

**NEW HANOVER COUNTY DIVISION OF JUVENILE JUSTICE  
WILMINGTON, NC**

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**GENERAL:**

Planholders are requested to insert this Addendum in the front of their Project Manual. Inform all concerned that the Bidding Documents are modified by this Addendum.

The following modifications and clarifications are hereby made a part of the Bidding Documents and supersede or otherwise modify the provisions of the published *Project Manual* and *Drawings*, dated May 24, 2019

Refer to the Drawings, Specification Sections, or other Documents, if any, attached to this Addendum, which are hereby made a part of this Addendum.

A Pre-Bid Conference was held on May 29<sup>th</sup>, 2019 A copy of the sign-in log has been posted to [www.moseleyarchitects.com/bidding](http://www.moseleyarchitects.com/bidding) for information only and is not considered a part of the Bidding Documents.

**MODIFICATIONS TO THE PROJECT MANUAL AND DRAWINGS:**

DELETE the previously issued Documents indicated below in their entirety and SUBSTITUTE the revised Documents in their entirety

- BID FORM
- SECTION 012100 ALLOWANCES
- SECTION 096623 RESINOUS MATRIX TERRAZZO FLOORING (EPOXY)
- SECTION 102800 TOILET AND BATH ACCESSORIES
- DRAWING C2.0
- DRAWING L1.0
- DRAWING A2.1
- DRAWING A2.2
- DRAWING A2.3
- DRAWING A3.1.2
- DRAWING SE2.1
- DRAWING SE2.2
- DRAWING SE2.3
- DRAWING SE3.1

MODIFY the previously issued Documents with the following clarifications:

- SECTION 030300 – Add paragraph 2.8 A d. Interplast Barrier-Bac VB-350
- SECTION 051200 – Remove Paragraph 1.8 B “Installer Qualifications” in its entirety
- SECTION 072727 – Remove Paragraph 1.5 F “Air Barrier Manufacturer’s Technical Representative Field Review” – Registration with the ABAA Quality Assurance Program shall not be required for this project.
- SECTION 284621.11– Add paragraph 2.3.A 4.”Gamewell”
- General Clarification – Special Inspections requirements shall include testing the building envelope

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40 **REFER TO DRAWINGS ATTACHED TO THE END OF THIS ADDENDUM**

41 **REFER TO SPECIFICATION SECTIONS ATTACHED TO THE END OF THIS ADDENDUM**

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**END OF ADDENDUM NO 01**

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SECTION 012100 – ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Provisions of the Contract and of the Contract Documents apply to this Section.

1.2 SELECTION AND PURCHASE

- A. At the earliest practical date after award of the Contract, advise Architect of the date when final selection and purchase of each product or system described by an allowance must be completed to avoid delaying the Work.
- B. At Architect's request, obtain proposals for each allowance for use in making final selections. Include recommendations that are relevant to performing the Work.
- C. Purchase products and systems selected by Architect from the designated supplier.

1.3 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show actual quantities of materials delivered to the site for use in fulfillment of each allowance.
- C. Submit time sheets and other documentation to show labor time and cost for installation of allowance items that include installation as part of the allowance.
- D. Coordinate and process submittals for allowance items in same manner as for other portions of the Work.

1.4 COORDINATION

- A. Coordinate allowance items with other portions of the Work. Furnish templates as required to coordinate installation.

1.5 LUMP-SUM ALLOWANCES

- A. Allowance shall include cost to Contractor of specific products and materials ordered by Owner or selected by Architect under allowance and shall include taxes, freight, and delivery to Project site.
- B. Unless otherwise indicated, Contractor's costs for receiving and handling at Project site, labor, installation, overhead and profit, and similar costs related to products and materials ordered by Owner under allowance shall be included as part of the Contract Sum and not part of the allowance.

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PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly on delivery for damage or defects. Return damaged or defective products to manufacturer for replacement.

3.2 PREPARATION

- A. Coordinate materials and their installation for each allowance with related materials and installations to ensure that each allowance item is completely integrated and interfaced with related work.

3.3 SCHEDULE OF ALLOWANCES

- A. Allowance No. 1: Moisture vapor treatment on concrete slabs.
  - 1. Include 7,000 square feet of moisture vapor treatment on concrete floor slabs where approved by the Architect when relative humidity levels exceed levels required to facilitate the installation of floor finishes. Reference Unit Price No. 1.
- B. Allowance No. 2: Lump-Sum Allowance: Include the sum of \$16,000.00 for interior and exterior panel signage as specified in Division 10 Section "Signage."
  - 1. This allowance includes material cost, receiving, handling, and installation, and Contractor overhead and profit.
- C. Allowance No. 3: Lump-Sum Allowance: Include the sum of \$30,000.00 for installation of rooftop equipment screen at primary roof top unit.
  - 1. This allowance includes material cost, receiving, handling, and installation, and Contractor overhead and profit.

END OF SECTION 012100

SECTION 096623 - RESINOUS MATRIX TERRAZZO FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Provisions of the Contract and of the Contract Documents apply to this Section.

1.2 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct mandatory conference at Project site.
1. Review methods and procedures related to terrazzo including, but not limited to, the following:
    - a. Inspect and discuss condition of substrate and other preparatory work performed by other trades.
    - b. Review and finalize construction schedule and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
    - c. Review special terrazzo designs and patterns.
    - d. Review dust-control procedures.

1.3 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- Shop Drawings: Include terrazzo installation requirements. Include plans, elevations, sections, component details, and attachments to other work. Show layout of the following:
1. Divider strips.
  2. Control-joint strips.
  3. Accessory strips.
  4. Stair treads, risers, and landings.
  5. Precast terrazzo jointing and edge configurations.
  6. Terrazzo patterns.
- C. Samples: For each type, material, color, and pattern of terrazzo and accessory required showing the full range of color, texture, and pattern variations expected. Label each terrazzo sample to identify manufacturer's matrix color and aggregate types, sizes, and proportions. Prepare Samples of same thickness and from same material to be used for the Work, in size indicated below:
1. Terrazzo: 6-inch- (150-mm-) square Samples.
  2. Precast Terrazzo: 6-inch- (150-mm-) square Samples.

1.4 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer.
- B. Material Certificates: For each type of terrazzo material or product, from manufacturer.
- C. Installer Certificates: Signed by manufacturers certifying that installers comply with requirements.

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1.5 CLOSEOUT SUBMITTALS

- A. Maintenance Data: For terrazzo to include in maintenance manuals.

1.6 QUALITY ASSURANCE

- A. Primary Materials Manufacturer Qualifications:

1. Obtain primary materials from an associate member of NTMA.

- B. Installer Qualifications:

~~Engage an installer who is a contractor member of NTMA.~~

2.1. Engage an installer who is certified in writing by terrazzo manufacturer as qualified to install manufacturer's products.

- C. Source Limitations: Obtain primary terrazzo materials, including moisture treatment, membranes, primers, resins, and hardening agents, from single source from single manufacturer. Provide secondary materials including aggregates, divider strips, sealers and cleaners of type and from source recommended by manufacturer of primary materials.

- D. Source Limitations for Aggregates: Obtain each color, grade, type, and variety of granular materials from single source with resources to provide materials of consistent quality in appearance and physical properties.

- E. Mockups: Build mockups to verify selections made under Sample submittals and to demonstrate aesthetic effects and set quality standards for materials and execution.

1. Build mockups for terrazzo including accessories.

a. Size: Minimum 100 sq. ft. (9 sq. m) of typical poured-in-place flooring condition for each color and pattern in locations directed by Architect.

b. Include base and first three stair treads.

2. Approval of mockups does not constitute approval of deviations from the Contract Documents contained in mockups unless Architect specifically approves such deviations in writing.

3. Retain and maintain mockups during construction in undisturbed condition as a standard for judging completed work.

4. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.

- F. Coordination: Epoxy terrazzo flooring manufacturer shall review and approve Contractor's written Quality Control measures, specified in Division 03 Section "Cast-in-Place Concrete," for concrete slab placement, finish and level for (slab-on-grade and elevated) slab areas to receive epoxy terrazzo flooring.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to Project site in supplier's original wrappings and containers, labeled with source's or manufacturer's name, material or product brand name, and lot number if any.

- B. Store materials in their original, undamaged packages and containers, inside a well-ventilated area protected from weather, moisture, soiling, extreme temperatures, and humidity.

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1.8 FIELD CONDITIONS

- A. Environmental Limitations: Comply with manufacturer's written instructions for substrate temperature, ambient temperature, moisture, ventilation, and other conditions affecting terrazzo installation.
- B. Field Measurements: Verify actual dimensions of construction contiguous with precast terrazzo by field measurements before fabrication.
- C. Provide permanent lighting or, if permanent lighting is not in place, simulate permanent lighting conditions during terrazzo installation.
- D. Close spaces to traffic during terrazzo application and for not less than 24 hours after application unless manufacturer recommends a longer period.
- E. Control and collect water and dust produced by grinding operations. Protect adjacent construction from detrimental effects of grinding operations.
- F. Prior to and during each day of installation, the terrazzo contractor shall verify that the dew point is at least 5°F (-15°C) less than the slab and air temperature.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. NTMA Standards: Comply with NTMA's "Terrazzo Specifications and Design Guide" and with written recommendations for terrazzo type indicated unless more stringent requirements are specified.

2.2 EPOXY-RESIN TERRAZZO

- A. Epoxy-Resin Terrazzo: Comply with NTMA's "Terrazzo Specifications and Design Guide" and manufacturer's written instructions for matrix and aggregate proportions and mixing.
  - 1. Products: Subject to compliance with requirements, provide one of the following:
    - a. Crossfield Products Corp., Dex-O-Tex Division; Cheminert.
    - b. Key Resin Company; Key Epoxy Terrazzo.
    - c. Master Terrazzo Technologies LLC; Morricite.
    - d. Quadrant Chemical Corporation; Quadset Epoxy Terrazzo.
    - e. Sherwin Williams Company, General Polymers; Terrazzo 1100.
    - f. TEC Specialty Construction Brands, Inc.; Tuff-Lite Epoxy Terrazzo.
    - g. Terrazzo & Marble Supply Companies; Terroxy Resin Systems.
  - 2. Thickness: 3/8 inch (9.5 mm) nominal.
  - 3. Formulated Mix Color and Pattern: A two (2) color pattern is required, as indicated on floor plans, utilizing colors selected by Architect from manufacturer's full range
  - 4. Mix Designs for TERR-E1:
    - a. Epoxy – Custom match to Architect's selection.
      - 1) 80% Marble Chips; Sizes 0-1.
      - 2) 10% Clear and Dark Glass Chips; Size 1.
      - 3) 10% Mother of Pearl Freshwater Chips; Size 1.
  - 5. Mix Design for TERR-E2:
    - a. Epoxy – Custom match to Architect's selection.
    - b. Aggregate –

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- 1) 80% Marble Chips; Sizes 0-1.
- 2) 20% Dark Glass Chips; Size 1.

B. Materials:

1. Flexible Reinforcing Membrane: Manufacturer's resinous membrane for substrate-crack preparation and reflective-crack reduction.
  - a. Reinforcement: Fiberglass scrim.
2. Primer: Manufacturer's product recommended for substrate and use indicated.
3. Exterior grade plywood: 3/4-inch to 1 1/4-inch.
4. Moisture Vapor Treatment (MVT):
  - a. Subject to compliance with requirements, provide terrazzo flooring manufacturer's recommended product recommended for control of excessive moisture vapor transmission, alkaline-resistant, low-VOC, and with following properties:
    - 1) Bond Strength to Concrete: Minimum 400 psi per ASTM D 4541, 100% concrete failure.
    - 2) Permeance: Maximum 0.30 perms per ASTM E 96.
    - 3) Volatile Organic Compounds: Less than 15 g/L.
  - b. Provide MVT for all concrete slabs on-grade and lightweight concrete elevated slabs.
5. Epoxy-Resin Matrix: Manufacturer's standard recommended for use indicated and in color required for mix indicated.
  - a. Physical Properties without Aggregates:
    - 1) Hardness: 60 to 85 per ASTM D 2240, Shore D.
    - 2) Minimum Tensile Strength: 3000 psi (20.7 MPa) per ASTM D 638 for a 2-inch (51-mm) specimen made using a "C" die per ASTM D 412.
    - 3) Minimum Compressive Strength: 10,000 psi (6.9 MPa) per ASTM D 695, Specimen B cylinder.
    - 4) Chemical Resistance: No deleterious effects by contaminants listed below after seven-day immersion at room temperature per ASTM D 1308.
      - a) Distilled water.
      - b) Mineral water.
      - c) Isopropanol.
      - d) Ethanol.
      - e) 0.025 percent detergent solution.
      - f) 1.0 percent soap solution.
      - g) 10 percent sodium hydroxide.
      - h) 10 percent hydrochloric acid.
      - i) 30 percent sulfuric acid.
      - j) 5 percent acetic acid.
  - b. Physical Properties with Aggregates: For resin blended with Georgia white marble, ground, grouted, and cured per requirements in NTMA's "Terrazzo Specifications and Design Guide"; comply with the following:
    - 1) Flammability: Self-extinguishing, maximum extent of burning 1/4 inch (6.35 mm) per ASTM D 635.

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- 2) Thermal Coefficient of Linear Expansion: 0.0025 inch/inch per deg F (0.0025 mm/mm per 0.5556 deg C) for temperature range of minus 12 to plus 140 deg F (minus 24 to plus 60 deg C) per ASTM D 696.
6. Aggregates: Comply with NTMA gradation standards for mix indicated and contain no deleterious or foreign matter.
  - a. Abrasion and Impact Resistance: Less than 40 percent loss per ASTM C 131.
  - b. 24-Hour Absorption Rate: Less than 0.75 percent.
  - c. Dust Content: Less than 1.0 percent by weight.
7. Finishing Grout: Resin based.

### 2.3 PRECAST EPOXY-RESIN TERRAZZO

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
  1. Precast Terrazzo Enterprises, Inc.
  2. Romoco Precast Terrazzo Products.
  3. Terrazzo & Marble Supply Companies.
  4. Tectura Designs, a Wausau Tile Inc. Brand.
- B. Precast Terrazzo Base Units: Minimum 3/8 inch (9.5 mm) thick; cast in maximum lengths possible, but not less than 36 inches (900 mm).
  1. Type: Coved with minimum 3/4-inch (19-mm) radius.
  2. Top Edge: Radius edge with polished top surface.
  3. Metal Toe Strip: Zinc.
  4. Outside Corner Units: With finished returned edges at outside corner.
  5. Color, Pattern, and Finish: Match Architect's sample.
- C. Precast Terrazzo Stair Units: Minimum 3/4-inch (19-mm) thick. Comply with NTMA's written recommendations for fabricating precast terrazzo units in sizes and profiles indicated. Reinforce units as required by unit sizes, profiles, and thicknesses and as recommended by manufacturer. Ease exposed edges to 1/8-inch radius.
  1. Provide the following types of precast stair units:
    - a. Stair treads with nosings.
    - b. Stair risers.
    - c. Stair landings (provide with nosings where landing edge is located at top of stair).
  2. Abrasive Strips: Inserts at nosings.
- D. Setting Materials for Precast Terrazzo: One of the following acceptable to the manufacturer of precast terrazzo units:
  1. Latex-Portland Cement Mortar (Thin Set): ANSI A118.4.
  2. Epoxy Adhesive: Two component, compatible with terrazzo units and substrate.

### 2.4 STRIP MATERIALS

- A. Thin-Set Divider Strips: L-type angle or T-type, depth required for topping thickness indicated.
  1. Material: White-zinc alloy or aluminum.
  2. Top Width:
    - a. At Concrete Construction Joints: 16 gauge (1.6 mm) unless indicated otherwise.

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- b. Other Joints: 16 gauge (1.6 mm) and 1/4 inch (6.4 mm), as indicated.
- B. Heavy-Top Divider Strips: L-type angle in depth required for topping thickness indicated.
  - 1. Bottom-Section Material: Matching top-section material.
  - 2. Material: Zinc or aluminum.
  - 3. Top Width: 16 gauge (1.6 mm) and 1/4 inch (6.4 mm), as indicated.
- C. Control-Joint Strips: Separate, double L-type angles, positioned back to back, that match material and color of divider strips and in depth required for topping thickness indicated.
- D. Accessory Strips: Match divider-strip width, material, and color unless otherwise indicated. Use the following types of accessory strips as required to provide a complete installation:
  - 1. Edge-bead strips for exposed edges of terrazzo.
  - 2. Nosings for terrazzo stair treads and landings.
- E. Abrasive Strips: Three-line abrasive inserts at nosings. Silicon carbide or aluminum oxide, or combination of both, in epoxy-resin binder and set in channel.
  - 1. Width: 1/2 inch (12.7 mm).
  - 2. Depth: As required by terrazzo thickness.
  - 3. Length: 4 inches (100 mm) less than stair width.
  - 4. Color: As selected by Architect from full range of industry colors.

## 2.5 MISCELLANEOUS ACCESSORIES

- A. Strip Adhesive: Epoxy-resin adhesive recommended by adhesive manufacturer for this use.
  - 1. Adhesives shall have a VOC content of 70 g/L or less.
- B. Anchoring Devices:
  - 1. Strips: Provide mechanical anchoring devices or adhesives for strip materials as recommended by manufacturer and required for secure attachment to substrate.
  - 2. Precast Terrazzo: Provide mechanical anchoring devices as recommended by fabricator for proper anchorage and support of units for conditions of installation and support.
  - 3. Exterior Grade Plywood: Provide mechanical anchoring devices as recommended by fabricator for proper anchorage and support of units for conditions of installation and support.
- C. Patching and Fill Material: Terrazzo manufacturer's resinous product approved and recommended by manufacturer for application indicated.
- D. Joint Compound: Terrazzo manufacturer's resinous product approved and recommended by manufacturer for application indicated.
- E. Resinous Matrix Terrazzo Cleaner: Chemically neutral cleaner with pH factor between 7 and 10 that is biodegradable, phosphate free, and recommended by sealer manufacturer for use on terrazzo type indicated.
- F. Sealer: Slip- and stain-resistant, non-ambering, penetrating-type sealer that is chemically neutral; does not affect terrazzo color or physical properties; is recommended by terrazzo matrix manufacturer; and complies with NTMA's "Terrazzo Specifications and Design Guide" for terrazzo type indicated.
  - 1. Surface Friction: Not less than 0.6 according to ASTM D 2047.
  - 2. Acid-Base Properties: With pH factor between 7 and 10.

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3. Type: Water-based 2-component urethane/acrylic hybrid high gloss "wet look."
  - a. Basis-of-Design Product: Subject to compliance with requirements, provide Essential Industries; T-Rx "Complete Terrazzo Solution." or equal.

### PART 3 - EXECUTION

#### 3.1 EXAMINATION

- A. Examine substrates and areas, with Installer and epoxy terrazzo flooring manufacturer's technical representative present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.
- B. Proceed with installation only after unsatisfactory conditions, including levelness tolerances, have been corrected.

#### 3.2 PREPARATION

- A. Clean substrates of substances, including oil, grease, and curing compounds, that might impair terrazzo bond. Provide clean, dry, and neutral substrate for terrazzo application.
- B. Concrete Slabs:
  1. Provide sound concrete surfaces free of laitance, glaze, efflorescence, curing compounds, form-release agents, dust, dirt, grease, oil, and other contaminants incompatible with terrazzo.
    - a. Shot-blast surfaces with an apparatus that abrades the concrete surface, contains the dispensed shot within the apparatus, and recirculates the shot by vacuum pickup. Shot-blast surfaces to a profile consistent with ICRI Technical Guidelines for CSP 3-4.
    - b. Acid washing and/or grinding of concrete slabs is not allowed.
    - c. Review vacuum blasted concrete slab substrate for cracks with epoxy terrazzo technical representative. Rout out and fill significant non-moving cracks with epoxy resin, and patch lesser non-moving cracks with fine mesh strip set into wet primer and embedded in epoxy resin as recommended by technical representative.
    - d. Provide an epoxy or cementitious pre-fill material manufactured or recommended by epoxy flooring manufacturer and compatible with flooring system to fill low slab areas to attain acceptable substrate. This companion material is considered part of the epoxy terrazzo flooring system and shall be included in the system warranty. Gypsum composition underlayment pre-fill material is not acceptable.
- C. Verify that concrete substrates are dry and moisture-vapor emissions are within acceptable levels according to manufacturer's written instructions.
  1. Moisture Testing: Perform tests so that each test area does not exceed 1000 sq. ft. (92.9 sq. m) and perform not less than 2 tests in each installation area and with test areas evenly spaced in installation areas.
    - a. Calcium Chloride Test: Perform anhydrous calcium chloride test per ASTM F 1869. Proceed with flooring installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.

