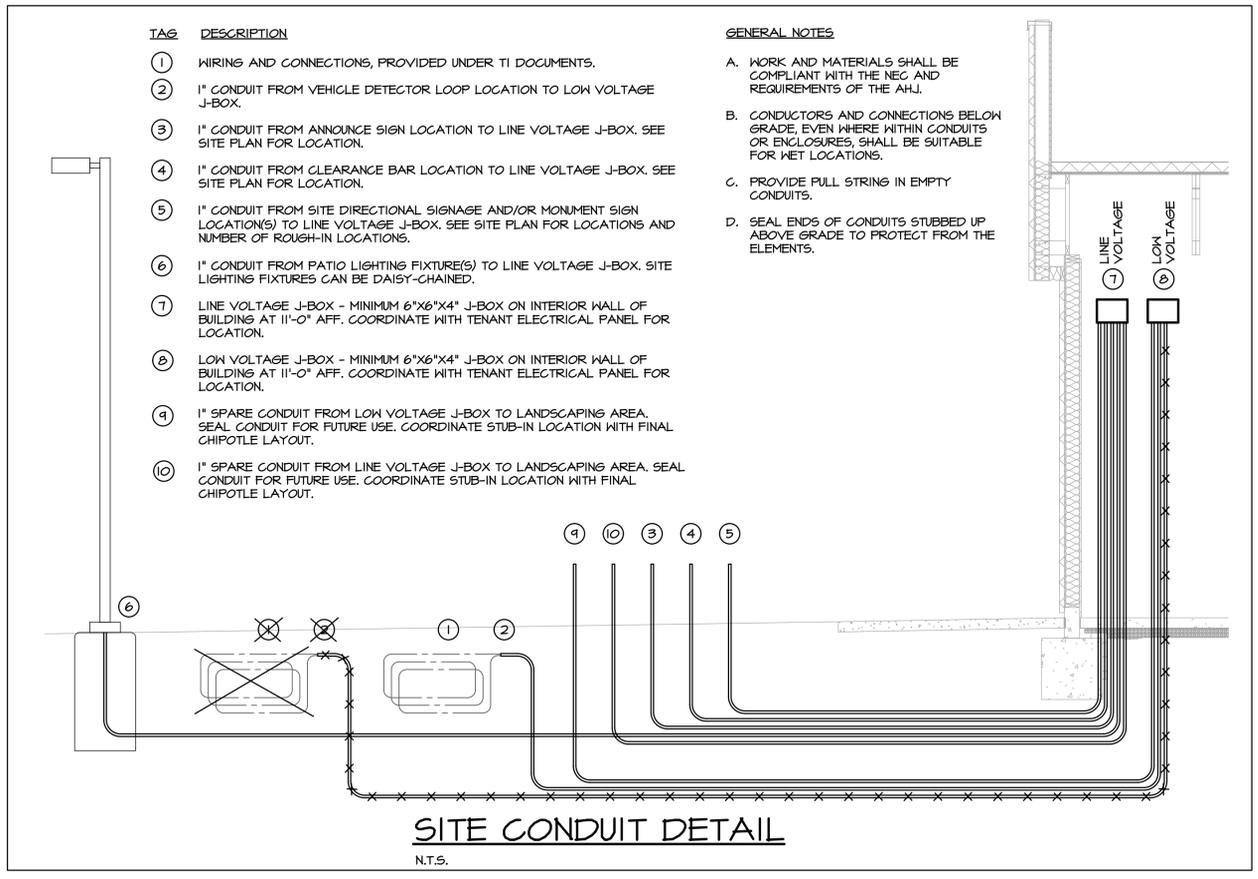
IT IS THE CONTRACTOR RESPONSIBILITY TO REVISIT THESE ITEMS WITH UTILITY PROJECT ENGINEER TO VERIFY THAT THE CURRENT DESIGN SHOWN ON THE CONSTRUCTION DOCUMENT(S) ARE STILL IN COMPLIANCE WITH THE UTILITY PLANS TO SERVICE THIS SITE.

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.

UTILITY CONTACTS	
<b>POWER COMPANY:</b> CONTACT: FP&L PROJECT #13022680 TELEPHONE No. (321) 726-4862 EMAIL ADDRESS: zineb.elkadire@fpl.com	<b>TELEPHONE COMPANY:</b> AT&T CONTACT: KIRK WALKER TELEPHONE No. - EMAIL ADDRESS: bw4222@att.com



**SITE CONDUIT DETAIL**  
N.T.S.

**FWH Architects**

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Holiday, Florida 34690  
Ph. 727. 815. 3336  
FABER+WH ARCHITECTS.COM

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

no.	date	revision descriptions

**CHIPOTLE MEXICAN GRILL  
BUILDING SHELL**

1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

03.08.24  
date

23068  
comm. no.