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- b. In-Situ Probe Test: Perform relative-humidity test using in-situ probes per ASTM F 2170. Proceed with installation only after substrates have a maximum 75 percent relative-humidity-level measurement.
  - c. Contractor shall carefully record all vital conditions (temperature, relative humidity, dew points, etc.) when conducting the testing and then document in writing the results to the Architect and Owner.
2. Moisture Vapor Treatment (MVT): After initial moisture testing is complete, install MVT in accordance with manufacturer's written instructions. If moisture testing indicates measurements are within acceptable levels for flooring installation without need of moisture vapor treatment, MVT may be omitted where approved by the Architect. Use of MVT shall be governed by applicable requirements of Section 012200 "Unit Prices".
- a. After installation of MVT, perform final moisture tests to verify that moisture-vapor-emission rate is at an acceptable level for flooring installation. Proceed with flooring installation only after substrates have maximum moisture-vapor-emission rate of 3 lb of water/1000 sq. ft. (1.36 kg of water/92.9 sq. m) in 24 hours.
- D. Prior to and during each day of installation, the terrazzo installer shall verify that the dew point is at least 5 degrees F. (1 degree C) less than the slab and air temperature.
- E. Protect other work from water and dust generated by grinding operations. Control water and dust to comply with environmental protection regulations.
- 1. Erect and maintain temporary enclosures and other suitable methods to limit water damage and dust migration and to ensure adequate ambient temperatures and ventilation conditions during installation.
- 3.3 EPOXY-RESIN TERRAZZO INSTALLATION
- A. Comply with NTMA's written recommendations for terrazzo and accessory installation.
  - B. Comply with NTMA's Technical Bulletin #T-22 for elevator cab floor installation.
  - C. Extend terrazzo flooring into toe spaces, closets, and similar openings unless otherwise indicated. Extend terrazzo flooring to center of cased openings and to center under door leafs at door openings unless indicated otherwise. Where transitions occur to another flooring material, extend or terminate terrazzo flooring to suit transition.
  - D. Place, rough grind, grout, cure grout, fine grind, and finish terrazzo according to manufacturer's written instructions and NTMA's Terrazzo Specifications and Design Guide."
  - E. Installation Tolerance: Limit variation in terrazzo surface from level to 1/4 inch in 10 feet (6.4 mm in 3 m); noncumulative.
  - F. Ensure that matrix components and fluids from grinding operations do not stain terrazzo by reacting with divider and control-joint strips.
  - G. Delay fine grinding until heavy trade work is complete and construction traffic through area is restricted.
  - H. Flexible Reinforcing Membrane:
    - 1. Prepare and prefill substrate cracks with membrane material.
    - 2. Install membrane at substrate cracks in areas to receive terrazzo.
    - 3. Reinforce membrane with fiberglass scrim.

4. Prepare membrane according to manufacturer's written instructions before applying substrate primer.
  - I. Primer: Apply to terrazzo substrates according to manufacturer's written instructions.
  - J. Strip Materials:
    1. Divider and Control-Joint Strips:
      - a. Locate divider strips in locations indicated.
      - b. Install control-joint strips in locations indicated.
      - c. Install control-joint strips with 1/4-inch (6.4-mm) gap between strips, and install sealant in gap.
      - d. Install strips in adhesive setting bed without voids below strips, or mechanically anchor strips as required to attach strips to substrate, as recommended by strip manufacturer.
    2. Accessory Strips: Install as required to provide a complete installation.
    3. Abrasive Strips: Install with surface of abrasive strip positioned 1/16 inch (1.6 mm) higher than terrazzo surface.
  - K. Fine Grinding: Grind with stones 400 grit or finer until all grout is removed from surface. Repeat rough grinding, grout coat, and fine grinding if large voids exist after initial fine grinding. Produce surface with a minimum of 70 percent aggregate exposure.
- 3.4 PRECAST TERRAZZO INSTALLATION
- A. Install precast terrazzo units using method recommended by NTMA and manufacturer unless otherwise indicated.
  - B. Do not install units that are chipped, cracked, discolored, or not properly finished.
  - C. Seal joints between units with joint compound matching precast terrazzo matrix.
- 3.5 REPAIR
- A. Cut out and replace terrazzo areas that evidence lack of bond with substrate. Cut out terrazzo areas in panels defined by strips and replace to match adjacent terrazzo, or repair panels according to NTMA's written recommendations, as approved by Architect.
- 3.6 FIELD QUALITY CONTROL
- A. Inspection Reports of Manufacturer's Representative: Arrange for and schedule the epoxy terrazzo manufacturer's representative inspection of the work. The manufacturer's representative shall provide copies of his written inspection reports to the Architect within 10 working days of the inspection. The Installer shall notify the manufacturer's representative of intended start date and schedule of work.
    1. The manufacturer's representative shall inspect the work no less than two times during the construction.
      - a. The first inspection shall be of the mockup, if any, or the first area completed that is over 100 square feet in size.
      - b. The second inspection shall be at substantial completion.
    2. If the inspection reveals any defects, the Contractor shall immediately rectify all such defects at his cost.

3.7 CLEANING AND PROTECTION

A. Cleaning:

1. Remove grinding dust from installation and adjacent areas.
2. Wash surfaces with cleaner according to NTMA's written recommendations and manufacturer's written instructions; rinse surfaces with water and allow them to dry thoroughly.

B. Sealing:

1. Seal surfaces according to NTMA's written recommendations.
2. Apply sealer according to sealer manufacturer's written instructions.

C. Protection: Provide final protection and maintain conditions, in a manner acceptable to Installer, that ensure that terrazzo is without damage or deterioration at time of Substantial Completion.

1. Leave finished installation clean and free of cracked, chipped, broken, unbonded, and otherwise defective terrazzo work. Repair or replace defective terrazzo work to attain the specified NTMA standards for finished work. The party responsible for the damaged or otherwise non-confirming work shall be responsible for the cost of repair.

END OF SECTION 096623

SECTION 102800 - TOILET AND BATH ACCESSORIES (\*AD-01)

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Provisions of the Contract and of the Contract Documents apply to this Section.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated. Include the following:
1. Construction details and dimensions.
  2. Anchoring and mounting requirements, including requirements for cutouts in other work and substrate preparation.
  3. Material and finish descriptions.
  4. Features that will be included for Project.
  5. Manufacturer's warranty.
- B. Setting Drawings: For cutouts required in other work; include templates, substrate preparation instructions, and directions for preparing cutouts and installing anchoring devices.
- C. Product Schedule: Indicating types, quantities, sizes, and installation locations by room of each accessory required.
1. Identify locations using room designations indicated.
  2. Identify products using designations indicated.
- D. Maintenance Data: For accessories to include in maintenance manuals specified in Division 1. Provide lists of replacement parts and service recommendations.

1.3 QUALITY ASSURANCE

- A. Source Limitations: Provide products of same manufacturer for each type of accessory unit and for units exposed to view in same areas, unless otherwise approved by Architect.
1. All grab bars are considered one "type" and shall be of similar design.
- B. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- C. Product Options: Accessory requirements, including those for materials, finishes, dimensions, capacities, and performance, are established by specific products indicated in the Toilet and Bath Accessory Schedule.
1. Products of other manufacturers with equal characteristics, as judged solely by Architect, may be provided.
  2. Do not modify aesthetic effects, as judged solely by Architect, except with Architect's approval. Where modifications are proposed, submit comprehensive explanatory data to Architect for review.
- D. Accessibility Requirements: Comply with applicable provisions in the Department of Justice 2010 ADA Standards for Accessible Design.

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1.4 COORDINATION

- A. Coordinate accessory locations with other work to prevent interference with clearances required for access by disabled persons, proper installation, adjustment, operation, cleaning, and servicing of accessories.
- B. Deliver inserts and anchoring devices set into concrete or masonry as required to prevent delaying the Work.
- C. Coordinate type and location of blocking required for wall-mounted accessories.

1.5 WARRANTY

- A. General Warranty: Special warranty specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Special Mirror Warranty: Manufacturer's standard form in which manufacturer agrees to replace mirrors that develop visible silver spoilage defects and that fail in materials or workmanship within specified warranty period.
  - 1. Minimum Warranty Period: 15 years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. In other Part 2 and Part 3 articles where titles below introduce lists, the following requirements apply to product selection:
  - 1. Products: Subject to compliance with requirements, available products include, but are not limited to, those listed.
- B. Available Manufacturers: Subject to compliance with requirements, manufacturers offering accessories that may be incorporated into the Work include, but are not limited to, the following:
  - 1. Toilet and Bath Accessories:
    - a. A & J Washroom Accessories, Inc.
    - b. American Specialties, Inc.
    - c. Bobrick Washroom Equipment, Inc.
    - d. Bradley Corporation.
  - 2. Warm-Air Dryers:
    - a. A & J Washroom Accessories, Inc.
    - b. American Dryer, Inc.
    - c. American Specialties, Inc.
    - d. Bobrick Washroom Equipment, Inc.
    - e. Bradley Corporation.
    - f. Excel Dryer Corporation.
    - g. World Dryer.
  - 3. Infant-Care Products:
    - a. A & J Washroom Accessories, Inc.
    - b. American Infant Care Products Inc.

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- c. American Specialties, Inc.
  - d. Brocar Products, Inc.
  - e. Koala Kare division of Bobrick Washroom Equipment, Inc.
  - f. Bradley Corporation.
  - g. Rubbermaid Commercial Products.
  - h. Safe-Strap Company, Inc.
4. Underlavatory Guards:
- a. Brocar Products, Inc.
  - b. Truebro, Inc.
  - c. IPS Corporation.
5. Specimen Pass Through Cabinets:
- a. A & J Washroom Accessories, Inc.
  - b. Bobrick Washroom Equipment, Inc.
  - c. Bradley Corporation.

## 2.2 MATERIALS

- A. Stainless Steel: ASTM A 666, Type 304, with No. 4 finish (satin), in 0.031-inch minimum nominal thickness, unless otherwise indicated.
- B. Brass: ASTM B 19, flat products; ASTM B 16, rods, shapes, forgings, and flat products with finished edges; or ASTM B 30, castings.
- C. Steel Sheet: ASTM A 1008, Designation CS (cold rolled, commercial steel), 0.036-inch minimum nominal thickness.
- D. Galvanized-Steel Sheet: ASTM A 653, with G60 hot-dip zinc coating.
- E. Galvanized-Steel Mounting Devices: ASTM A 153, hot-dip galvanized after fabrication.
- F. Fasteners: Screws, bolts, and other devices of same material as accessory unit and tamper-and-theft resistant where exposed, and of galvanized steel where concealed.
- G. Chrome Plating: ASTM B 456, Service Condition Number SC 2 (moderate service).
- H. Baked-Enamel Finish: Factory-applied, gloss-white, baked-acrylic-enamel coating.
- I. Mirrors: ASTM C 1503, Mirror Glazing Quality, clear-glass mirrors, nominal 6.0 mm thick.
- J. ABS Plastic: Acrylonitrile-butadiene-styrene resin formulation.

## 2.3 FABRICATION

- A. General: Fabricate units with tight seams and joints, and exposed edges rolled. Hang doors and access panels with full-length, continuous hinges. Equip units for concealed anchorage and with corrosion-resistant backing plates.
- B. Logo: One, maximum 1-1/2-inch- (38-mm-) diameter, unobtrusive stamped manufacturer logo, as approved by Architect, is permitted on exposed face of accessories. On interior surface not exposed to view or back surface of each accessory, provide printed, waterproof label or stamped nameplate indicating manufacturer's name and product model number.
- C. Recessed Toilet Accessories: Unless otherwise indicated, fabricate units of all-welded construction, without mitered corners.

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- D. Framed Glass-Mirror Units: Fabricate frames for glass-mirror units to accommodate glass edge protection material. Provide mirror backing and support system that permits rigid, tamper-resistant glass installation and prevents moisture accumulation.
  - 1. Provide galvanized steel backing sheet, not less than 0.034 inch and full mirror size, with non-absorptive filler material. Corrugated cardboard is not an acceptable filler material.
- E. Keys: Provide universal keys for internal access to accessories for servicing and resupplying. Provide minimum of six keys to Owner's representative.

### PART 3 - EXECUTION

#### 3.1 INSTALLATION

- A. Install accessories according to manufacturers' written instructions, using fasteners appropriate to substrate indicated and recommended by unit manufacturer. Install units level, plumb, and firmly anchored in locations and at heights indicated.
- B. Grab Bars: Install to withstand a downward load of at least 250 lbf, when tested according to method in ASTM F 446.

#### 3.2 ADJUSTING AND CLEANING

- A. Adjust accessories for unencumbered, smooth operation and verify that mechanisms function properly. Replace damaged or defective items.
- B. Remove temporary labels and protective coatings.
- C. Clean and polish exposed surfaces according to manufacturer's written recommendations.

#### 3.3 TOILET AND BATH ACCESSORY SCHEDULE

- A. The following products make reference to the Toilet Accessories Schedule in the drawings, herein designated as "TBA."
- B. Grab Bar **TBA-A, B, C**: Where these designations are indicated, provide stainless-steel grab bar complying with the following:
  - 1. Products: Available products include the following:
    - a. UG2 Series; A & J Washroom Accessories, Inc.
    - b. 3700 Series; American Specialties, Inc.
    - c. B-5806 Series; Bobrick Washroom Equipment, Inc.
    - d. 832 Series; Bradley Corporation.
  - 2. Stainless-Steel Nominal Thickness: Minimum 0.05 inch.
  - 3. Mounting: Concealed with manufacturer's standard flanges and anchors.
  - 4. Gripping Surfaces: Smooth, satin finish.
  - 5. Outside Diameter: 1-1/4 inches for medium-duty applications
- C. Toilet Tissue (Double Roll) Dispenser **TBA-D**: Where this designation is indicated, provide toilet tissue dispenser complying with the following:
  - 1. Available Products: Subject to compliance with requirements, products that may be incorporated into the Work include, but are not limited to, the following:
    - a. Model U806-NC; A & J Washroom Accessories, Inc.
    - b. 0264-1 series; American Specialties, Inc.

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- c. Model B-2740; Bobrick Washroom Equipment, Inc.
  2. Type: Double roll dispenser with molded high-impact ABS spindle, and tamper-resistant release mechanism.
  3. Mounting: Surface mounted with exposed anchorage
  4. Material: Cast aluminum with satin finish.
  5. Operation: Non-control delivery with manufacturer's standard spindle.
  6. Capacity: Designed for up to 6-inch- (152-mm-) diameter-core tissue rolls.
- D. Sanitary Napkin Disposal Unit (Flip Lid) **TBA-E**: Where this designation is indicated, provide stainless-steel sanitary napkin disposal unit complying with the following:
1. Products: Available products include the following:
    - a. Model B-270 Contura; Bobrick Washroom Equipment, Inc.
    - b. Model U591; A & J Washroom Accessories, Inc.
    - c. Model 20852; American Specialties, Inc.
    - d. Model 4781-15; Bradley Corporation.
  2. Surface-Mounted Type: With seamless exposed walls; self-closing top cover; locking bottom panel with stainless-steel, continuous hinge; and removable, reusable receptacle.
- E. Soap Dispenser (Surface Tank) **TBA-F**: Where this designation is indicated, provide soap dispenser complying with the following:
1. Products: Available products include the following:
    - a. Model U126; A & J Washroom Accessories, Inc.
    - b. Model 0347; American Specialties, Inc.
    - c. Model B-2111; Bobrick Washroom Equipment, Inc.
    - d. Model 6562; Bradley Corporation.
  2. Liquid Soap Dispenser, Vertical-Tank Type: Surface-mounted type, minimum 40-oz. (1182.9-mL) capacity tank with stainless-steel piston, springs, and internal parts designed to dispense soap in measured quantity by pump action; and stainless-steel cover with unbreakable window-type refill indicator.
    - a. Soap Valve: Designed for dispensing soap in liquid form.
- F. Mirror Unit **TBA-G**: Where this designation is indicated, provide mirror unit complying with the following:
1. Products: Available products include the following:
    - a. U700 Series; A & J Washroom Accessories, Inc.
    - b. 0600 A Series; American Specialties, Inc.
    - c. Model B-290; Bobrick Washroom Equipment, Inc.
    - d. Model 780; Bradley Corporation.
  2. Stainless-Steel, Angle-Framed Mirror: Fabricate frame from minimum nominal 0.05-inch-thick stainless-steel angles, with square corners mitered, welded, and ground smooth.
- G. Diaper-Changing Station **TBA-H**: Where this designation is indicated, provide infant-care product complying with the following: **(\*AD-01)**
1. Products: Available products include the following:
    - a. Model KB200; Koala Kare, Bobrick Washroom Equipment, Inc.
    - b. Model U944; A & J Washroom Accessories, Inc.

- c. **Model 9012; American Specialties, Inc.**
- 2. **Description: Horizontal unit that opens by folding down from stored position and with child-protection strap.**
  - a. **Engineered to support a minimum of 200-lb static load when opened.**
  - b. **Conforms to ADA accessibility requirements.**
- 3. **Mounting: Surface mounted, with unit projecting not more than 4 inches from wall when closed.**
- 4. **Operation: Pneumatic shock-absorbing mechanism.**
- 5. **Material and Finish: FDA-approved high-density polyethylene or polypropylene with reinforced full-length steel hinge mechanism, 11-gage steel mounting plates and hardware.**
  - a. **Color: As selected from manufacturer's full line of available colors.**
- 6. **Liner Dispenser: Built in.**

H. Robe Hook: Where indicated, provide robe hook complying with the following:

- 1. Products: Available products include the following:
  - a. Model UX112; A & J Washroom Accessories, Inc.
  - b. Model 7345; American Specialties, Inc.
  - c. Model B-7672; Bobrick Washroom Equipment, Inc.
  - d. Model 9124; Bradley Corporation.
- 2. Double-Prong Unit: Stainless-steel, double-prong robe hook with rectangular wall bracket and backplate for concealed mounting.

### 3.4 CUSTODIAL ACCESSORIES

- A. Mop and Broom Holder with Utility Shelf: Where this designation is indicated, provide mop and broom holder complying with the following:
  - 1. Products: Available products include the following:
    - a. Model UJ41A; A & J Washroom Accessories, Inc.
    - b. Model 1315; American Specialties, Inc.
    - c. Model B-224 x 36; Bobrick Washroom Equipment, Inc.
    - d. Model 9983; Bradley Corporation.
  - 2. 36-inch- Long Unit: Minimum nominal 0.05-inch-thick stainless-steel unit with shelf; support brackets for wall mounting; three hooks for wiping rags; four spring-loaded, rubber hat, cam-type, mop/broom holders mounted on front of shelf; and approximately 1/4-inch-diameter, stainless-steel rod suspended beneath shelf for drying rags.

END OF SECTION 102800

# SITE DEVELOPMENT DATA

## GENERAL NOTES:

OWNER: NEW HANOVER COUNTY  
 ADDRESS: 200 DIVISION DRIVE  
 WILMINGTON, NC 28401  
 PHONE: (910) 798-4338  
 ATTN: KEVIN CAISON

NEW HANOVER COUNTY PARCEL NO.:  
 311708 99.0048.000  
 PID: R04817-019-003-000

SITE ADDRESS: 138 NORTH FORTH STREET

TOTAL TRACT AREA: 0.42 AC ±

ZONING DISTRICT: HISTORIC DISTRICT (HD)

## SETBACKS:

MINIMUM SETBACKS -	PROPOSED SETBACKS -
0' FRONT	6' FRONT
0' CORNER	1.5' NORTH SIDE
0' REAR	5' SOUTH SIDE
0' INTERIOR SIDE	9.8' REAR

CAMA LAND CLASSIFICATION: URBAN

## DEVELOPMENT DATA:

TOTAL TRACT AREA: 0.42 AC ±

TOTAL BUILDING GFA: 38,455 SF ±

BUILDING CONSTRUCTION TYPE: V-A

TOTAL BUILDING COVERAGE: 14,600 SF ± (79.8%)

TOTAL GROSS FLOOR AREA:	38,455 SF ±
1ST FLOOR -	14,511 SF ±
2ND FLOOR -	12,619 SF ±
3RD FLOOR -	11,325 SF ±

PROPOSED BUILDING HEIGHT:

3-STORY - 61'

PARKING (FROM DATA PROVIDED BY NEW HANOVER COUNTY):

EXISTING USE, SPACES USED -	29
ADDITIONAL SPACES NEEDED PER PROPOSED USE -	20
TOTAL PARKING NEEDED -	49

EXISTING PARKING: 0 SPACES

PROVIDED PARKING: 0 SPACES

NOTE: PROJECT IS WITHIN 1,320 FEET OF GOVERNMENT OWNED PARKING FACILITIES AND THEREFORE EXEMPT FROM OFF-STREET PARKING REQUIREMENTS.

BICYCLE PARKING

MIN SPACES REQUIRED: 0

SPACES PROVIDED: 5

EXISTING ONSITE IMPERVIOUS COVERAGE: 17,360 SF

EXISTING ONSITE IMPERVIOUS COVERAGE TO REMAIN: 0.00 SF

PROPOSED ONSITE IMPERVIOUS COVERAGE:

ROOFTOPS - 14,600 SF ±

DRIVEWAY - 150 SF ±

SIDEWALKS - 2,050 SF ±

TOTAL - 16,800 SF (91.8%)

EXISTING OFFSITE IMPERVIOUS TO BE REMOVED: 168 SF

PROPOSED OFFSITE IMPERVIOUS COVERAGE: 168 SF

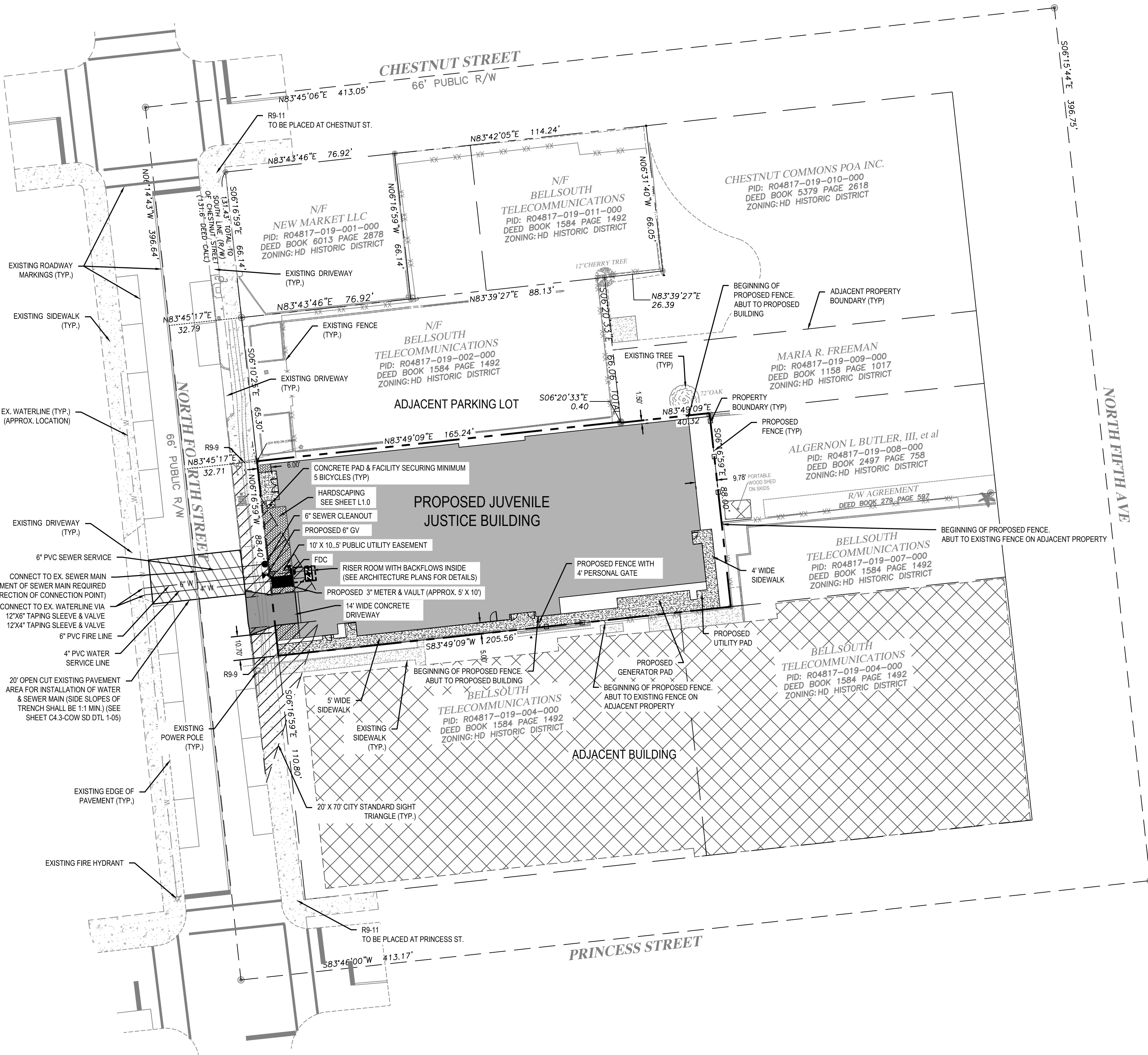
NET ADDED OFFSITE IMPERVIOUS AREA: 0 SF

PROJECTED WATER AND SEWER DEMAND: 12,000 GPD

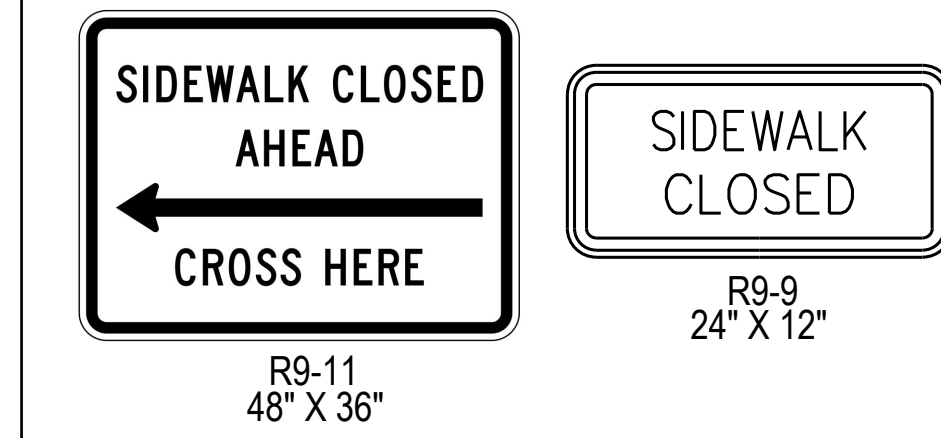
SOLID WASTE DISPOSAL IS VIA SHARED DUMPSTER ACROSS STREET AT 320 CHESTNUT STREET & THALIAN HALL.

## DEVELOPMENT NOTES:

- ALL DEVELOPMENT SHALL BE IN ACCORDANCE WITH THE CITY OF WILMINGTON LAND DEVELOPMENT CODE.
- PROJECT SHALL COMPLY WITH ALL FEDERAL, STATE, CITY & NEW HANOVER COUNTY REGULATIONS.
- ACCESS TO AND FROM PROPERTY IS TO BE VIA A CONTROLLED ACCESS. DURING ENTRY THE COUNTY SHERIFF DEPARTMENT IS TO SHUT DOWN 4TH STREET.
- ALL PROPOSED VEGETATION WITHIN THE SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISUAL SIGHT LINES FROM 30'-10' [SEC. 18-556 CoW LDC] [SEC. 18-812 CoW LDC]
- THERE IS NO PHASING OF THIS PROJECT ANTICIPATED. PROJECT IS EXPECTED TO TAKE 18 MONTHS FROM START OF CONSTRUCTION.
- SEE SITE LOGISTICS PLAN IN BORDEAUX BID MANUAL FOR EXISTING FENCE SCHEDULED TO BE REMOVED, STORED, AND REINSTALLED, INCLUDING VEHICULAR ACCESS GATE.



## TEMPORARY SIGNS DURING CONSTRUCTION LEGEND:



## SPECIAL USE PERMIT AND HISTORIC PRESERVATION COMMISSION APPROVED CONDITIONS:

- THE PROPERTY SHALL BE SUBJECT TO ALL OF THE SPECIFIC REQUIREMENTS STATED IN THE LAND DEVELOPMENT CODE FOR THE PROPOSED USE AS WELL AS ANY ADDITIONAL CONDITIONS STATED BELOW.
- THE USE AND DEVELOPMENT OF THE PROPERTY SHALL COMPLY WITH ALL OTHER SUPPLEMENTAL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE OR ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT OR HIGHER STANDARD SHALL APPLY.
- IF, FOR ANY REASON, ANY CONDITION FOR APPROVAL IS FOUND TO BE ILLEGAL OR INVALID OR IF THE APPLICANT SHOULD FAIL TO ACCEPT ANY CONDITION FOLLOWING APPROVAL, THE APPROVAL OF THE SITE PLAN FOR THE DISTRICT SHALL BE NULL AND VOID AND OF NO EFFECT AND PROCEEDINGS SHALL BE INSTITUTED TO REZONE THE PROPERTY TO ITS PREVIOUS ZONING CLASSIFICATION.
- THE USE AND DEVELOPMENT OF THE PROPERTY SHALL BE IN ACCORDANCE WITH THE PLANS AND ELEVATIONS AS SUBMITTED AND APPROVED.
- APPROVAL OF THIS SPECIAL USE PERMIT DOES NOT CONSTITUTE TECHNICAL APPROVAL OF THE SITE PLAN. ALL TECHNICAL REVIEW COMMITTEE COMMENTS SHALL BE FOLLOWED PRIOR TO ISSUANCE OF A CONSTRUCTION RELEASE OR FINAL ZONING APPROVAL.
- ALL GLAZING ON THE GROUND FLOOR ALONG NORTH 4TH STREET SHALL BE CLEAR AND NOT TINTED, EXCLUDING THE SALLY PORT GARAGE DOORS.
- TO PROMOTE THE URBAN CANOPY ON NORTH 4TH STREET, TWO STREET TREES SHALL BE ADDED WITHIN THE RIGHT-OF-WAY ALONG THE FRONTAGE OF THE PROPOSED BUILDING.
- THE INSTALLATION OF BIKE RACKS SHALL BE REQUIRED AS PART OF THE PROJECT.
- ALL CITY, STATE AND FEDERAL REGULATIONS SHALL BE MET.
- ALL HVAC AND MECHANICAL EQUIPMENT SHALL BE LOCATED ON THE ROOF OR IN AN INCONSPICUOUS LOCATION AND SCREENED FROM PUBLIC VIEW.
- THE HISTORIC PRESERVATION PLANNER SHALL REVIEW AND APPROVE THE DESIGN OF ANY SCREENING USED ON THE PROPERTY.
- ANY GRANITE CURBING ALONG NORTH 4TH STREET SHALL BE RESTORED ALONG THE ENTIRE LENGTH OF THE PROPERTY.
- HISTORIC PAVING MATERIALS LOCATED IN THE 100 BLOCK RIGHT-OF-WAY OF NORTH 4TH STREET, ADJACENT TO THE SITE SHALL BE INVENTORIED, WITH DISPOSITION OF SAID MATERIAL TO BE IN COMPLIANCE WITH THE CITY OF WILMINGTON'S BRICK STREETS POLICY.
- ANY BROKEN SIDEWALK PANELS SHALL BE REPAIRED OR REPLACED IN ACCORDANCE WITH THE WILMINGTON TECHNICAL STANDARD AND SPECIFICATION MANUAL.
- ALL TECHNICAL REVIEW COMMITTEE REQUIREMENTS SHALL BE IN FULL COMPLIANCE.
- AN INVESTIGATION USING PROFESSIONAL ARCHAEOLOGISTS AND CONTEMPORARY METHODS SHALL BE UNDERTAKEN DURING EXCAVATION WORK FOR THE NEW BUILDING. IF AT ALL POSSIBLE, ARCHAEOLOGICAL MATERIALS SHALL REMAIN IN PLACE. IF IT IS NOT POSSIBLE TO PRESERVE ARCHAEOLOGICAL MATERIALS IN PLACE, THE HISTORIC PRESERVATION PLANNER SHALL REVIEW FINDINGS AND APPROVE REMOVAL. NO REMOVAL OF ARCHAEOLOGICAL MATERIALS CAN OCCUR WITHOUT APPROVAL FROM THE HISTORIC PRESERVATION PLANNER.
- THE PROPERTY OWNER SHALL PROVIDE THE HISTORIC PRESERVATION PLANNER UNRESTRICTED ACCESS TO THE SITE DURING EXCAVATION ACTIVITIES. THE HISTORIC PRESERVATION PLANNER SHALL NOTIFY THE PROPERTY OWNER WHEN SHE IS ON THE PROPERTY.
- A REPORT OF THE ARCHAEOLOGICAL INVESTIGATION SHALL BE PREPARED FOR REVIEW BY THE HISTORIC PRESERVATION PLANNER AND A COPY PROVIDED TO THE PLANNER FOR PLACEMENT IN THE HISTORIC FILES OF THE PROPERTY MAINTAINED BY THE CITY OF WILMINGTON PLANNING DEPARTMENT.
- SIGNIFICANT ARCHAEOLOGICAL MATERIALS SHOULD BE DONATED TO THE NEW HANOVER COUNTY CAPE FEAR MUSEUM.
- THE PROJECT REVIEWED AS A PART OF THIS APPLICATION SHALL COMPLY WITH ALL CONDITIONS ORDERED BY THE HISTORIC PRESERVATION COMMISSION.
- ALL CONSTRUCTION SHALL COMPLY WITH ALL REGULATIONS AND REQUIREMENTS IMPOSED BY THE LAND DEVELOPMENT CODE AND ANY OTHER APPLICABLE FEDERAL, STATE OR LOCAL LAW, ORDINANCE OR REGULATION, INCLUDING THE NORTH CAROLINA BUILDING CODE. ALL REQUIRED PERMITS SHALL BE OBTAINED.
- CHANGES TO THE PROJECT FROM THAT DESCRIBED IN THE APPLICATION AND SUBMITTALS THAT ARE AS THE RESULT OF COMPLIANCE WITH THE NC STATE BUILDING CODE, LAND DEVELOPMENT CODE, OR OTHER APPLICABLE REGULATORY PROVISIONS, SHALL BE REVIEWED BY THE HISTORIC PRESERVATION COMMISSION OR IF MINOR IN NATURE AS SPECIFIED IN THE WILMINGTON DESIGN GUIDELINES, BY COMMISSION STAFF THROUGH THE ADMINISTRATIVE BYPASS PROCESS.

Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Public Utilities \_\_\_\_\_

Traffic \_\_\_\_\_

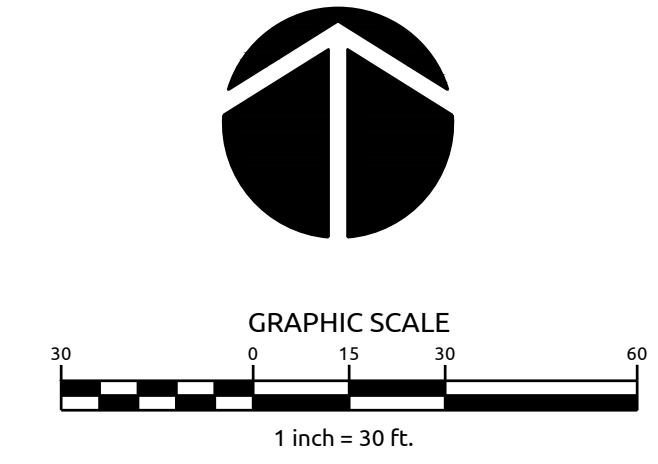
Fire \_\_\_\_\_

WILMINGTON NORTH CAROLINA  
 Public Services • Engineering Division  
 APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.



**WithersRavenel**  
 Engineers | Planners | Surveyors

NEW HANOVER COUNTY  
 DIVISION OF JUVENILE  
 JUSTICE FACILITY  
 138 NORTH 4TH STREET  
 WILMINGTON, NC

SITE AND UTILITY PLAN

Job No.	03180736	Drawn By	TG
Date	11.26.18	Designer	JSB

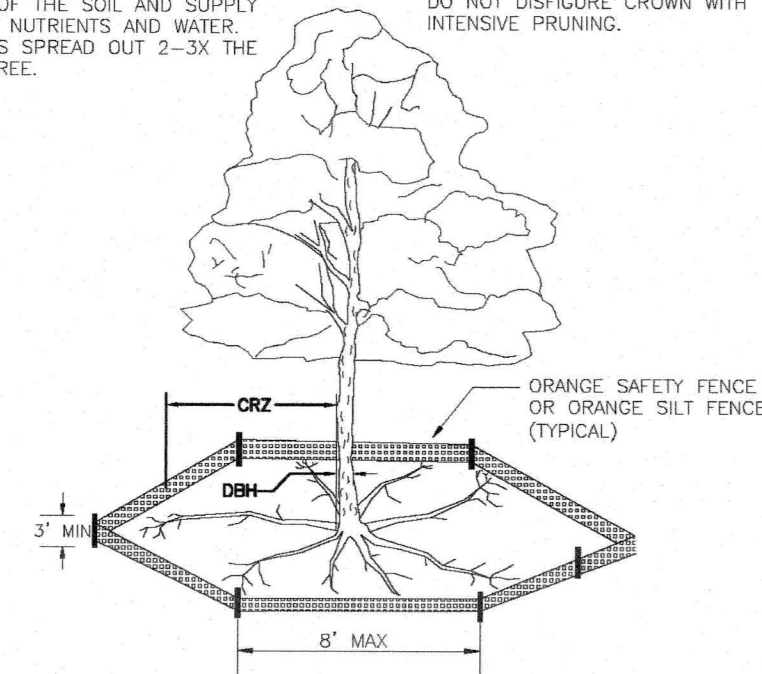
Revisions	Date
1 ADDED SOUTH FENCE & GATE	6.4.19

Sheet No.  
**C2.0**

W:\18\180736\180736.dwg - New Hanover - 11/26/2018 10:00:00 AM - 11/26/2018 10:00:00 AM - 11/26/2018 10:00:00 AM - 11/26/2018 10:00:00 AM

NOTE: THE CRITICAL ROOT ZONE (CRZ) OF A TREE IS WHERE THE MAJORITY OF A TREE'S ROOTS LAY. 85% OF MOST TREE ROOTS ARE FOUND IN THE TOP 24" OF THE SOIL AND SUPPLY THE MAJORITY OF NUTRIENTS AND WATER. GENERALLY, ROOTS SPREAD OUT 2-3X THE HEIGHT OF THE TREE.

NOTE: CROWN OF THE TREE IS NEEDED FOR LEAF GROWTH TO PRODUCE OXYGEN, FILTER THE AIR, REDUCE WIND AND SOFTEN NOISE. DO NOT DISRUPT CROWN WITH INTENSIVE PRUNING.



- NOTES:
1. PROTECT CRITICAL ROOT ZONE (CRZ) OF TREES PRIOR TO CONSTRUCTION. CLEARLY MARK THE TREES AND ERECT A PROTECTIVE BARRIER AT THE CRZ BARRIER. BARRIERS SHALL BE MAINTAINED UNTIL CONSTRUCTION IS COMPLETE.
  2. CRZ RADIUS IS 1 FT PER INCH OF TREE DIAMETER AT GREATEST HEIGHT (DBH).
  3. IF CONSTRUCTION OCCURS WITHIN THE CRZ, AT LEAST 12" OF MULCH AND/OR LOGGING MATS SHALL BE PLACED WHERE MACHINERY MANEUVERS TO REDUCE SOIL COMPACTION IN THIS ZONE.
  4. WHERE SIDEWALKS AND PATHWAYS PASS WITHIN CRZ, EXTRA CARE SHALL BE TAKEN TO AVOID DAMAGE TO THE ROOTS. ALTERNATE CONSTRUCTION METHODS, SUCH AS A REINFORCED SIDEWALK, SHALL BE IMPLEMENTED AS NECESSARY.
  5. FOR ALL TREES, CUTTING OF LARGE STRUCTURAL ROOTS LOCATED NEAR THE BASE OF THE TRUNK IS PROHIBITED. DO NOT COMPACT SOIL BENEATH TREES. NO VEHICLE SHALL BE ALLOWED TO PARK UNDER TREES. NO MATERIALS OR EQUIPMENT SHALL BE STORED BENEATH TREES. DAMAGING THE BARK WITH LAWNMOWERS, CONSTRUCTION EQUIPMENT, OR ANYTHING ELSE IS PROHIBITED. CONTRACTOR SHALL REPAIR DAMAGE TO TREES.
  6. FAILING TO INSTALL OR MAINTAIN PROTECTION MEASURES SHALL RESULT IN A STOP WORK ORDER AND FINE OF \$500/DAY. DISTURBANCE OTHER THAN THAT ALLOWED ON THE APPROVED PLAN WILL REQUIRE OWNER TO POST A LETTER OF CREDIT FOR 3 YRS FOR TREE MITIGATION.