ELECTRICAL  
SITE PLAN

E 100

**CHEHAYEB & ASSOCIATES, INC.**  
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TAMPA, FL 33609 www.chehayeb.com

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





### ELECTRICAL MATERIAL SCHEDULE

CATEGORY	APPLICATION	ALLOWABLE MATERIAL
CONDUCTORS	#10 AWG AND SMALLER	SOLID CU, TYPE THHN/THWN OR XHHW
	#8 AWG AND LARGER	STRANDED CU, TYPE THHN/THWN OR XHHW
CONDUITS	INDOOR, EXPOSED	ELECTRICAL METALLIC TUBING U.N.O.
	INDOOR, WITHIN 1-1/2' OF ROOF DECK	INTERMEDIATE METAL CONDUIT
	INDOOR, CONCEALED ABOVE GRADE	ELECTRICAL METALLIC TUBING, FLEXIBLE METAL CONDUIT, OR METAL GLAD CABLE
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED WET OR DAMP LOCATIONS)	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
	CONNECTION TO VIBRATING EQUIPMENT (EXPOSED INDOOR DRY LOCATIONS)	FLEXIBLE METAL CONDUIT
	OUTDOOR, ABOVE GRADE, EXPOSED OR CONCEALED	INTERMEDIATE METAL CONDUIT
	LOW VOLTAGE, INDOOR, ABOVE GRADE	ELECTRICAL METALLIC TUBING
	LOW OR LINE VOLTAGE, BELOW GRADE	RIGID NON-METALLIC CONDUIT (SCHEDULE 40 PVC)