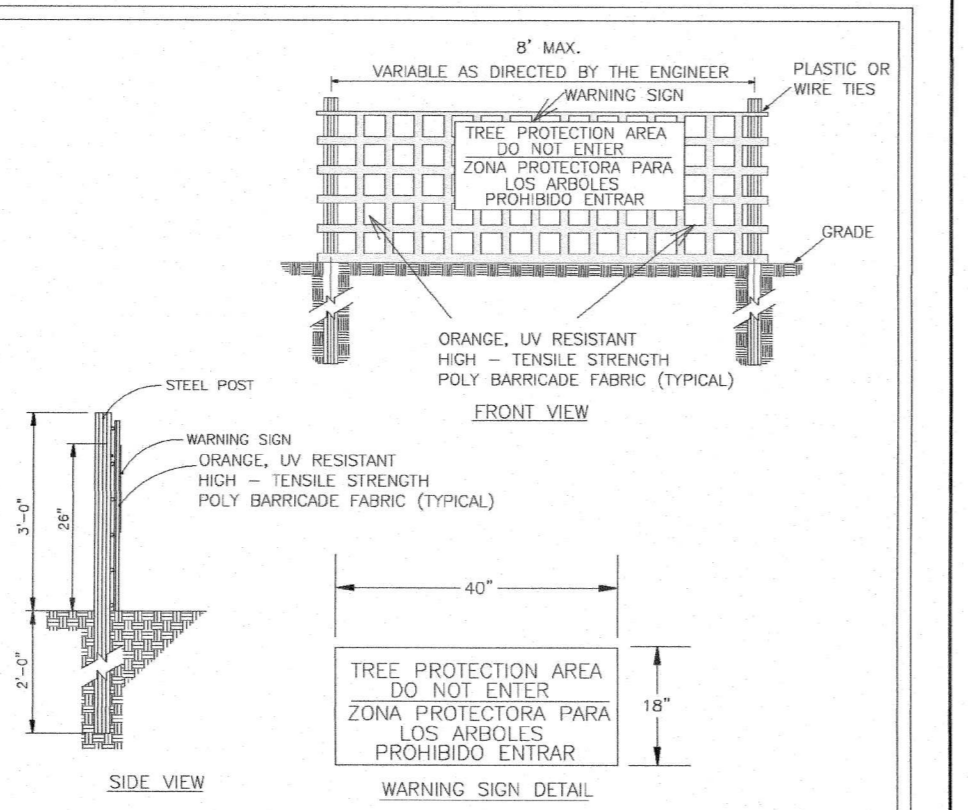
STANDARD DETAIL

**TREE PROTECTION DURING CONSTRUCTION**

SHEET 1 of 2

SD 15-09

CITY OF WILMINGTON  
NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, NC 28402  
(910) 341-7807



STANDARD DETAIL

**TREE PROTECTION DURING CONSTRUCTION**

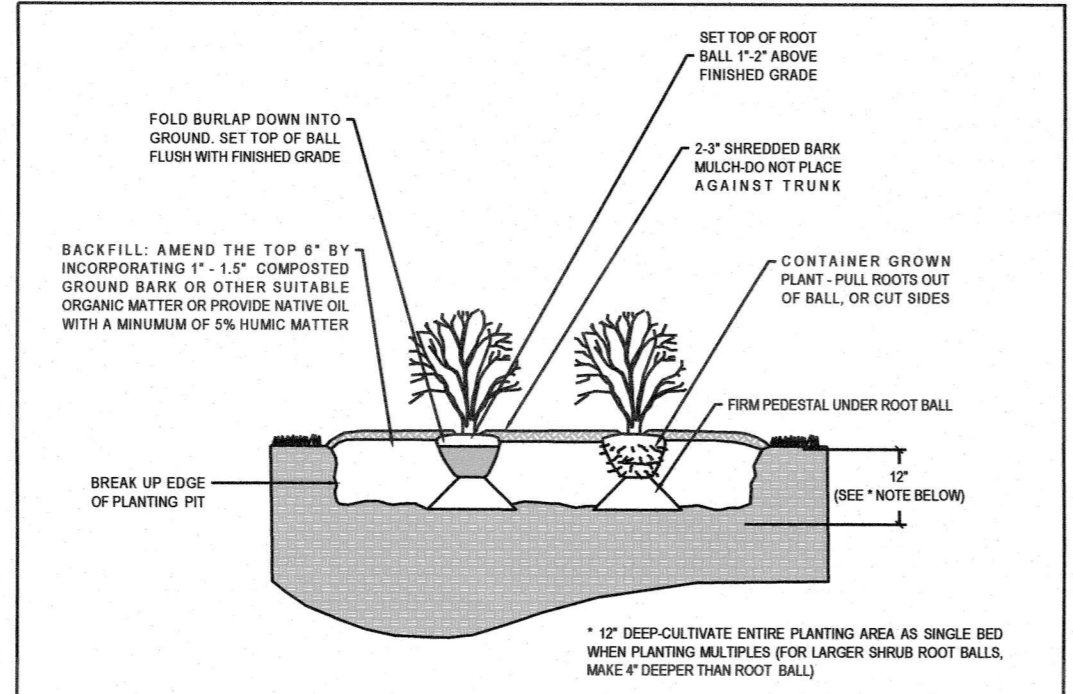
SHEET 2 of 2

SD 15-09

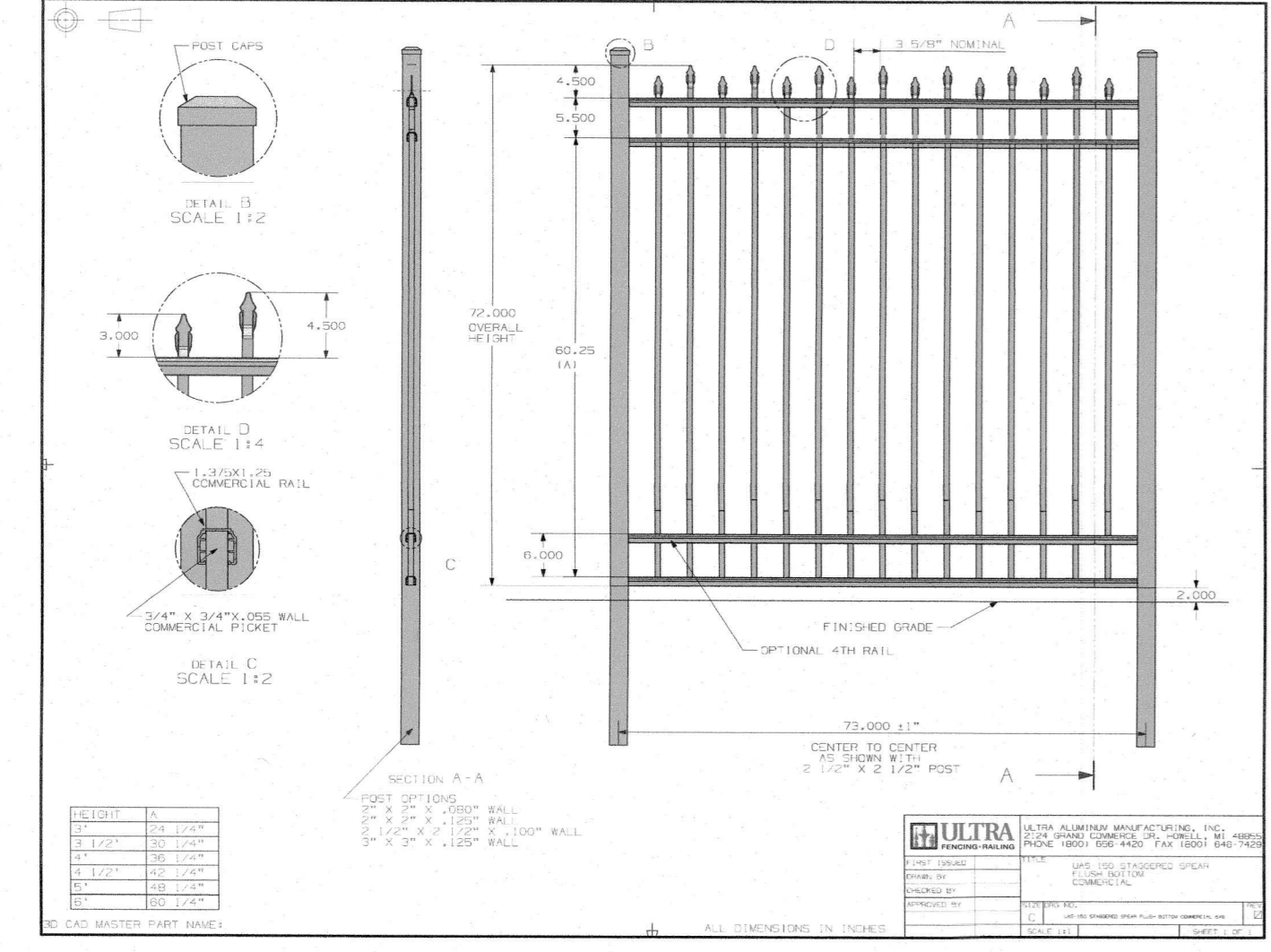
CITY OF WILMINGTON  
NORTH CAROLINA  
CITY OF WILMINGTON ENGINEERING  
PO BOX 1810  
WILMINGTON, NC 28402  
(910) 341-7807

- LANDSCAPE NOTES:**
1. ALL PLANTS SHALL MEET OR EXCEED THE MINIMUM STANDARDS SET FORTH IN "THE AMERICAN STANDARD FOR NURSERY STOCK" BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
  2. ALL AREAS DISTURBED AND NOT SPECIFIED AS MULCHED PLANTING BEDS WILL BE GRASSED. LAWN AREAS MAY BE ESTABLISHED WITH EITHER SOD OR SEED AT THE CONTRACTOR'S DISCRETION. HOWEVER, HE WILL BE HELD LIABLE FOR PROVIDING A FULL STAND OF GRASS AT THE TIME OF COMPLETION.
  3. CONTRACTOR SHALL USE WHATEVER METHOD OF TREE STAKING HE DEEMS FIT. HOWEVER, HE WILL BE HELD LIABLE FOR ANY DAMAGES CAUSED TO TREES BY IMPROPER STAKING METHODS (OR ABSENCE OF STAKING) AND IS RESPONSIBLE FOR UPRIGHTING AND REPLANTING TREES WHICH ARE BLOWN OVER.
  4. CONTRACTOR SHALL WARRANTY ALL TREES AND SHRUBS FOR A PERIOD OF ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE OF THE WORK OF THE LANDSCAPE PLAN.
  5. IF DISCREPANCIES OR AVAILABILITIES ARE FOUND IN THE PLANT SPECIES AND/OR MIN. SIZES REQ'D, CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT. SUBSTITUTIONS MAY BE MADE WITH AUTHORIZATION AS LONG AS THE PLANTS FOLLOW THE INTENDED FORM AND FUNCTION.
  6. THE DEVELOPER SHALL NOTIFY LANDSCAPE DESIGNER PRIOR TO INSTALLATION TO ENSURE PROPER TREE SELECTION & SPACING.
  7. EACH TREE SHALL BE A MINIMUM OF 2" CALIPER AS MEASURED FROM THE DIAMETER AT BREAST HEIGHT (DBH)
  8. TREES WITHIN THE SAME BLOCKS SHALL BE THE SAME SPECIES.
  9. ALL PLANTINGS SHALL BE CURBED OR OTHERWISE PHYSICALLY PROTECTED FROM VEHICULAR TRAFFIC.
  10. THE OWNER IS RESPONSIBLE FOR MAINTAINING ALL REQUIRED PLANT MATERIAL AND PLANTING AREAS IN GOOD HEALTH AND APPEARANCE. ANY DEAD, UNHEALTHY OR MISSING PLANTS MUST BE REPLACED WITHIN 60 DAYS WITH VEGETATION WHICH CONFORMS TO THE INITIAL PLANTING RATES AND STANDARDS.
  11. NO PLANTINGS OVER 30' IN HEIGHT SHALL BE ALLOWED IN VISION CLEARANCE. EXISTING TREES IN THE SIGHT DISTANCE TRIANGLE SHOULD BE LIMBED UP TO ACCOMMODATE THE CODE REGARDING SIGHT DISTANCE TRIANGLES. ALL PROPOSED VEGETATION WITHIN SIGHT TRIANGLES SHALL NOT INTERFERE WITH CLEAR VISION. SIGHT LINES FROM 30' TO 10'.
  12. PRIOR TO ANY CLEARINGS, GRADING, OR CONSTRUCTION ACTIVITY, TREE PROTECTION FENCING WILL BE INSTALLED AROUND PROTECTED TREES OR GROVES OF TREES AND NO CONSTRUCTION WORKERS, TOOLS, MATERIALS, OR VEHICLES ARE PERMITTED WITHIN THE TREE PROTECTION FENCING.
  13. A LANDSCAPING PLAN INDICATING THE LOCATION OF REQUIRED STREET TREES SHALL BE SUBMITTED TO THE CITY OF WILMINGTON TRAFFIC ENGINEERING DIVISION AND PARKS AND RECREATION DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO THE RECORDING OF THE FINAL PLAN. [SD 15-14 CORP TECH STDS]
  14. THERE IS NO CONSERVATION RESOURCES ASSOCIATED WITH THE PARCELS INCLUDING ANY RARE OR ENDANGERED SPECIES IN ACCORDANCE WITH THE NC WILDLIFE RESOURCES COMMISSION.
  15. THE CRITICAL ROOT ZONE (CRZ) SHALL BE PROTECTED DURING CONSTRUCTION BY APPROVED TREE PROTECTION FENCING AND PRACTICES. TREE PROTECTIVE FENCING SHALL BE SHOWN ON SITE PLANS AND GRADING PLANS AROUND EACH TREE. CLUSTER OF TREES AT PERIMETER OF TREE-SAVE AREAS, AND AT LIMITS OF DISTURBANCE. NO EQUIPMENT IS ALLOWED ON THE SITE UNTIL ALL TREE PROTECTION FENCING AND SILT FENCING HAS BEEN INSTALLED AND APPROVED. TREE PROTECTIVE FENCING SHALL REMAIN IN PLACE THROUGH COMPLETION OF CONSTRUCTION ACTIVITIES.
  16. IF THE ENTIRE CRZ CANNOT BE PRESERVED, THE DISTURBED AREA SHALL EXTEND NO CLOSER TO THE PROTECTED TREE TRUNK THAN ONE HALF (1/2) THE RADIUS OF THE CRZ. IN NO CASE CAN MORE THAN 40% OF THE CRZ BE DISTURBED. REFER TO C1.1 FOR ALL EXISTING TREE INFORMATION.
  17. REFER TO ALL C2.0 FOR ALL PROPERTY OWNER, ADDRESS INFORMATION AND GENERAL SITE PLAN DETAILS.
  18. AMENDED SOIL SHALL BE COMPOSED OF 50% HIGH QUALITY TOPSOIL AND 50% PROFESSIONAL GRADE COMPOST
  19. STRUCTURAL SOIL SHALL BE CULTURAL SOIL OR EQUIVALENT COMPOSITION

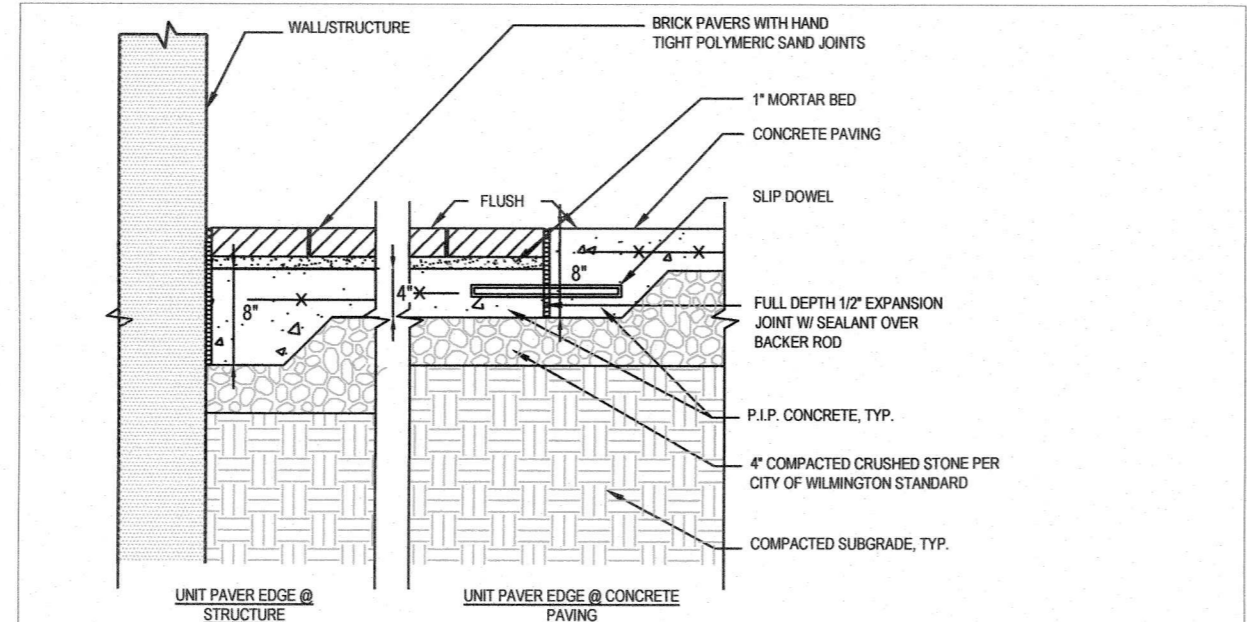
NOTE: TWO SMALL TREES PROPOSED IN PLACE OF REQUIRED CANOPY TREES DUE TO OVERHEAD POWER LINES AND MINIMUM SPACING STANDARDS



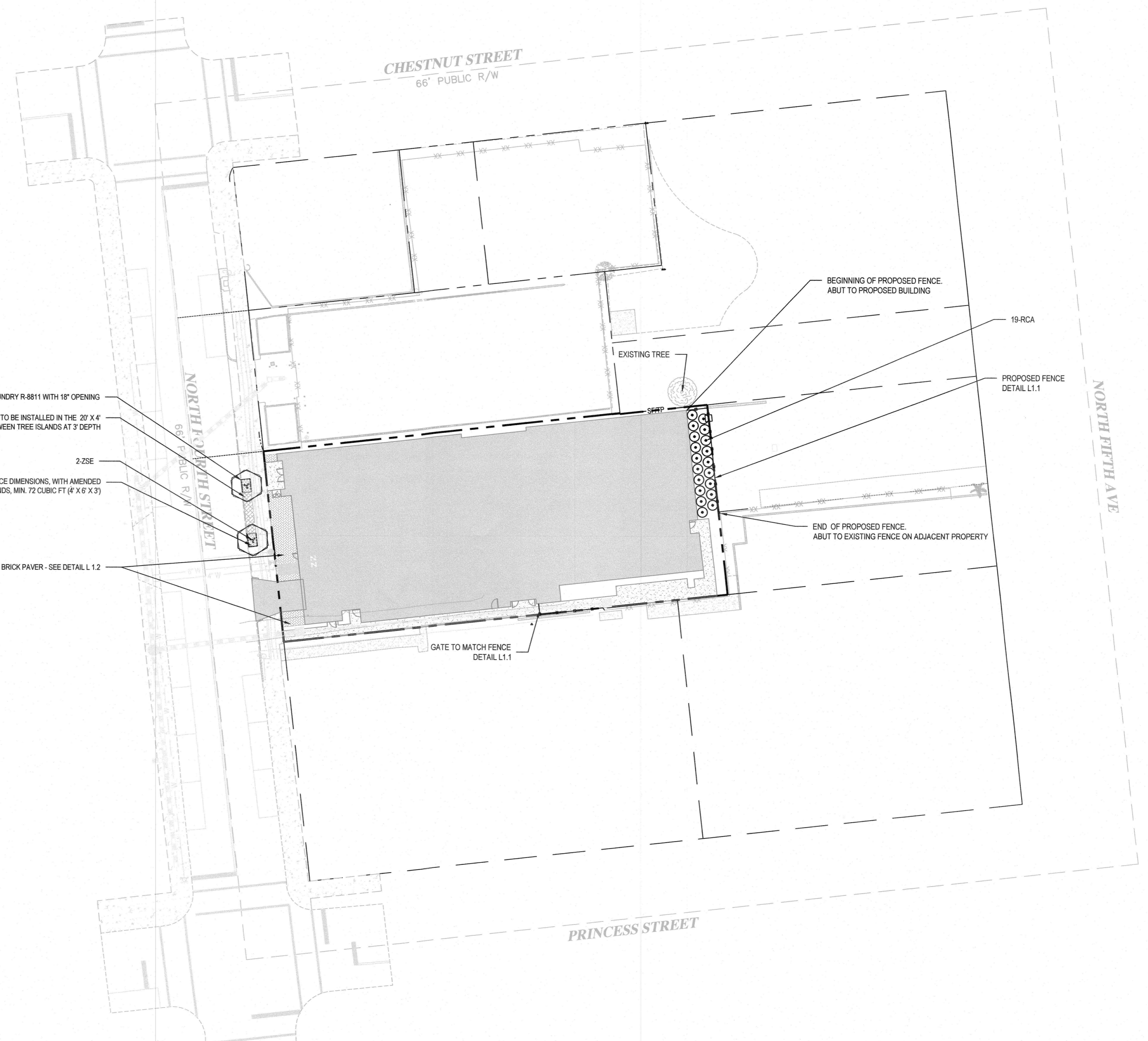
- NOTES:
1. ALL SHRUBS SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MOST RECENT AMERICAN STANDARDS FOR NURSERY STOCK PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN (A.A.N.S.).
  2. SOIL ANALYSIS SHALL BE OBTAINED PRIOR TO PLANTING. SOIL SHALL BE AMENDED AS RECOMMENDED.
  3. SHEET PREPARATION OF BEDS IS HIGHLY PREFERRED TO INDIVIDUAL DOG HOLES.



**L1.1 - PROPOSED FENCE SECTION**  
NOTE: GATE TO MATCH FENCE | UAS-150 W STAGGERED SPEAR WALK GATE



- NOTES:
1. INSTALL 1/2" EXPANSION JOINT WITH SEALANT WHEN PAVING IS ADJACENT TO VERTICAL FACIES, CURBS, STEPS, ANY FIXED OBJECT, OR OTHER RIGID PAVING MATERIAL, AND AT MAXIMUM 20' O.C. UNLESS OTHERWISE NOTED ON PLANS.
  2. MINIMUM SLOPE OF PAVERS TO BE 2% IN ALL DIRECTIONS.
  3. REFER TO PAVEMENT MANUFACTURER SPECIFICATIONS FOR FURTHER INFORMATION ON PAVEMENT INSTALLATION.



CITY OF WILMINGTON  
NORTH CAROLINA  
Public Services • Engineering Division  
APPROVED STORMWATER MANAGEMENT PLAN

Date: \_\_\_\_\_ Permit # \_\_\_\_\_

Signed: \_\_\_\_\_

Approved Construction Plan

Name \_\_\_\_\_ Date \_\_\_\_\_

Planning \_\_\_\_\_

Public Utilities \_\_\_\_\_

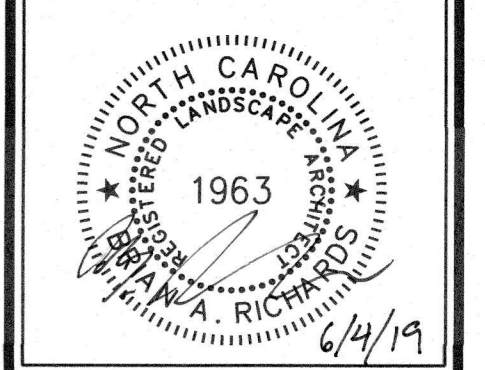
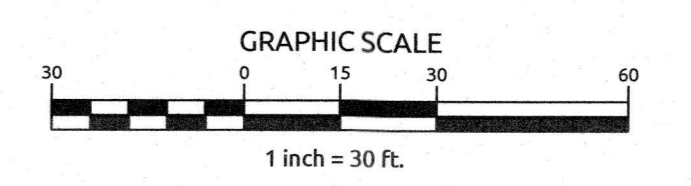
Traffic \_\_\_\_\_

Fire \_\_\_\_\_

QTY	KEY	BOTANICAL NAME	COMMON NAME	ROOT	SIZE	HEIGHT	NOTES
2	ZSE	<i>Zelkova serata</i> 'City Sprite'	City Sprite Zelkova	B&B	2.5" CAL. MIN.		SINGLE TRUNK LMB TO 4'
19	RCA	<i>Rhododendron indica</i> 'George Tabor'	George Tabor Azalea	CONT.	3 GAL. MIN.		PINK BLOOMING

Note: If specified plant varieties are not available contractor must consult City of Wilmington forestry staff for approved alternates

For each open utility cut of City streets, a \$325 permit shall be required from the City prior to occupancy and/or project acceptance.

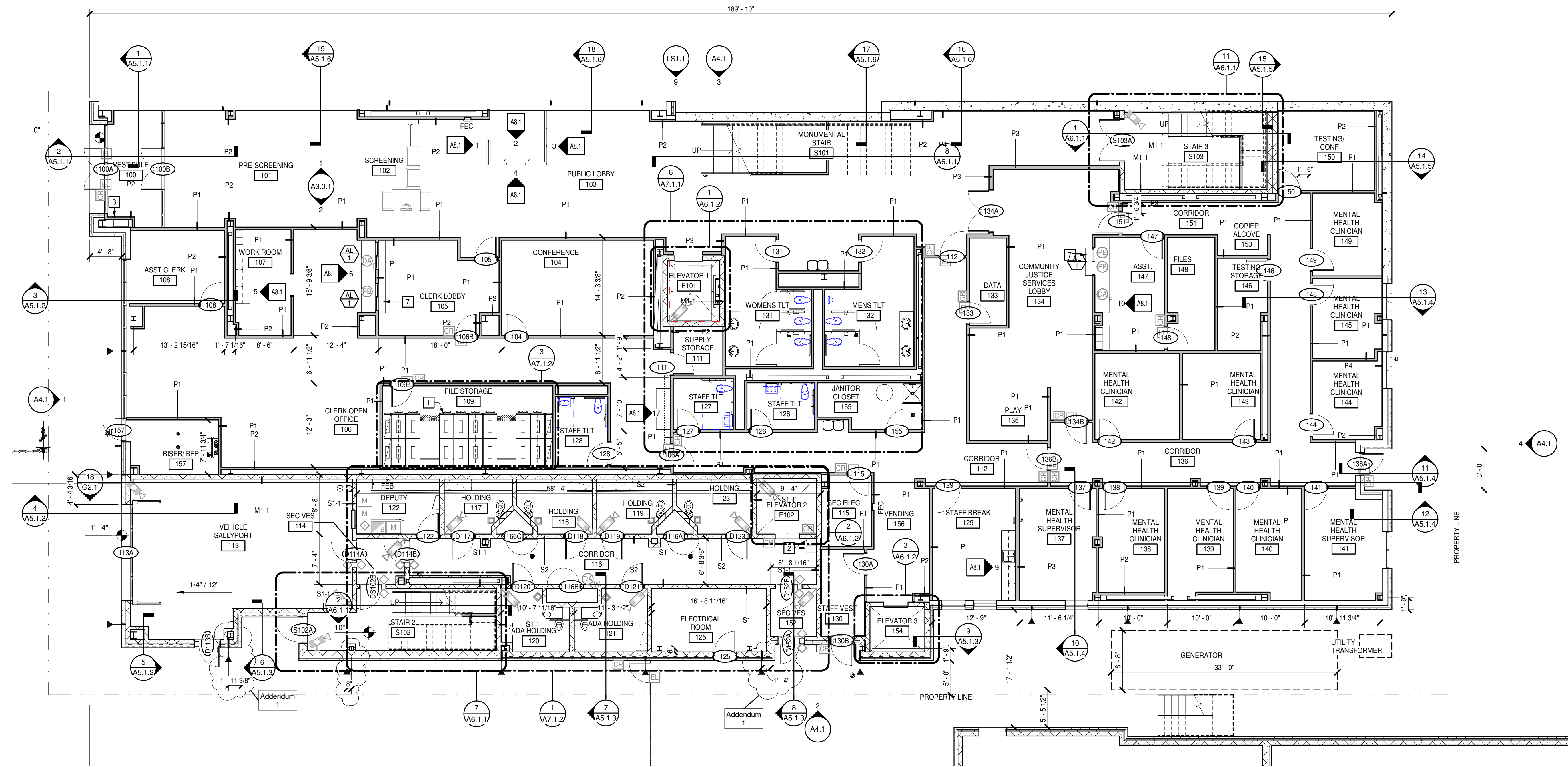


Revisions


W:\1810\0720\0025A-New Hanover - 1 - Countryside\CD\CD\Drawings\LD\_LANDSCAPE\_Plan.dwg, Wednesday, June 13, 2019 10:46:43 AM, WAT/TSK/ADAM



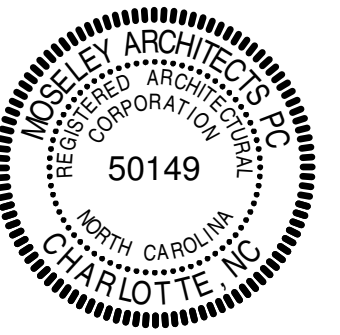
FLOOR PLAN KEYNOTES	
REPRESENTED BY [ ]	
APPLIES TO DRAWINGS A2.1 - A2.3	
1	MANUAL MOBILE STORAGE SHELVING - REFER TO SPECIFICATION 105626.13
2	5-TIER LOCKERS - 12" W X 18"D X 72"H
3	RECESSED MOUNTED, VERTICAL USPS MAILBOX - MOUNT AT 28" AFF TO BOTTOM OF UNIT. REFER TO SPECIFICATION 105500.13
4	GB PARTITION 36"H WITH 1/2" CLEAR ANODIZED ALUMINUM REVEAL AND A 6" WIDE BY 1/2" THICK DOUBLE-EASED EDGE SSM CAP
5	MANUAL ROLLER SHADES AT ALL EXTERIOR OFFICE, CONFERENCE ROOMS, STORAGE, TRAINING ROOM WINDOWS AND AT ALL LOCATIONS INDICATED.
5.a	NOTE REMOVED
6	12" x 4" HIGH MARKER BOARD
7	12" DEEP QUARTZ WRITING SURFACE BELOW TRANSACTION WINDOW. TOP OF COUNTER AT 34" A.F.F. - PROVIDE HIDDEN COUNTERTOP SUPPORTS SPECIFIED IN SPECIFICATION 064023.



**NEW DJJ FACILITY**  
 NEW HANOVER COUNTY  
 WILMINGTON, NC

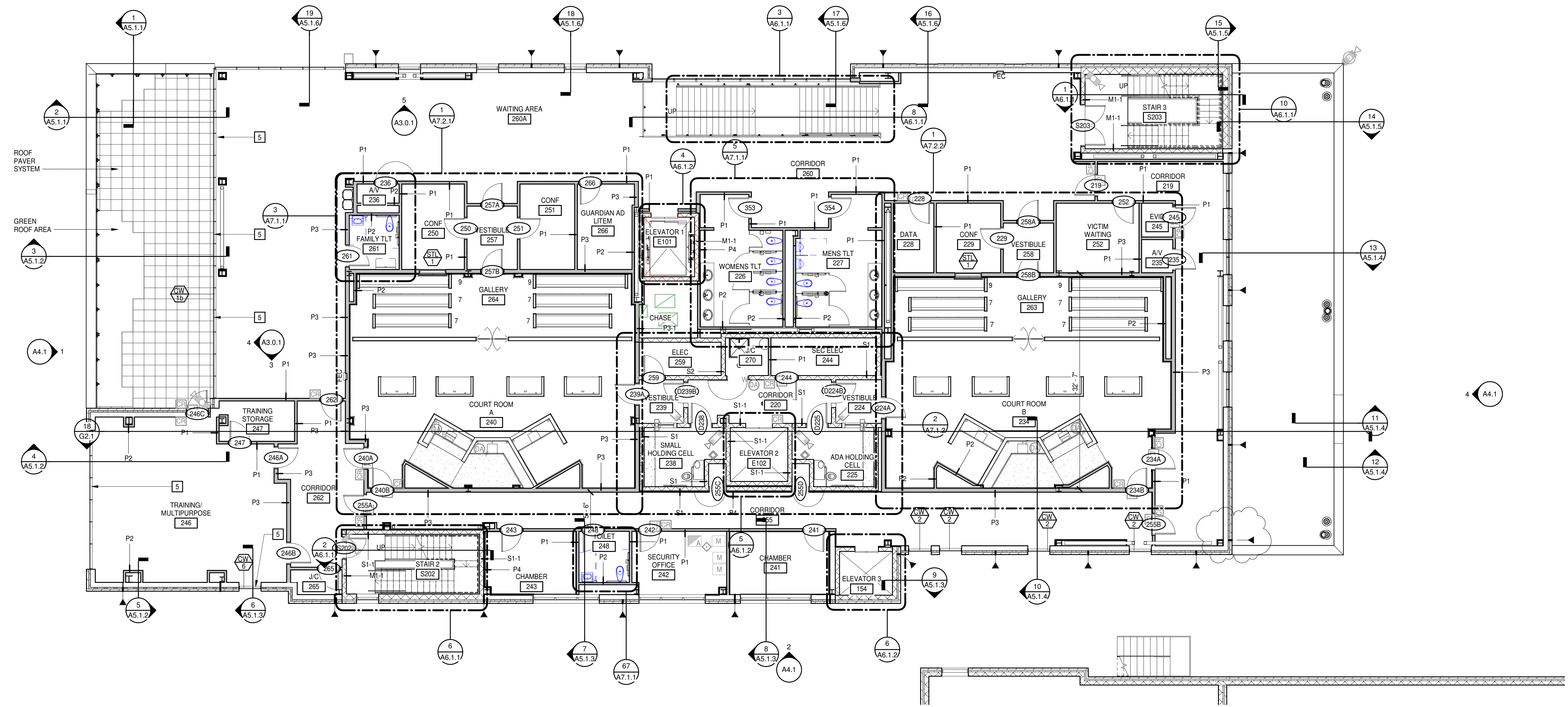
PROJECT NO.	DATE
571990	MAY 22, 2019
REVISIONS	
DATE	DESCRIPTION
6/5/19	Addendum 1

FIRST FLOOR PLAN



FLOOR PLAN KEYNOTES	
REPRESENTED BY [A]	
APPLIES TO DRAWINGS A2.1 - A2.3	
1	MANUAL MOBILE STORAGE SHELVING - REFER TO SPECIFICATION 105626.13
2	5-TIER LOCKERS - 12" W X 18"D X 72"H
3	RECESSED MOUNTED, VERTICAL USPS MAILBOX - MOUNT AT 28" AFF TO BOTTOM OF UNIT. REFER TO SPECIFICATION 105500.13.
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5	MANUAL ROLLER SHADES AT ALL EXTERIOR OFFICE, CONFERENCE ROOMS, STORAGE, TRAINING ROOM WINDOWS AND AT ALL LOCATIONS INDICATED.
5.a	NOTE REMOVED
6	12' x 4' HIGH MARKER BOARD
7	12" DEEP QUARTZ WRITING SURFACE BELOW TRANSACTION WINDOW. TOP OF COUNTER AT 34" A.F.F. - PROVIDE HIDDEN COUNTERTOP SUPPORTS SPECIFIED IN SPECIFICATION 064023.

Addendum 1



**NEW DJJ FACILITY**

NEW HANOVER COUNTY  
 WILMINGTON, NC

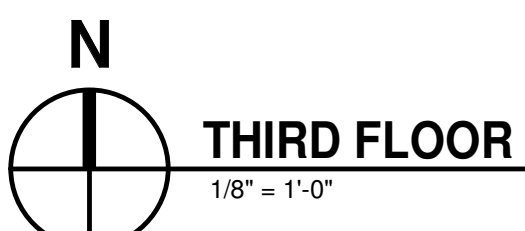
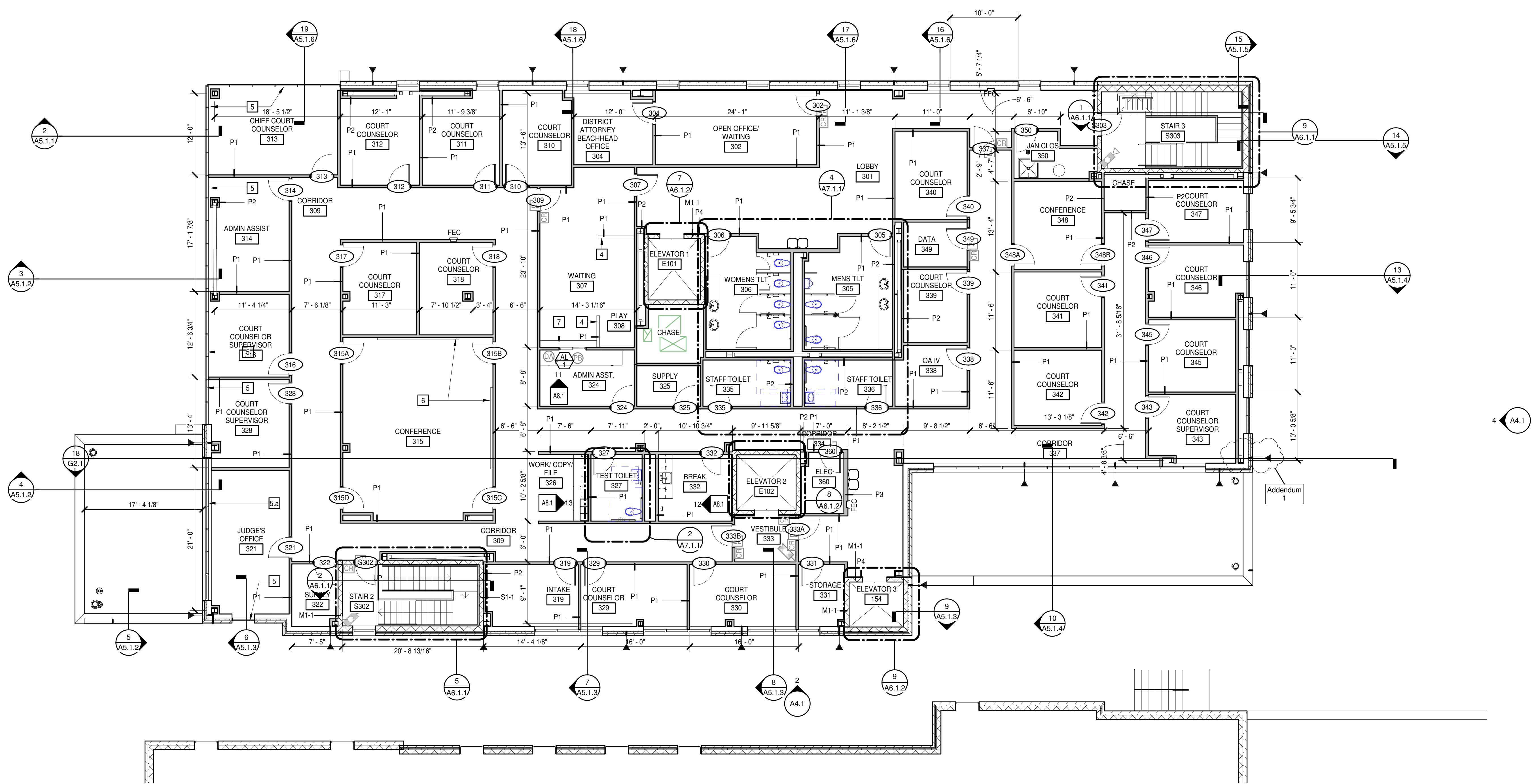
PROJECT NO:	DATE:
571990	MAY 22, 2019
DATE:	REVISIONS:
5/5/19	Addendum 1

SECOND FLOOR  
 PLAN

**A2.2**



FLOOR PLAN KEYNOTES	
REPRESENTED BY [Symbol]	
APPLIES TO DRAWINGS A2.1 - A2.3	
1	MANUAL MOBILE STORAGE SHELVING - REFER TO SPECIFICATION 105626.13
2	5-TIER LOCKERS - 12" W X 18"D X 72"H
3	RECESSED MOUNTED, VERTICAL USPS MAILBOX - MOUNT AT 28" AFF TO BOTTOM OF UNIT. REFER TO SPECIFICATION 105500.13.
4	GB PARTITION 36"H WITH 1/2" CLEAR ANODIZED ALUMINUM REVEAL AND A 6" WIDE BY 1/2" THICK DOUBLE-EASED EDGE SSM CAP
5	MANUAL ROLLER SHADES AT ALL EXTERIOR OFFICE, CONFERENCE ROOMS, STORAGE, TRAINING ROOM WINDOWS AND AT ALL LOCATIONS INDICATED.
5.a	NOTE REMOVED
6	12" x 4' HIGH MARKER BOARD
7	12" DEEP QUARTZ WRITING SURFACE BELOW TRANSACTION WINDOW. TOP OF COUNTER AT 34" A.F.F. - PROVIDE HIDDEN COUNTERTOP SUPPORTS SPECIFIED IN SPECIFICATION 064023.