**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.

N93A

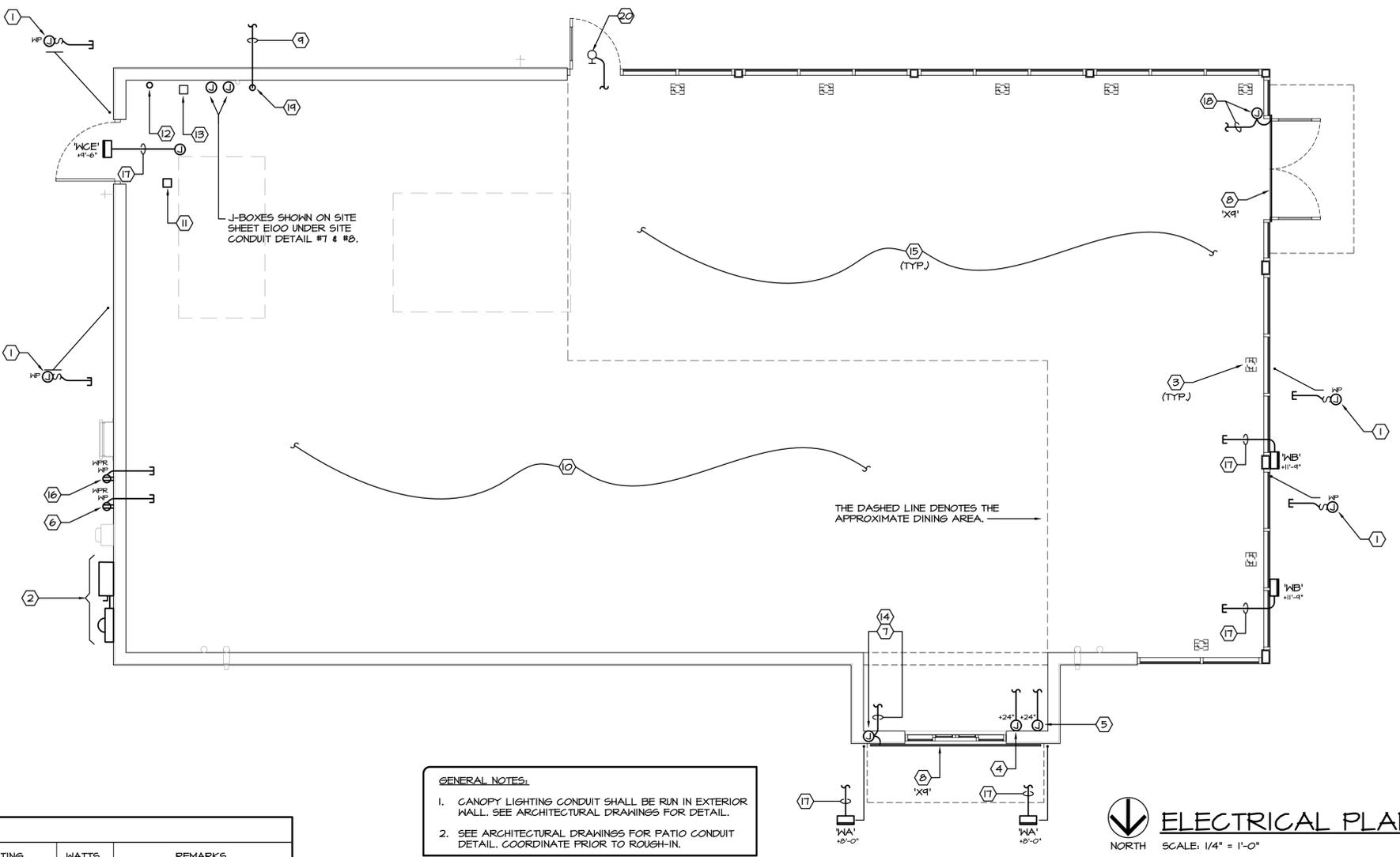
### FIXTURE SCHEDULE

TYPE	MANUFACT.	CATALOG NO.	VOLT	LAMPS	MOUNTING	WATTS	REMARKS
X9	PARADIGM LED	PL-P5-M200/M100/M40-DIM-24 (LED DRIVER) FLEXSR-45-30-61C-24-XX (LED LINEAR RIBBON, OUT DOOR RATED) AMC-2410-S-XX-EC/ECL-0 (LED LINEAR STRIP CHANNEL WITH OPAL LENS)  (COORDINATE ALL CAT. NO. WITH MANUFACTURER, PARADIGM LED AT 303-391-0386 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 WLF	REFER TO ARCH. ELEVATIONS FOR MOUNTING INFORMATION FURNISHED BY REMOTE-MTD NEMA 3R DIMMABLE LED DRIVER SEE PLANS FOR LENGTHS
WA	RAB LIGHTING, INC.	[WP, A]LED10Y	120	LED	EXTERIOR WALL	12	SEE ARCHITECTURAL EXTERIOR ELEVATION FOR LOCATION
WB	LITHONIA	DSXWH-LED-10C-1000-40K-T3M-MVOLT	120	LED	EXTERIOR WALL	39	SEE ARCHITECTURAL EXTERIOR ELEVATION FOR LOCATION
WCE	LITHONIA	DSXWH-LED-10C-1000-40K-T3M-MVOLT-ELGH	120	LED	EXTERIOR WALL WITH BACKUP BATTERY	39	SEE ARCHITECTURAL EXTERIOR ELEVATION FOR LOCATION

CBA = COLOR SELECTED BY ARCHITECT.

**NOTES:**

- WHERE USED, ALL FLUORESCENT LIGHTING FIXTURES SHALL HAVE ENERGY SAVING TS, TSHO, OR T8 LAMPS WITH ELECTRONIC BALLASTS.
- 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.
- ALL FIXTURE SUBSTITUTIONS MUST BE SUBMITTED FOR APPROVAL (EQUALS ONLY).
- ALL EMERGENCY, EXIT, AND NIGHT LIGHT FIXTURES SHALL BE CONNECTED AHEAD OF LOCAL SWITCHES, RELAYS, OR CONTACTORS UNLESS OTHERWISE NOTED.
- ALL PRE SUBMITTALS SHALL BE ACCOMPANIED WITH PHOTOMETRIC DATA.
- ALL FIXTURES SHALL BE SUPPORTED FROM STRUCTURE AND NOT FROM SUSPENDED CEILING SYSTEM.
- EQUAL ACCEPTED MANUFACTURERS ARE: DAY-BRITE, LITHONIA, COLUMBIA. EVEN THOUGH THESE MANUFACTURERS ARE ACCEPTED, A TEN DAY PRIOR APPROVAL MUST BE SUBMITTED FOR EVALUATION.
- 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.
- WHERE USED, ALL LINEAR TYPE FLUORESCENT LUMINAIRES SHALL COMPLY WITH N.E.C. 410.106(B) FOR BALLAST DISCONNECT.
- WHERE USED, LAMPS SHALL BE ENERGY SAVING WITH COLOR TEMPERATURE AS SHOWN ON SCHEDULE WITH MINIMUM CRI OF 82.
- WHERE USED, LAMPS SHALL BE BY SYLVANIA, GE, OR PHILIPS, EXCEPT WHEN SUCH LAMPS ARE NOT AVAILABLE FROM THESE MANUFACTURERS, OR SPECIFIED OTHERWISE IN SCHEDULE.
- SHOP DRAWINGS SHALL INCLUDE:
  - COMPLETE FIXTURE CUT SHEETS INCLUDING PHOTOMETRICS.
  - BALLAST CUT SHEETS.
  - LAMP CUT SHEETS.
- UNLESS OTHERWISE NOTED, (NLT) 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.
- 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 7.9.3.1.1.
- COORDINATE TRACK LENGTH WITH PLAN AND CUT ACCORDINGLY, IF NOT A STANDARD TRACK LENGTH.
- 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.
- PROVIDE WIRING AS REQUIRED FOR STEP DIMMING FIXTURES. CONTROL WIRING NOT SHOWN ON THESE DOCUMENTS FOR DRAWING CLARITY.