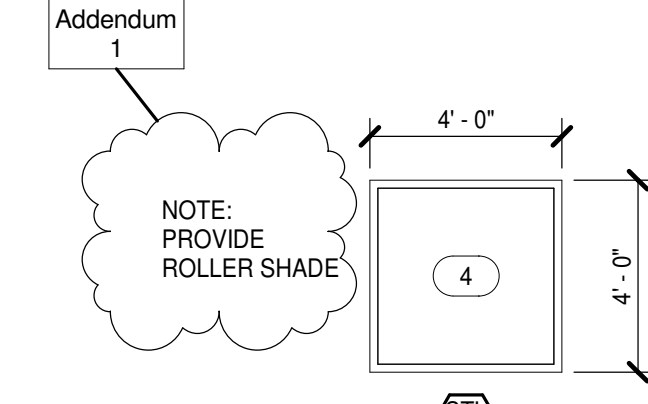
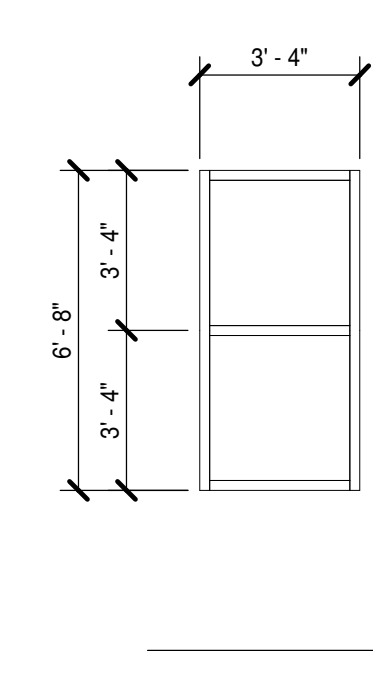
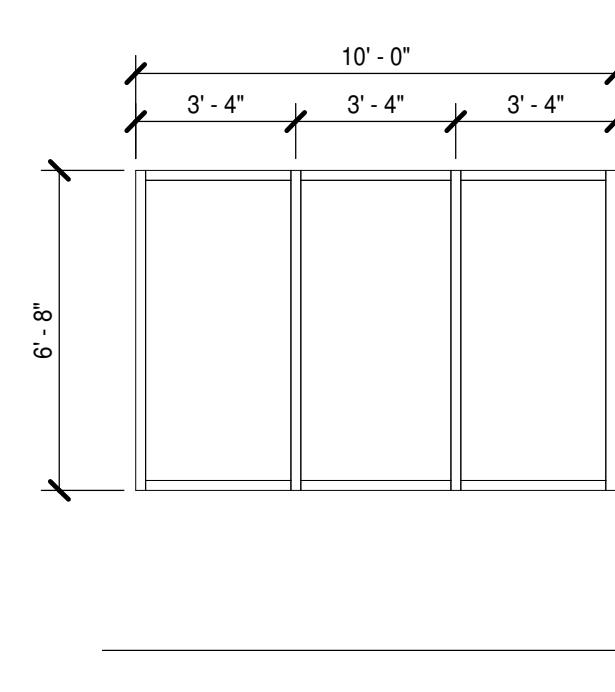
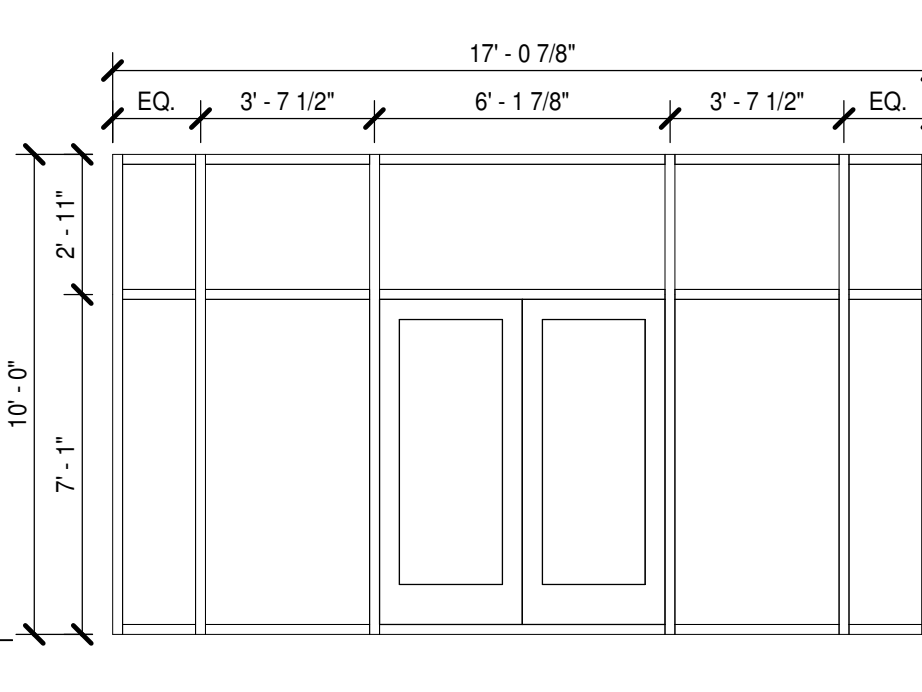
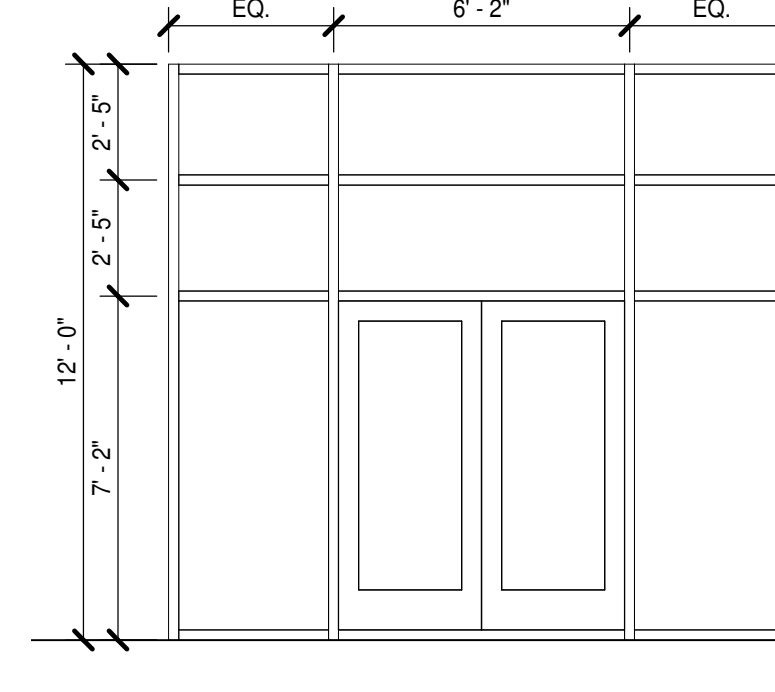
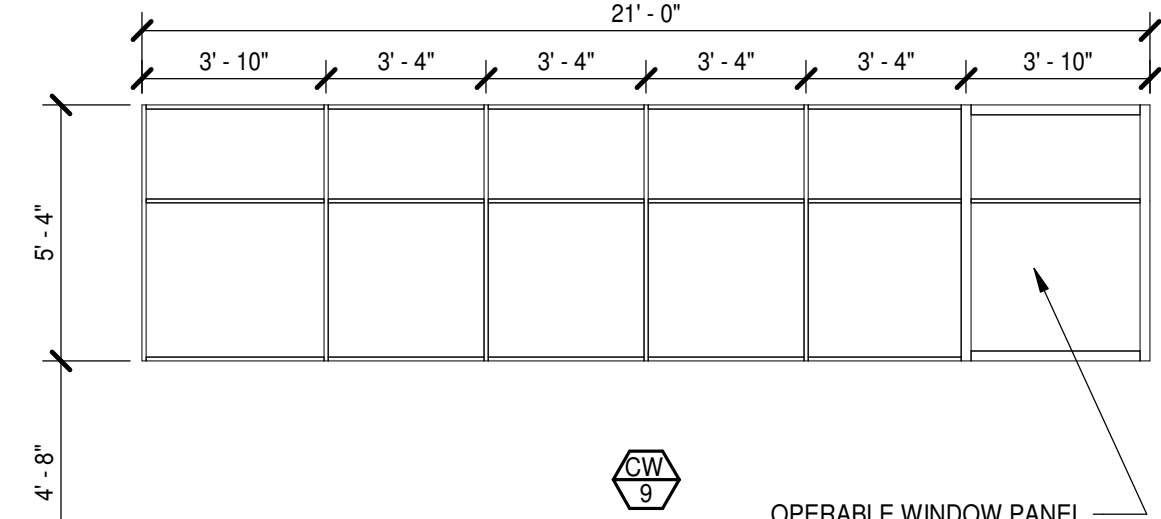
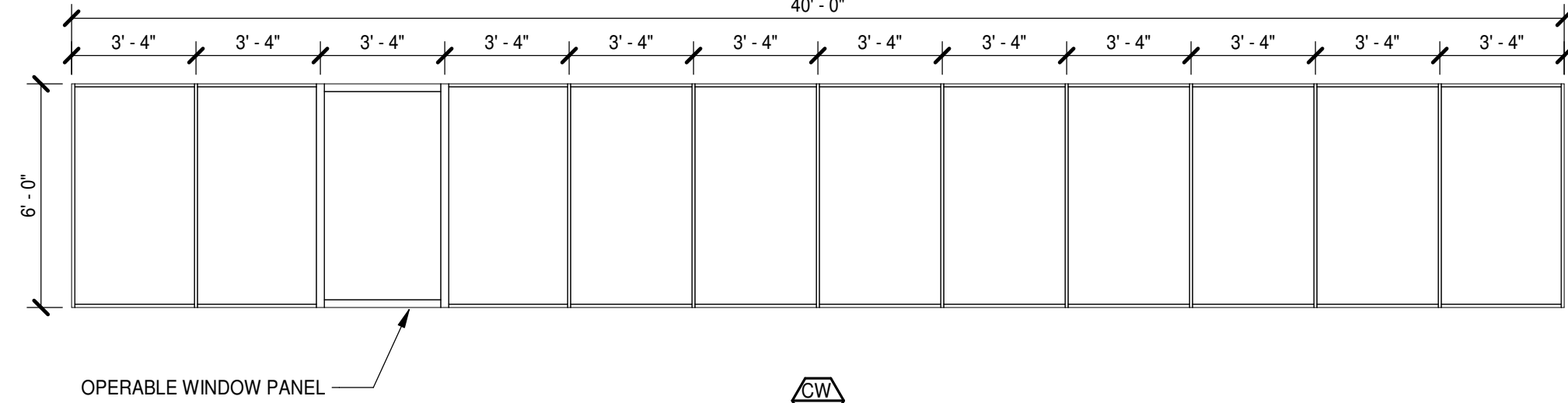
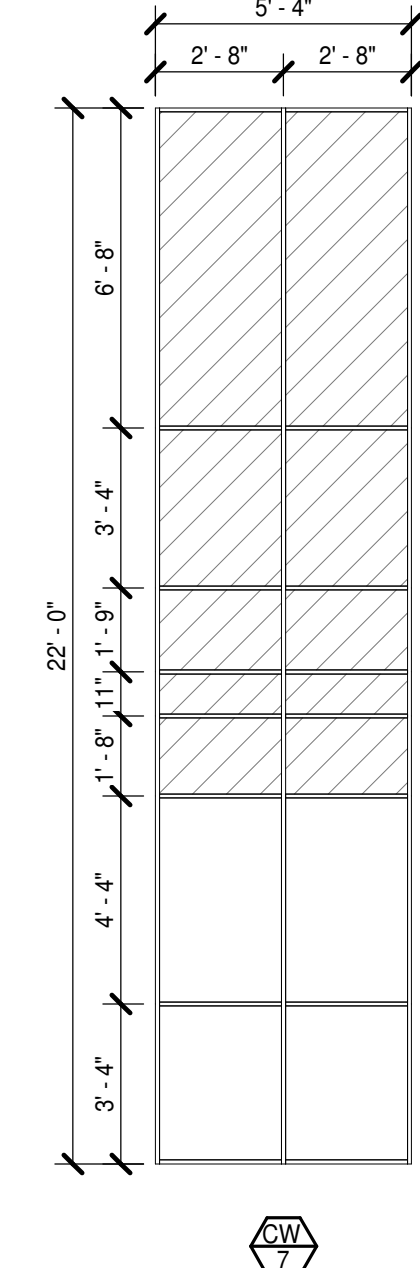
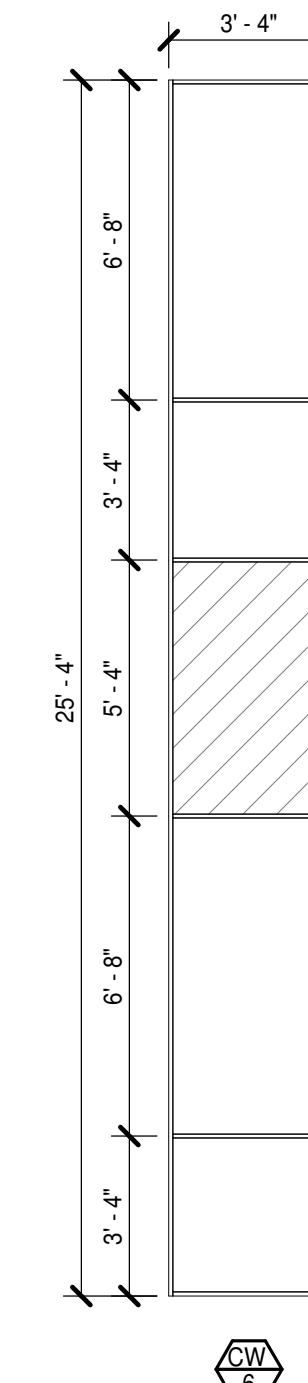
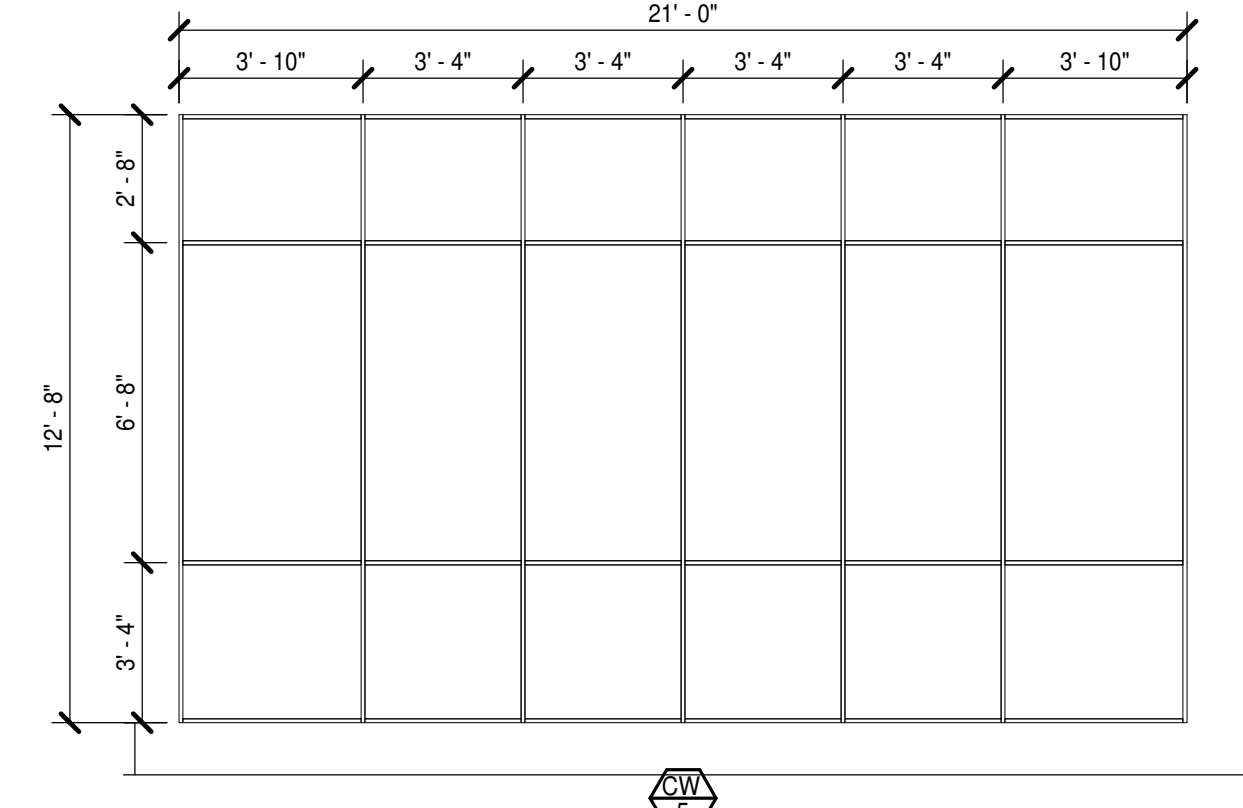
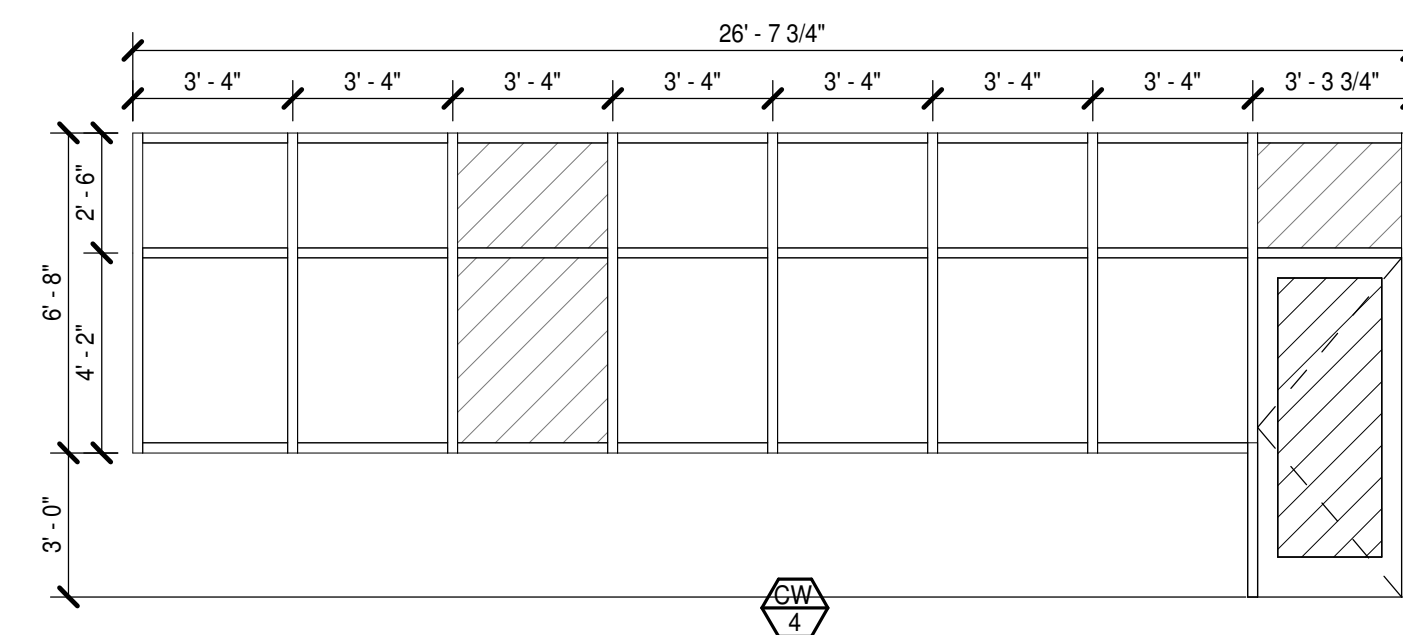
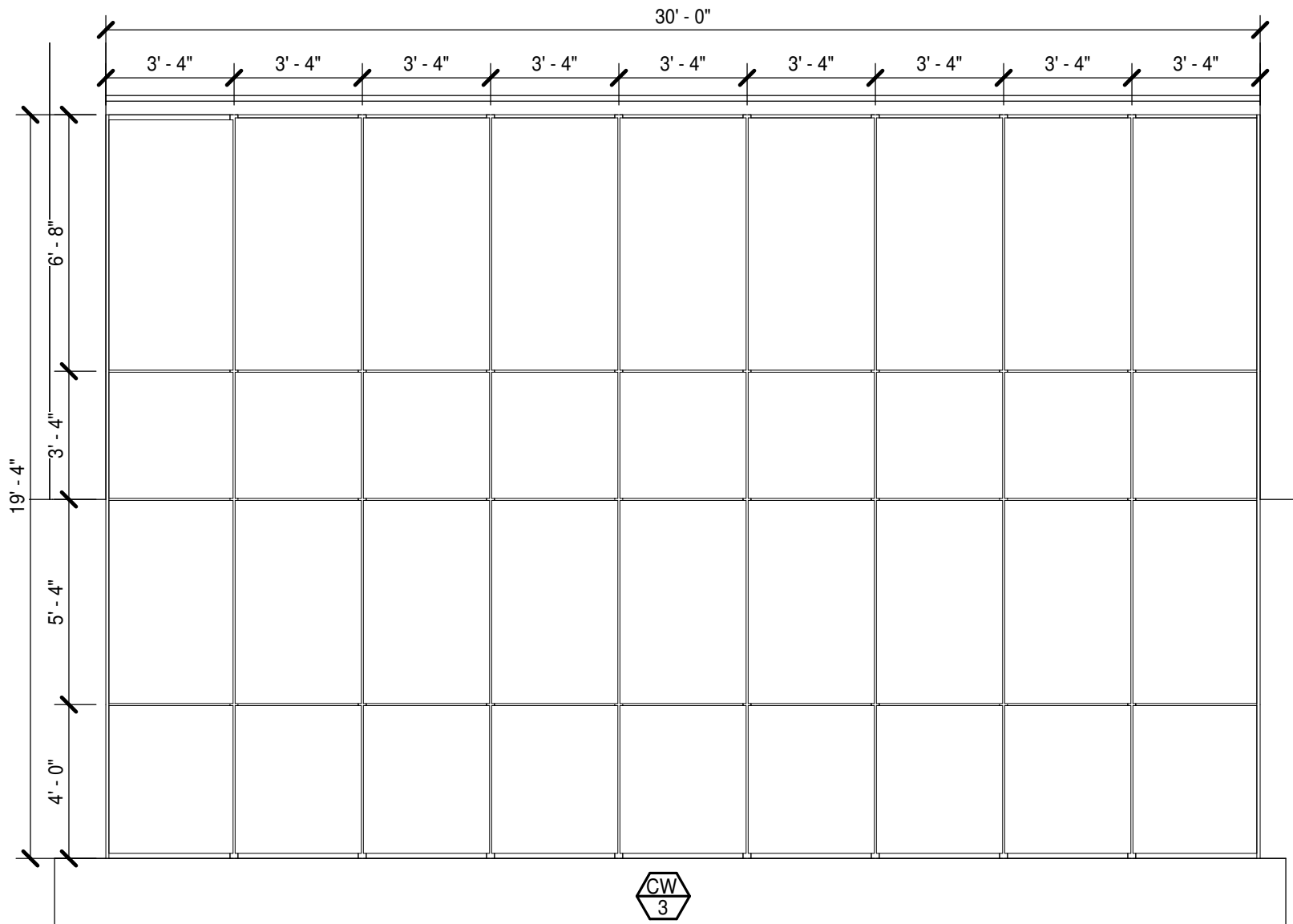
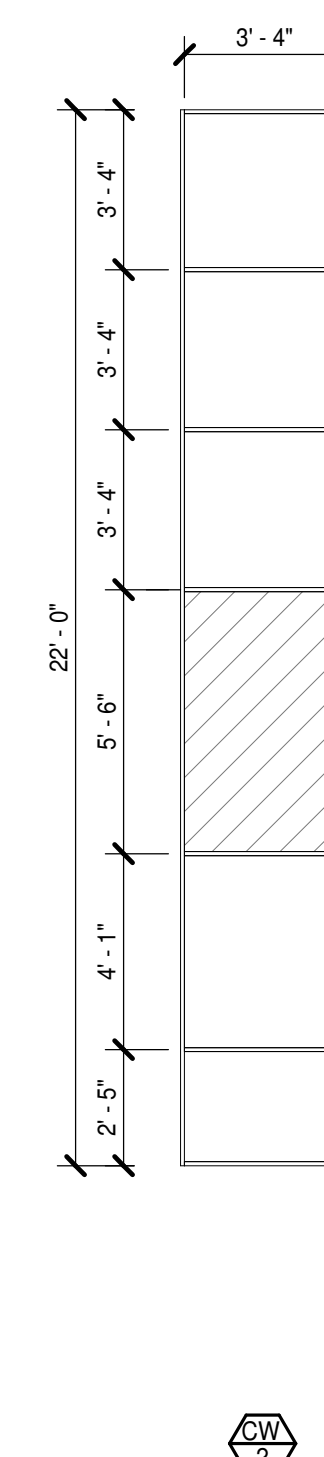
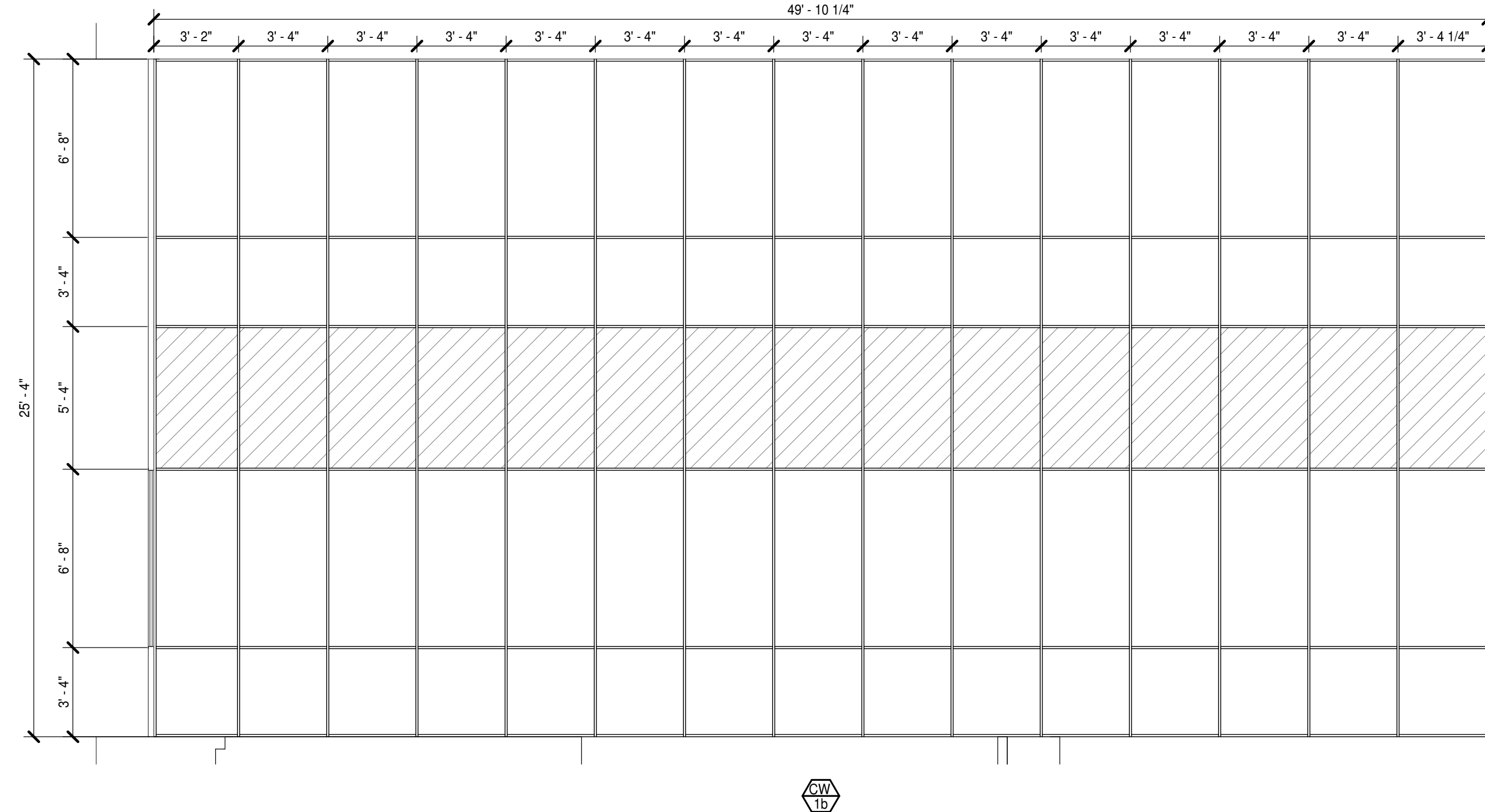
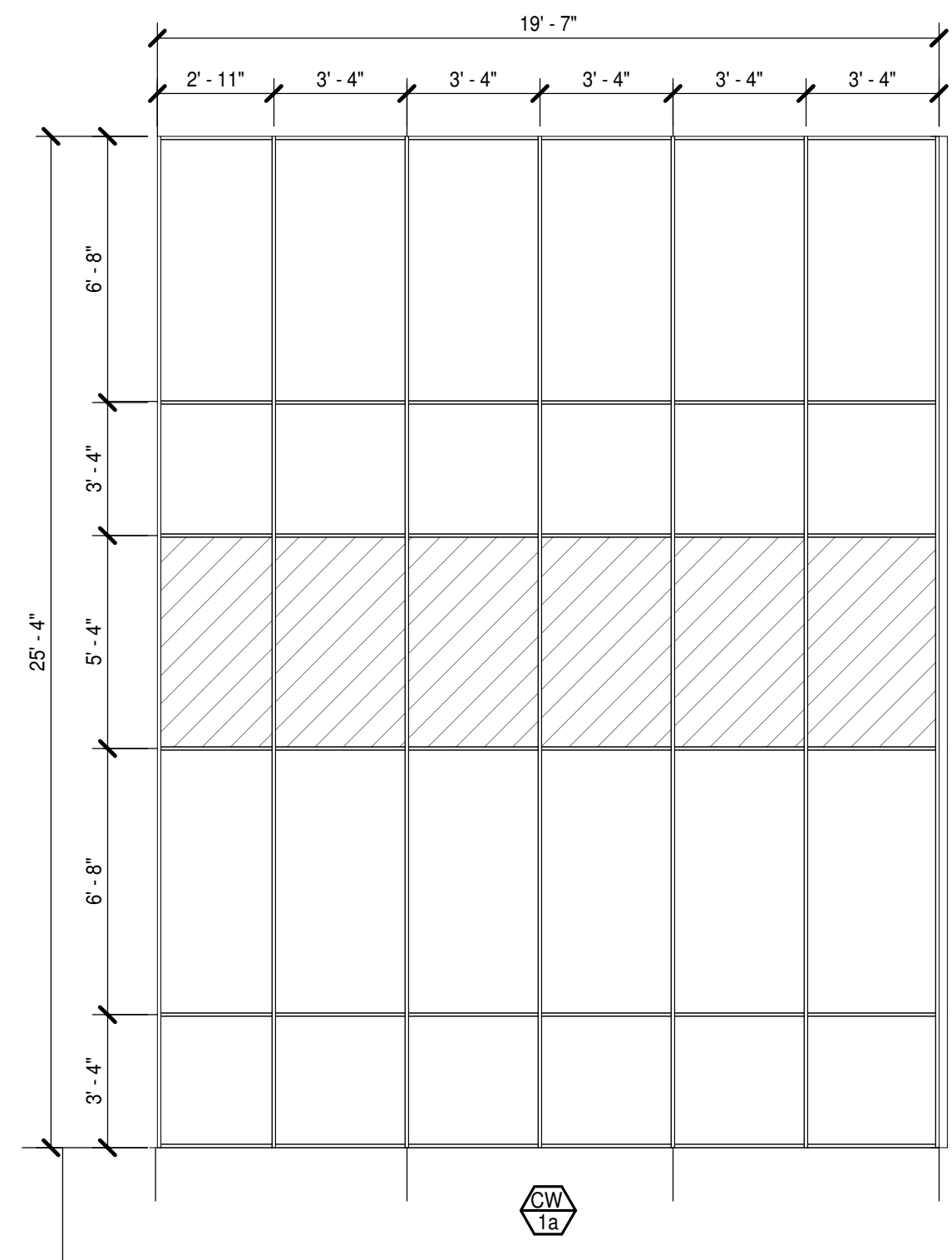


**NEW DJJ FACILITY**

NEW HANOVER COUNTY  
 WILMINGTON, NC

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6/5/19	Addendum 1

THIRD FLOOR PLAN



**CURTAIN WALL ELEVATIONS**  
1/4" = 1'-0"

**ALUMINUM STOREFRONT**  
1/4" = 1'-0"

**SLIDING TRANSACTION WINDOW**  
1/4" = 1'-0"

**DOOR, FRAME AND GLAZING TYPE GENERAL NOTES**

REFER TO DWG A3.1.n FOR GLAZING TYPE LEGEND AND NOTES

REFER TO DWG A3.2.1-A3.2.n FOR DETAILS

REFER TO DWG A3.1.n FOR KEYNOTE LEGEND

A. NOTE...

B.

**GLAZING TYPES**  
REPRESENTED BY [n]

- 1/4" CLEAR
- 1" LOW-E CLEAR INSULATING
- 1" SPANDREL PANEL
- TWO-WAY GLAZING (PRIVACY FILM)
- SPANDREL-GLAD POLYCARBONATE SECURITY GLAZING

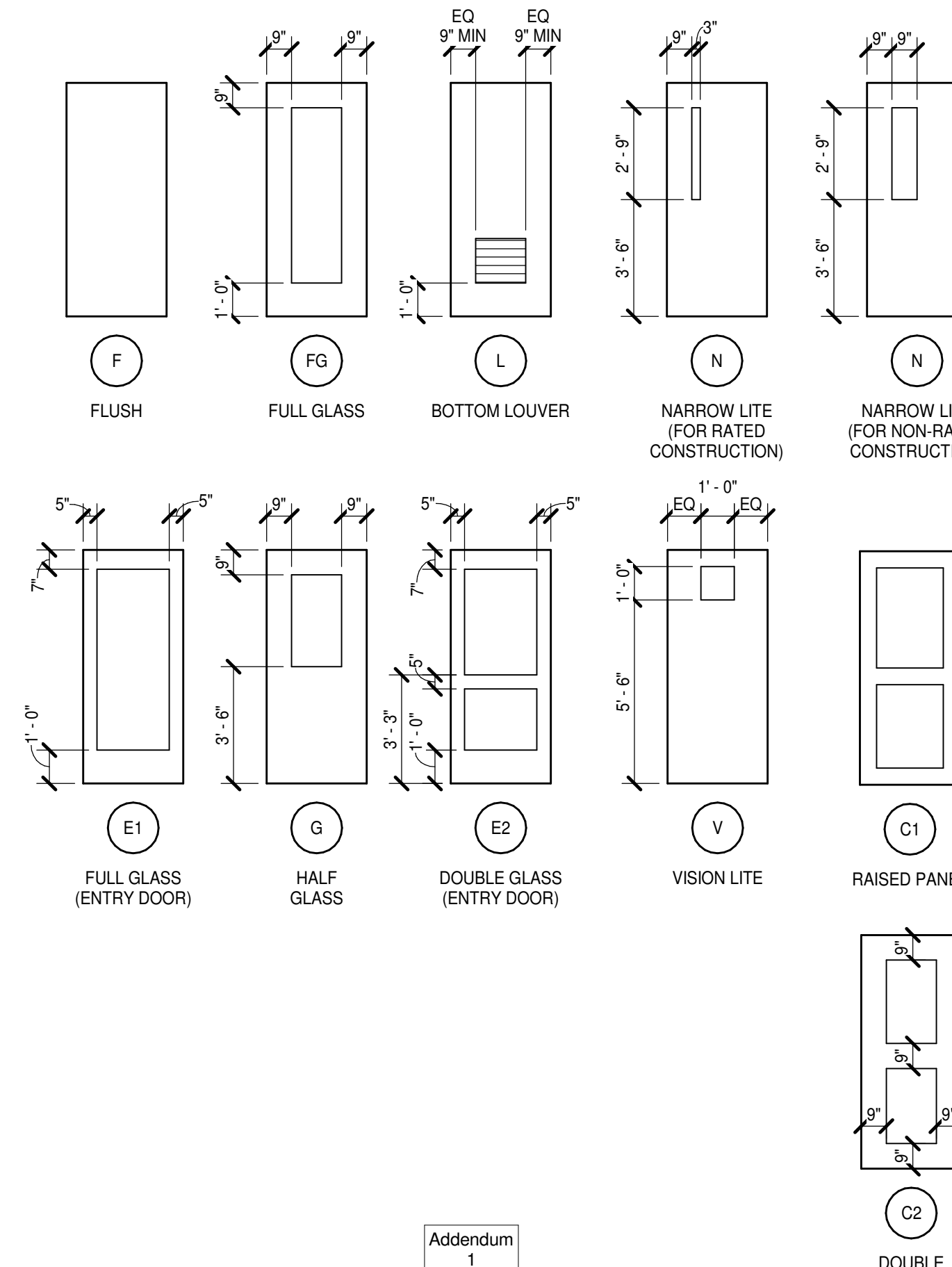
**NOTES:**

1. ALL GLAZING IN INTERIOR FRAMES SHALL BE TYPE 1, UNO
2. ALL GLAZING IN EXTERIOR FRAMES SHALL BE TYPE 2, UNO
3. GLAZE ALL OPENINGS IN FRAMES UNLESS SPECIFICALLY INDICATED OTHERWISE
4. ALL GLAZING SHALL BE SAFETY GLASS UNLESS INDICATED OTHERWISE

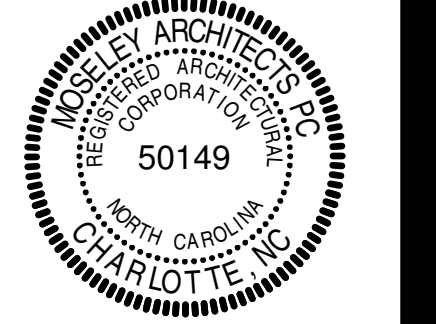
**DOOR, FRAME AND GLAZING TYPE KEYNOTES**  
REPRESENTED BY [n]

APPLIES TO DRAWINGS A3.1.1 - A3.1.n

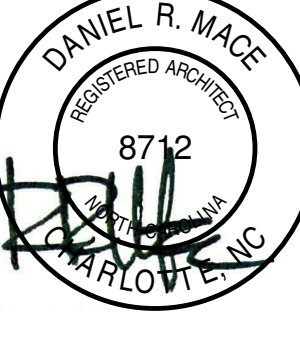
1. SIZE AS REQUIRED TO ACCOMMODATE DOOR, HARDWARE AND FRAME COMPONENTS.



**STEEL WINDOWS**  
1/4" = 1'-0"



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6/5/19	Addendum 1

**GENERAL NOTES**

- A. THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- B. THE OWNER WILL AWARD A SEPARATE CONTRACT OR CONTRACTS TO PROVIDE THE SECURITY CONTROL SYSTEM, INCLUDING, BUT NOT LIMITED TO, FIELD DEVICES, HARDWARE, PROGRAMMING, WIRE AND CABLING FOR ACCESS CONTROL, VIDEO SURVEILLANCE, DURESS, ETC. AS INDICATED ON THE DRAWINGS. PROVIDE EMPTY CONDUIT SYSTEM WITH BACK BOXES AND PULL STRING UNDER THIS CONTRACT. COORDINATE CONDUIT INSTALLATION AND REQUIRED BACK BOXES WITH OWNER'S DESIGNATED PERSONNEL AND INSTALLERS. DEVICE LOCATIONS INDICATED ON THE SECURITY ELECTRONICS (SE) DRAWINGS ARE PROVIDED FOR REFERENCE, BUT DEVICES ARE NOT UNLESS NOTED OTHERWISE.
- C. ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM. DEVICES IN THE DETENTION AREAS SHALL BE RUN COMPLETELY IN CONCEALED CONDUIT. FOR DEVICES IN NON-DETENTION AREAS, PROVIDE CONDUIT TO STUB ABOVE CEILING AND TO ENTER THE EQUIPMENT ROOM, BUT WIRE AND CABLING MAY BE RUN IN CABLE TRAY BETWEEN THOSE LOCATIONS.
- D. COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON NEEDS IN THE FIELD AND ACTUAL CAMERA MODELS BEING USED.
- E. DOUBLE DOORS INDICATED FOR ELECTRONIC CONTROL SHALL HAVE AN ELECTRIC LOCK/ ELECTRIFIED EXIT DEVICE, DOOR POSITION SWITCH, AND INTEGRAL REQUEST-TO-EXIT FUNCTION FOR EACH DOOR IN THE OPENING.