**GENERAL NOTES:**

- CANOPY LIGHTING CONDUIT SHALL BE RUN IN EXTERIOR WALL. SEE ARCHITECTURAL DRAWINGS FOR DETAIL.
- SEE ARCHITECTURAL DRAWINGS FOR PATIO CONDUIT DETAIL. COORDINATE PRIOR TO ROUGH-IN.

- NOTES**
- 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.
  - ELECTRICAL SERVICE LOCATION. REFER TO POWER RISER DIAGRAM ON SHEET E300 FOR ADDITIONAL DETAILS.
  - SHOW WINDOW RECEPTACLES, IN ACCORDANCE WITH N.E.C. 210.62, TO BE FURNISHED AND INSTALLED BY OTHERS, AT TIME OF TENANT IMPROVEMENTS.
  - PROVIDE J-BOX WITH 1-GANG PLASTER RING FOR AN 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.
  - 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.
  - DUPLEX RECEPTACLE WITH 1/2" CONDUIT WITH PULL WIRE STUBBED AT THE CEILING STRUCTURE FOR MAINTENANCE.
  - J-BOX FOR POWERING EXTERIOR LIGHTING SHOWN. PROVIDE 2-#10, 1-#10 E.G. IN 3/4" CONDUIT TO ABOVE PROPOSED TENANT PANEL LOCATION.
  - EXTERIOR LIGHT FIXTURE. SEE ARCHITECTURAL PLANS SHEETS A404 AND A405 FOR EXACT LOCATIONS AND MOUNTING HEIGHTS.
  - TELEPHONE/DATA CONDUIT WITH PULL WIRE. COORDINATE EXACT LOCATION WITH TENANT. CONDUIT SHALL BE STUBBED UP 12", CAPPED AND LABELED IN SPACE. SEE SITE PLAN SHEET E100 FOR CONTINUATION.
  - 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.
  - OPTIONAL BOOSTER PUMP, TO BE POWERED UNDER INTERIOR DESIGN PACKAGE, IF REQUIRED.
  - STUB-UP CONDUITS WITH FEEDER WIRE. SEE RISER DIAGRAM SHEET E300. VERIFY EXACT LOCATION PRIOR TO ROUGH-IN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL LOCATION.
  - 8"x8"x4" J-BOX AT 11'-0" A.F.F. FOR CONNECTION OF THE CONDUITS AND CONDUCTORS FROM SITE LIGHTING.
  - 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.
  - NO CONDUITS SHALL BE RUNNING WITHIN THIS AREA. CEILING WILL BE EXPOSED TO STRUCTURE IN THIS AREA.
  - DUPLEX RECEPTACLE WITH 1/2" CONDUIT WITH PULL WIRE STUBBED AT THE CEILING STRUCTURE FOR IRRIGATION CONTROLLER.
  - 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.
  - 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.
  - 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.
  - 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.

**ELECTRICAL PLAN**

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

**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-UPS 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-UP 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-UPS 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.

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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 CHEHAYEB, P.E.  
FL License No. 49521

no.	revision descriptions	date

**CHIPOTLE MEXICAN GRILL  
BUILDING SHELL**

1491 EMERSON DR. NE,  
PALM BAY, FLORIDA 32907

03.08.24  
date

23068  
comm. no.

ELECTRICAL PLAN

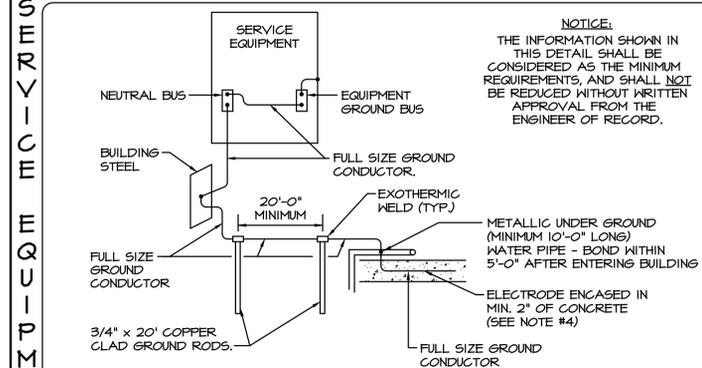
**E200**

**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) A/V104-2000 "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 WHITTLING 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, ALGU, ALTCU, OR AL4CU.
  - 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**



- 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

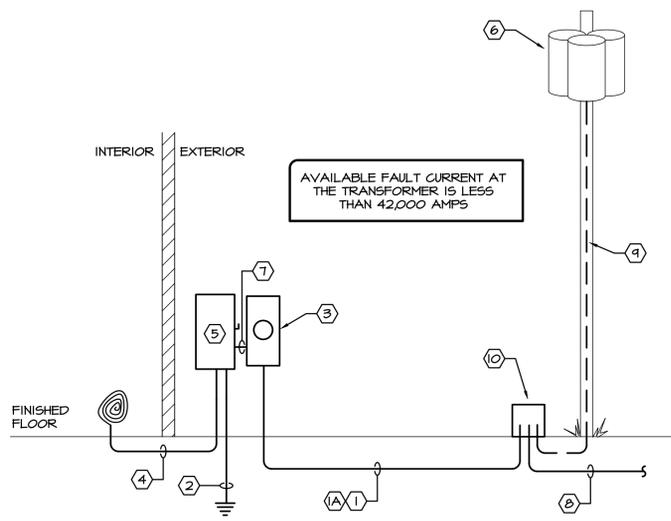
**CHIPOTLE ESTIMATED KVA LOAD (BASED ON A SIMILAR STORE)**

INTERIOR LTG -	3.0 KVA @ 125%	= 4.0 KVA
EXTERIOR LTG -	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 TO (NEC) 110.16, AND PERSONAL PROTECTIVE EQUIPMENT (PPE) RATING PLACARDS PER NFPA 70E FOR ALL SWITCHGEAR.

N41A

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POWER RISER  
DIAGRAM

**E300**

DIVISION 16 – ELECTRICAL

SECTION 16010 – GENERAL PROVISIONS

- 1. GENERAL
1.01 The following are minimum requirements and shall govern, except that building laws and/or drawings shall govern when their requirements are in excess thereof.
2. DRAWINGS AND SPECIFICATIONS
2.01 The architectural, mechanical, electrical and equipment drawings and specifications are hereby incorporated into and become a part of this Division.
2.02 Electrical drawings are diagrammatic and are intended to show the approximate locations of equipment and piping.
2.03 The exact locations of apparatus, fixtures, equipment and conduits shall be ascertained from the Owner's representative in the field, and the work shall be laid out accordingly.
2.04 The electrical drawings and specifications are intended to supplement each other and any material or labor called for in one shall be furnished and supplied even though not specifically mentioned in both.
2.05 The work required under these specifications includes all labor, materials, equipment and services necessary to provide lighting and power systems, service entrances, motor controls and connections, branch circuiting, feeders, panels, fixtures, wiring devices, and other items shown on the plans or specified.
2.06 When the specification of an item is not identified with a particular area, the item shall pertain to all areas.
2.07 This Contractor shall furnish such labor and materials as hereinafter specified and as required to complete all electrical connections in accordance with the manufacturer's requirements for all mechanical equipment and Owner's equipment as shown and/or specified.
3. EXAMINATION OF SITE
3.01 Bidder is to visit the site and familiarize himself with existing conditions and satisfy himself as to the nature and scope of work.
4. DEFINITIONS
4.01 "Install" shall mean to place, fix in position, secure, anchor, wire, etc., including necessary appurtenances and labor so that equipment or installation will function as specified and intended.
4.02 "Furnish" shall mean to purchase and supply equipment or components.
4.03 "Provide" shall mean to "furnish and install".
4.04 "Or approved equal" shall mean equal in type, design, quality, style, color, etc., as determined by the Engineer/Architect.
5. INTERFERENCES
5.01 It shall be the duty of this Contractor to report any interferences between his work and that of any other Contractor to the Owner or Architect as soon as they are discovered.
6. MATERIALS AND WORKMANSHIP
6.01 All work shall be installed in a practical and workmanlike manner by competent workmen, skilled in their branch of the trade.
6.02 Unless otherwise specified or indicated on the drawings, all materials shall be new and free from defects and shall be the best of their several kinds.
6.03 All material and equipment shall meet or exceed standards specified by UL, NEMA, ANSI and IEEE wherever such standards have been established.
6.04 From time-to-time during the operation and at the completion thereof, this Contractor shall remove all debris and excess materials caused by his work and he shall leave the area of the operation branch clean.
6.05 All electrical equipment and material shall bear the Underwriter's Laboratories label.
7. SUPPORTS
7.01 This Contractor shall furnish and install all angle iron, channel iron, rods, supports or hangers required to install or mount panelboards, switchboards, or any electrical equipment called for on the plans, in these specifications, or as necessary to mount any piece of electrical equipment, material, or device.
8. TEMPORARY CONSTRUCTION POWER AND LIGHTING
8.01 Sufficient temporary power, during construction, for heating, lighting, appliances, or motorized portable equipment shall be provided by the Electrical Contractor.
9. CODES, LAWS, PERMITS AND INSPECTIONS
9.01 Install all work in full accordance with codes, rules and regulations of municipal, city, county, state and public utility, and all other authorities having jurisdiction over the premises.
9.02 Comply with specification requirements which are in excess of code requirements and not in conflict with same.
9.03 The Contractor shall secure all permits and certificates of inspection incidental to the work, required by foregoing authorities.
10. FIELD CHANGES (AS BUILT DRAWINGS)
10.01 Keep one (1) set of working drawings and shop drawings at the job site for sole purpose of recording all changes made during construction.
11. LABELING AND NAMEPLATES
11.01 Permanently label transformers, switchboards, panelboards, time switches and safety switches indicating equipment or panels and areas which they serve.
11.02 Lighting and appliance panels shall be labeled as shown on drawings.
11.03 Electrical Contractor shall furnish and install identification for pull or junction boxes furnished by him.
11.04 Identify as to use on face of equipment by means of laminated black and white phenolic label with 3/8" letters engraved through black to white.
11.05 Materials
A. Nameplates: Engraved three-layer laminated plastic, white letters on a black background.

- 11.06 Installation
A. Degrease and clean surfaces to receive nameplates and tape labels.
B. Install nameplates and tape labels parallel to equipment lines.
C. Secure nameplates to equipment fronts using screws, rivets or adhesive.
D. Mark every junction or pull box cover plates with the circuit number(s) of all wires contained therein.
11.07 Wire Identification:
A. Provide wire markers on each conductor at terminal strips and at final line and load connections.
B. All wires shall be color coded.
12. GUARANTEE
12.01 In addition to guarantees of equipment by manufacturer of same, this Contractor shall also guarantee equipment provided by him and shall be held for a period of one (1) year to make good any defects in material and workmanship occurring during this period.
13. SCOPE OF WORK
13.01 Furnish all labor and material necessary to complete the electrical work shown on the drawings, specified herein or required to complete the construction of the building as shown.
13.02 The listing herein of article or material, operation or method, required to be provided and installed by the Contractor (unless noted to be supplied by others) shall be of quality or subject to qualifications as noted.
13.03 The electrical Contractor shall schedule his work to conform to the progress of the other trades and Contractors employed on this project.
13.04 The electrical work shall include but is not limited to the following:
A. Complete power and lighting distribution systems including panels, as shown on plans.
B. Complete branch circuit wiring system.
C. Temporary electric service as required for construction.
D. Testing of all electrical equipment.
14. MANDATORY SHOP DRAWINGS
14.01 Submit a minimum of five (5) copies of all required electrical shop drawings.
14.02 Shop Drawings shall be submitted for:
Switchgear and surge suppressors
All Lighting Fixtures
All Wiring Devices
All Lighting Controls
END OF SECTION 16010

SECTION 16100 – BASIC MATERIALS AND METHODS

- 1. CONDUIT
1.01 All wire shall be run in accordance with the applicable codes in corrosion resistant, rigid, threaded, metal conduit or electrical metallic tubing (E.M.T.), unless otherwise specifically stated herein.
A. Conduit below first floor slab, exposed to weather, or underground shall be rigid, threaded, galvanized, heavy wall type.
B. Carlon PVC, Type 40 heavy wall conduit with ground wire may be used underground below floor slab or pavement in lieu of rigid, threaded, galvanized conduit.
C. A ground conductor shall be supplied in all conduits and raceways.
D. PVC conduit run beneath areas subject to heavy vehicular traffic such as commercial parking areas, drive through, etc. shall be concrete encased.
E. PVC conduit used between lighting standards shall be Carlon Type 40 min. and comply with NEMA TC-2, TC-3, and UL-651 (Standard).
1.02 Conduit and E.M.T. shall be delivered to the building in 10-foot lengths and each length shall have the Underwriter's Laboratories label.
1.03 Conduit and E.M.T. shall be run concealed in all finished areas of the building.
1.04 E.M.T. connectors and couplers shall be rain light type made of die cast as manufactured by Thomas & Betts, Steel City, or Appleton.
1.05 Conduit shall be securely fastened in place at no more than 8-foot centers, and hangers, supports or fastenings shall be provided at each conduit, elbow and at the end of each straight run, terminating at a box or cabinet.
1.06 Horizontal and vertical conduit runs shall be supported by one-half malleable straps or other approved metal device with suitable bolts, expansion shield or beam clamp for mounting to building structure or special brackets.
1.07 Armored cable (BX) or nonmetallic sheathed cable (Romex) shall not be used.
1.08 No aluminum conduit shall be used.

- 1.09 Only short runs of flexible metal conduit not over 6' in length and having a ground conductor, shall be used for terminal connections to motors and also for electrical equipment where it is not practical to make final connection with rigid conduit.
1.10 Exposed conduit and conduit in ceiling space shall be run parallel to the building structure.
1.11 Conduit system shall conform to all the requirements of the National Electrical Code (N.E.C./N.F.P.A.-70) and local codes.
1.12 ~~Metal Clad (MC) cable may be used where allowed by these drawings and conform to notes shown on sheet E001--~~
2. CONDUCTORS
2.01 Sizes of conductors for feeders are given on the drawings and no wire smaller than #12 gauge shall be used for branch lighting or power circuits.
A. The gauge of all wire shall be in accordance with B&S standard.
2.02 All wire and cable for branch lighting or small power circuits shall have "NEC" Type "THHN/THWN" 600-volt insulation.
2.03 Wire and cable #10 gauge and above shall be stranded Type "THWN" insulated for 600-volts.
2.04 For special conditions, as provided by the National Electrical Code, Type "R.H.H., A.V.A." or other required insulation shall be used.
2.05 Where lighting fixtures are used as raceways, 90 degree C. minimum insulated wire shall be used.
3. GROUNDING
3.01 This Contractor shall provide, install and connect a complete system of grounding for all equipment and structures.
3.02 Electrical system and equipment grounds shall comply with the N.E.C. as well as all local and state codes and regulations.
3.03 Panels, conduit systems, motor frames, lighting fixtures and other equipment that are part of this installation shall be securely grounded both mechanically and electrically in accordance with all codes.
3.04 System ground shall not exceed a maximum of ten (10) OHMS resistance.
3.05 A ground conductor shall be supplied in ALL conduit.
4. TOGGLE SWITCHES AND RECEPTACLES
4.01 All general purpose switches and receptacles color shall be as selected by architect.
4.02 Acceptable device manufacturers are Hubbell, Arrow Hart, Leviton, or Bryant.
4.03 Wall Switches:
A. Single poles #1221, double pole #1222 and three (3) way switches #1223 shall be rated 20-ampere, 120/277 volts.
B. Switches shall be mounted 4'-0" above finished floor to centerline.
4.04 Duplex receptacles shall be 20-ampere at 125-volts, Leviton catalogue #5362 or approved equal.
4.05 Outdoor receptacles shall be weatherproof with spring covers (Leviton #4926 plates).
5. WALL PLATES
5.01 Unless otherwise noted, all plates for wall switches, receptacles and telephone outlets color shall be as selected by architect.
5.02 All plates shall have full contact with the wall and boxes.
6. OUTLETS
6.01 Locations of outlets are shown approximately on the drawings.
6.02 Outlet boxes for concealed work shall be pressed steel boxes, galvanized and not less than #12 gauge.
6.03 Outlets on the exterior of the building shall be flush weatherproof type.
6.04 All outlets shall be firmly secured in place.
6.05 All outlet locations in floor shall be verified with Owner's Representative before pouring of concrete floor.
7. BRANCH CIRCUIT WIRING
7.01 The Electrical Contractor shall provide and connect a complete system of panels, conduits, wire fittings, boxes, supports and all other miscellaneous materials required for equipment as indicated on the plans and ready for operation by the Owner.
7.02 All circuits shall be color coded.
END OF SECTION 16100

SECTION 16400 – ELECTRICAL SERVICE AND DISTRIBUTION

- 1. SECONDARY SERVICE
1.01 Electrical service shall be as shown on plans.
1.02 Electrical Contractor shall provide feeders from the existing service equipment to main panel in Shop as indicated on drawings.
1.03 Site electrical shall be coordinated with Owner by Electrical Contractor.
1.04 Provide coordination, via the General Contractor, for the final locations, penetrations, and service tie-ins associated with service conduits.
2. SAFETY SWITCHES
2.01 General
A. Switch shall be type as shown with visible, quick make, quick break blades.
2.02 Enclosures
A. Steel enclosures with operating handle at side.
B. The enclosure shall be interlocked with the switch handle such that the enclosure door cannot be opened with switch in the "on" position.

- 2.03 Ratings
A. Safety switches shall be rated for the continuous current and voltage indicated on the drawings.
2.04 Poles
A. Safety switches shall have the number of poles indicated on the drawings, but not fewer than one (1) pole for each ungrounded conductor to be opened.
2.05 Fuses
A. Where indicated, safety switches shall be fused in each ungrounded leg in accordance with the requirements of the Section entitled "Fuses".
2.06 Acceptable
A. Acceptable manufacturers are General Electric, Eaton, Square 'D', or Seimens.
3. DISTRIBUTION PANELBOARDS (INCLUDING POWER PANELS)
3.01 Power and distribution panels shall be suitable for voltages indicated on plans and/or riser diagrams.
3.02 Panels shall be provided with spares and full provisions for future breakers as shown.
3.03 Panels shall be manufactured as a complete unit by Siemens, Square 'D', General Electric Company, or Eaton, not an assembly of parts secured from a supply house.
3.04 Panelboards and switches shall be identified for "usage".
4. LIGHTING AND APPLIANCE PANELBOARDS
4.01 Lighting panels shall be dead front type, aluminum buss, with lugs only in the mains and branch circuits as indicated on the drawings.
4.02 Electrical Contractor shall arrange circuits as near as possible to circuit numbers on the drawings.
4.03 Panels shall be enclosed in galvanized steel of code thickness.
5. GENERAL (FOR ALL PANELS AND PANELBOARDS)
5.01 Metal framed card holders with typewritten circuit directory must be provided for each panel.
5.02 All panels, safety switches, starters and in general, all equipment requiring lugs shall be equipped with solderless type U.L. approved lugs.
5.03 Provide all necessary unistrut, channel, backing and supports to mount switchboard and panelboards securely in place.
6. FUSES
6.01 This Contractor shall replace all fuses blown during construction and testing and shall provide a complete set of fuses in all fuse holders, switches, panels and all other devices requiring fuses.
6.02 Fuses shall be as specified herein and indicated on drawings.
END OF SECTION 16400

SECTION 16500 – LIGHTING

- 1. LIGHTING FIXTURES
1.01 All fixtures shall be as shown on Fixture Schedules, and approved by owner.
1.02 Unless otherwise indicated, all lighting fixtures shall be furnished and installed by Electrical Contractor as indicated on the Lighting Fixture Schedules, including lamps.
1.03 All fixtures shall bear the Underwriter's Laboratories label and shall be installed according to manufacturer's instruction.
1.04 All fixtures, unless otherwise indicated, shall be new and undamaged.
1.05 Surface-mounted fluorescent fixtures shall be mounted 1-1/2" from ceiling.
1.06 This Contractor shall provide and install all necessary support media for all lighting fixtures including structural steel, angles, rods, etc.
1.07 This Contractor shall support all fixtures from building structural members and NOT from ceiling system.
END OF SECTION 16500



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PALM BAY, FLORIDA 32907

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