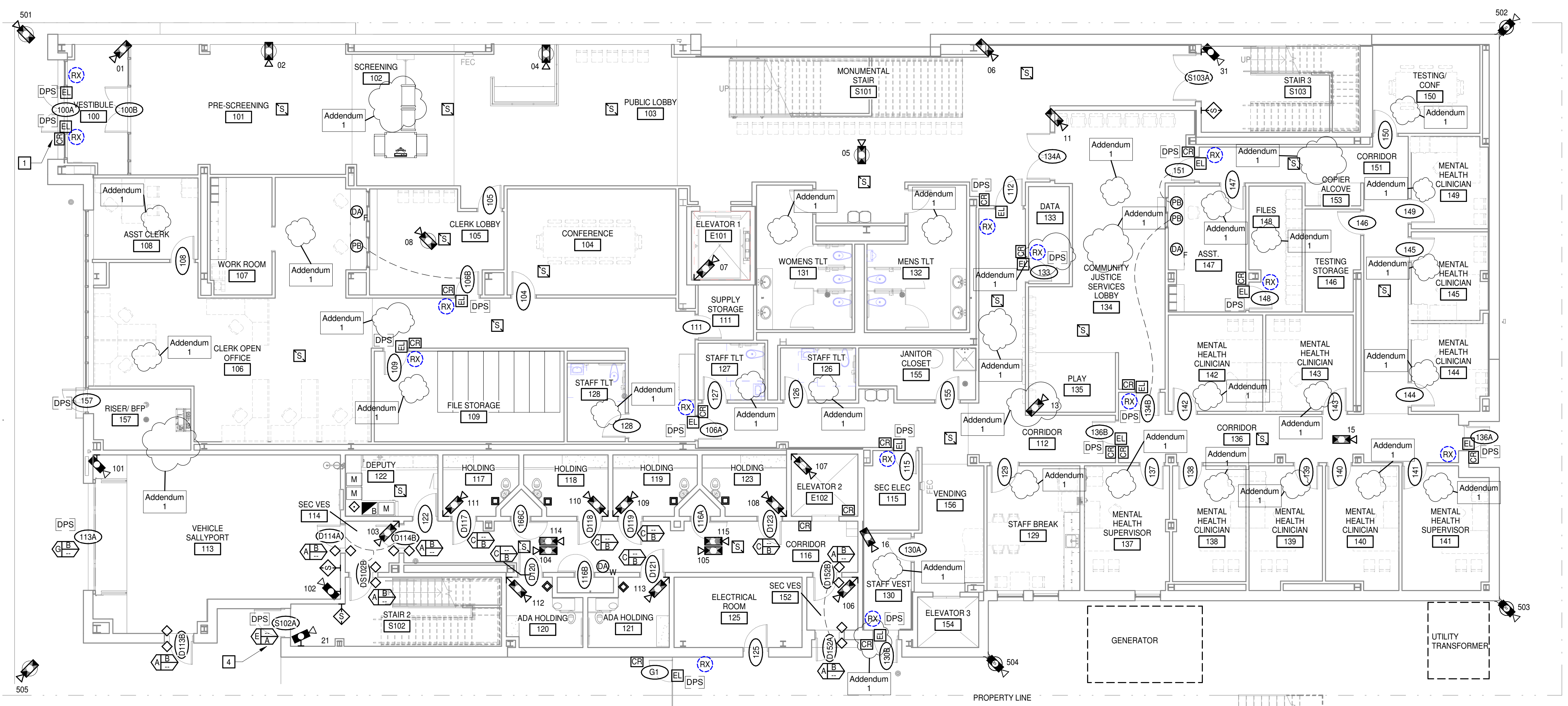
**SECURITY SYSTEMS LEGEND**  
 (ALL SYMBOLS NOT NECESSARILY USED)

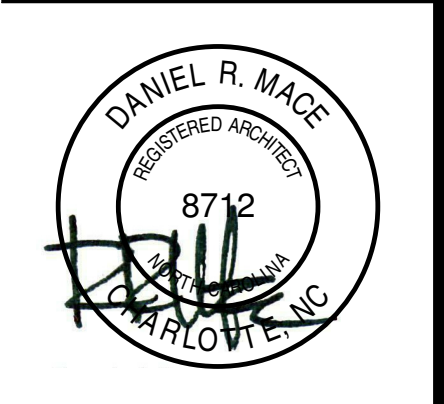
- [PLC] PROGRAMMABLE LOGIC CONTROLLER CABINET AND/OR RELAY CABINET
  - [RACK] SECURITY EQUIPMENT RACK
  - [UPS] UNINTERRUPTIBLE POWER SUPPLY
  - [MD] METAL DETECTOR
  - [CR] PROXIMITY CARD READER
  - [KP] CARD READER AND KEYPAD
  - [GB] GLASS BREAK SENSOR
  - [MD] MOTION DETECTOR
  - [DA<sub>w</sub>] DURESS ALARM - WALL MTD (48" AFF)
  - [DA<sub>f</sub>] DURESS ALARM - FURNITURE MOUNTED- COORDINATE WITH FURNITURE PROVIDER
  - [MINT] MASTER INTERCOM
  - [INT] INTERCOM WALL STATION (48" AFF TO BUTTON)
  - [EMINT] INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18" AFF)
  - [S] PAGING SPEAKER
  - [C] CALL BUTTON
  - [H-T] TALK THRU COMMUNICATOR
  - [H-U] TALK THRU UNIT
  - [M] VIDEO MONITOR
  - [CCTV-F] CCTV CAMERA - FIXED
  - [CCTV-PTZ] CCTV CAMERA - PTZ
  - [CCTV-M] CCTV CAMERA - MULTI-LENS (360°/180°)
  - [A/B/C] DOOR CONTROL / MONITORING REFER TO "DOOR CONTROL / MONITORING LEGEND"
  - [D1/D2] DOOR INTERLOCK
  - [PB] DOOR RELEASE PUSHBUTTON
  - [X] GRAPHICAL USER INTERFACE: A = MASTER CONTROL, B = DETENTION CONTROL
- REFER TO SPEC SECTION 08 71 00**
- [DPS] DOOR POSITION SWITCH
  - [EL] ELECTRIC LOCK DEVICE
  - [RX] REQUEST TO EXIT DEVICE
  - [DE] DELAYED EGRESS DEVICE

**DOOR CONTROL / MONITORING LEGEND**  
 (NOT ALL SYMBOLS NECESSARILY USED)

[A] CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM	[A] 8" JAMB MTD ELECTRO-MECHANICAL LOCK	[M] SWING DOOR INSTITUTIONAL MORTISE ELECTRIC LOCK
[B] CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM	[B] 2" JAMB MTD ELECTRO-MECHANICAL LOCK	[S] SWING OR SLIDING GATE W/ INTERFACING TO SECURITY CONTROL TOUCHSCREEN
[C] LOCK TYPE	[C] SWING DOOR MANUAL DETENTION LOCK	[H] SWING DOOR MANUAL LOCK
	[D] ELECTRO-MECHANICAL SLIDING DOOR DEVICE	[N] -NOT USED-
	[E] NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN	

- KEYNOTES**  
 APPLIES TO DRAWINGS SE2.1 - SE2.3  
 REPRESENTED BY [N]
- LOBBY ENTRANCE TO BE OPEN DURING BUSINESS HOURS VIA THE ACCESS CONTROL SYSTEM. OWNER SHALL BE PROVIDED MEANS TO OVERRIDE DOOR SCHEDULE AND LOCK DOWN DOORS IN EVENT OF EMERGENCY.
  - INTEGRATE ACCESS CONTROL WITH DELAYED EGRESS DEVICE TO SHUNT ALARM FOR EXIT AND RESET IT IF ACTIVATED.
  - PROVIDE DOOR POSITION SENSOR TO MONITOR DOOR TO ROOF ACCESS.
  - LOCAL ALARM ON PANIC HARDWARE AND DOOR SHALL ALARM LOCALLY AND AT DETENTION TOUCH SCREEN EVERY TIME IT IS OPENED.
  - PROVIDE CONDUIT FOR FRAME MOUNTED TALK THRU UNIT FOR LOW VOLTAGE POWER FROM SECURITY ELECTRONICS EQUIPMENT ROOM. NOTE TU BASIS OF DESIGN: HAVEN SC-600.





DOOR CONTROL / MONITORING LEGEND (NOT ALL SYMBOLS NECESSARILY USED)		
	8" JAMB MTD ELECTRO-MECHANICAL LOCK	
	2" JAMB MTD ELECTRO-MECHANICAL LOCK	
	SWING DOOR MANUAL DETENTION LOCK	
	ELECTRO-MECHANICAL SLIDING DOOR DEVICE	
	NON-DETENTION DOOR WITH INTERFACING TO SECURITY CONTROL TOUCHSCREEN	
	CONTROL PANEL FROM WHICH DOOR, ASSOCIATED INTERCOMS & EMERGENCY PUSH BUTTONS ARE CONTROLLED & MONITORED FROM	
	CONTROL PANEL FROM WHICH DOOR IS ONLY MONITORED FROM	
	LOCK TYPE	

**KEYNOTES**  
 APPLIES TO DRAWINGS SE2.1 - SE2.3  
 REPRESENTED BY [A]

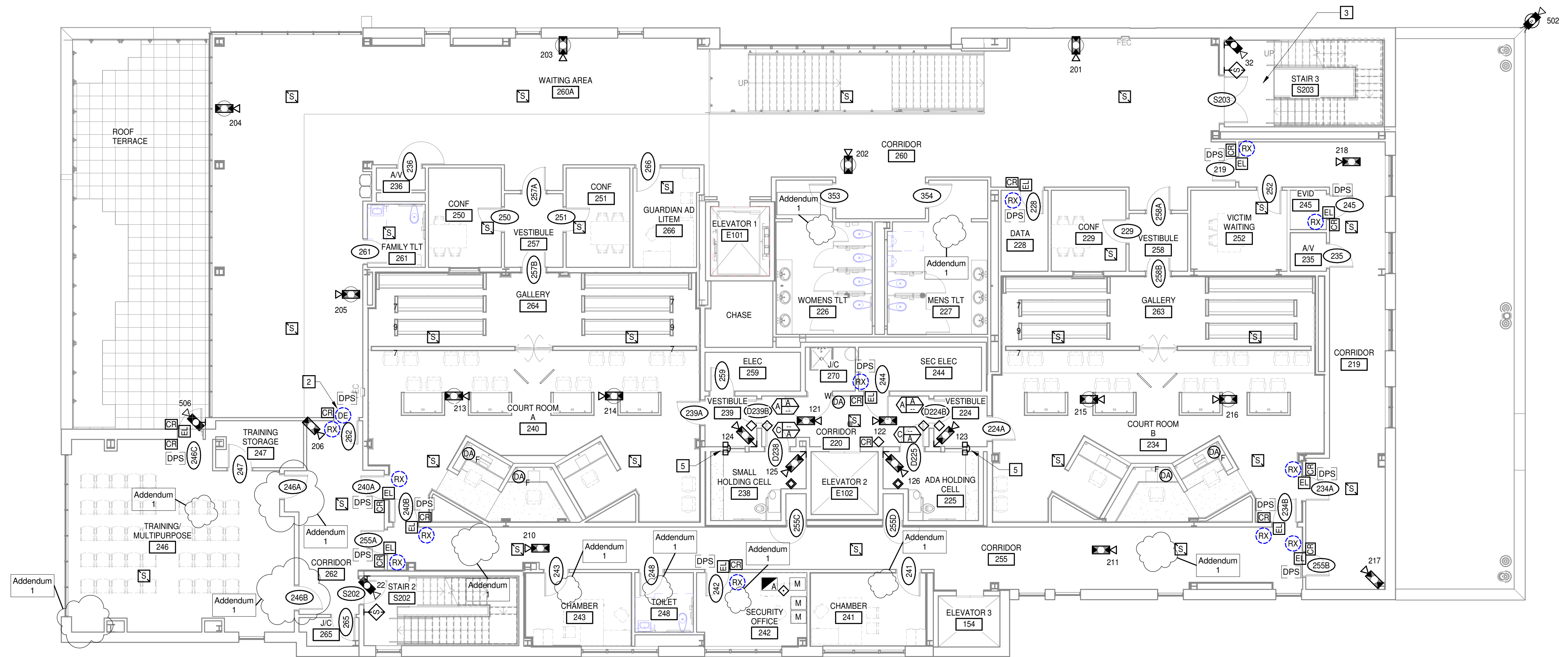
- LOBBY ENTRANCE TO BE OPEN DURING BUSINESS HOURS VIA THE ACCESS CONTROL SYSTEM. OWNER SHALL BE PROVIDED MEANS TO OVERRIDE DOOR SCHEDULE AND LOCK DOWN DOORS IN EVENT OF EMERGENCY.
- INTEGRATE ACCESS CONTROL WITH DELAYED EGRESS DEVICE TO SHUNT ALARM FOR EXIT AND RESET IT IF ACTIVATED.
- PROVIDE DOOR POSITION SENSOR TO MONITOR DOOR TO ROOF ACCESS.
- LOCAL ALARM ON PANIC HARDWARE AND DOOR SHALL ALARM LOCALLY AND AT DETENTION TOUCH SCREEN EVERY TIME IT IS OPENED.
- PROVIDE CONDUIT FOR FRAME MOUNTED TALK THRU UNIT FOR LOW VOLTAGE POWER FROM SECURITY ELECTRONICS EQUIPMENT ROOM. NOTE TTU BASIS OF DESIGN: HAVEN SC-600.

**GENERAL NOTES**

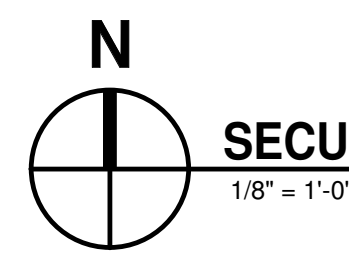
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
- THE OWNER WILL AWARD A SEPARATE CONTRACT OR CONTRACTS TO PROVIDE THE SECURITY CONTROL SYSTEM, INCLUDING, BUT NOT LIMITED TO, FIELD DEVICES, HARDWARE, PROGRAMMING, WIRE AND CABLING FOR ACCESS CONTROL, VIDEO SURVEILLANCE, DURESS, ETC. AS INDICATED ON THE DRAWINGS. PROVIDE EMPTY CONDUIT SYSTEM WITH BACK BOXES AND PULL STRING UNDER THIS CONTRACT. COORDINATE CONDUIT INSTALLATION AND REQUIRED BACK BOXES WITH OWNER'S DESIGNATED PERSONNEL AND INSTALLERS. DEVICE LOCATIONS INDICATED ON THE SECURITY ELECTRONICS (SE) DRAWINGS ARE PROVIDED FOR REFERENCE, BUT DEVICES ARE NIC, UNLESS NOTED OTHERWISE.
- ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM. DEVICES IN THE DETENTION AREAS SHALL BE RUN COMPLETELY IN CONCEALED CONDUIT. FOR DEVICES IN NON-DETENTION AREAS, PROVIDE CONDUIT TO STUB ABOVE CEILING AND TO ENTER THE EQUIPMENT ROOM. BUT WIRE AND CABLING MAY BE RUN IN CABLE TRAY BETWEEN THOSE LOCATIONS.
- COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON NEEDS IN THE FIELD AND ACTUAL CAMERA MODELS BEING USED.
- DOUBLE DOORS INDICATED FOR ELECTRONIC CONTROL SHALL HAVE AN ELECTRIC LOCK; ELECTRIFIED EXIT DEVICE, DOOR POSITION SWITCH, AND INTEGRAL REQUEST-TO-EXIT FUNCTION FOR EACH DOOR IN THE OPENING.

**SECURITY SYSTEMS LEGEND**  
 (ALL SYMBOLS NOT NECESSARILY USED)

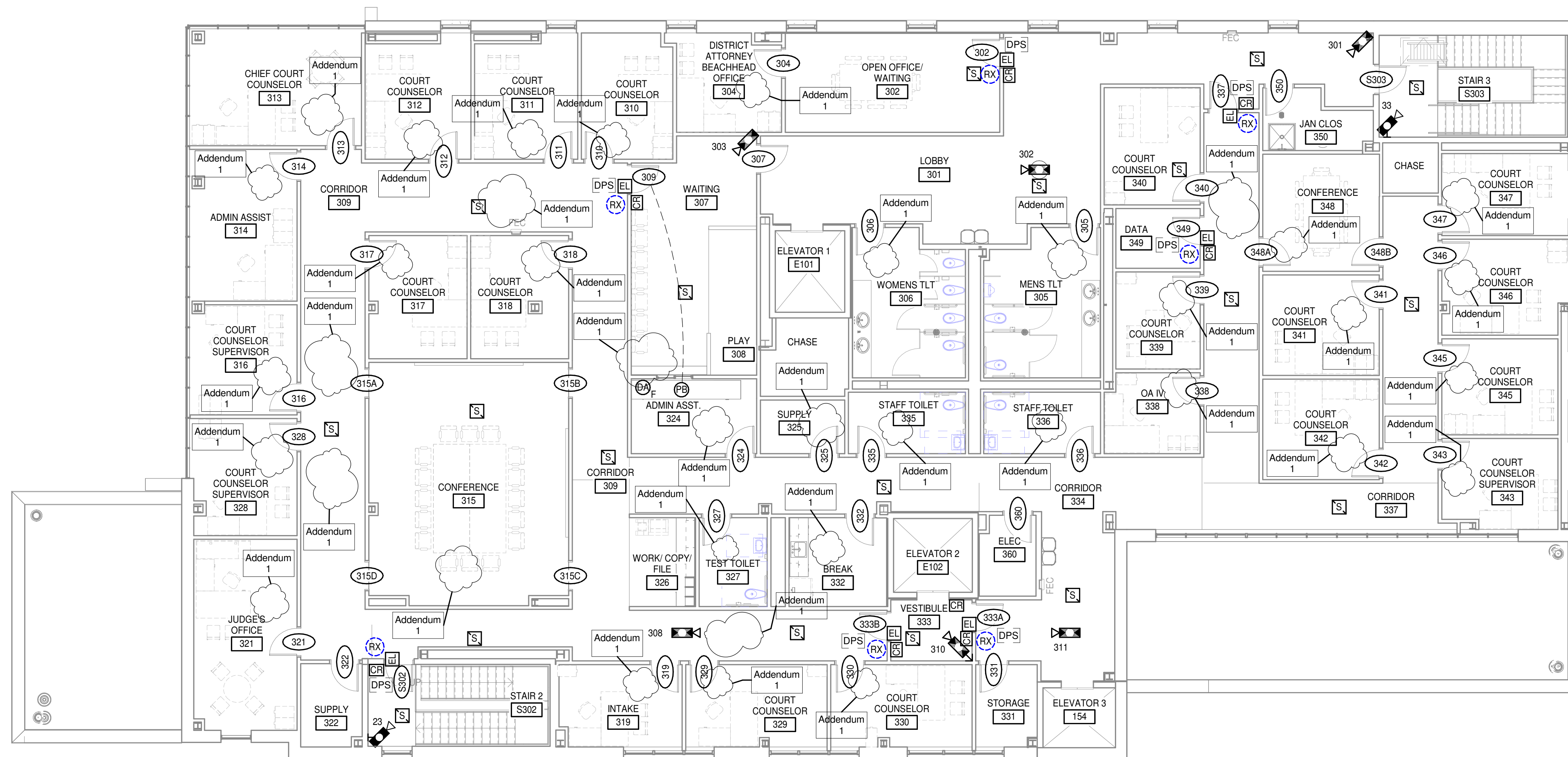
	PROGRAMMABLE LOGIC CONTROLLER CABINET AND/OR RELAY CABINET
	SECURITY EQUIPMENT RACK
	UNINTERRUPTIBLE POWER SUPPLY
	METAL DETECTOR
	PROXIMITY CARD READER
	CARD READER AND KEYPAD
	GLASS BREAK SENSOR
	MOTION DETECTOR
	DURESS ALARM - WALL MTD (48" AFF)
	DURESS ALARM - FURNITURE MOUNTED- COORDINATE WITH FURNITURE PROVIDER
	MASTER INTERCOM
	INTERCOM WALL STATION (48" AFF TO BUTTON)
	INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18" AFF)
	PAGING SPEAKER
	CALL BUTTON
	TALK THRU COMMUNICATOR
	TALK THRU UNIT
	VIDEO MONITOR
	CCTV CAMERA - FIXED
	CCTV CAMERA - PTZ
	CCTV CAMERA - MULTI-LENS (360°/180°)
	DOOR CONTROL / MONITORING REFER TO 'DOOR CONTROL / MONITORING LEGEND'
	DOOR INTERLOCK
	DOOR RELEASE PUSHBUTTON
	GRAPHICAL USER INTERFACE: A = MASTER CONTROL B = DETENTION CONTROL
<b>REFER TO SPEC SECTION 08 71 00</b>	
	DOOR POSITION SWITCH
	ELECTRIC LOCK DEVICE
	REQUEST TO EXIT DEVICE
	DELAYED EGRESS DEVICE



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SECURITY ELECTRONICS - THIRD FLOOR



DOOR CONTROL / MONITORING LEGEND (NOT ALL SYMBOLS NECESSARILY USED)		

- KEYNOTES**  
APPLIES TO DRAWINGS SE2.1 - SE2.3  
REPRESENTED BY [A]
- LOBBY ENTRANCE TO BE OPEN DURING BUSINESS HOURS VIA THE ACCESS CONTROL SYSTEM. OWNER SHALL BE PROVIDED MEANS TO OVERRIDE DOOR SCHEDULE AND LOCK DOWN DOORS IN EVENT OF EMERGENCY.
  - INTEGRATE ACCESS CONTROL WITH DELAYED EGRESS DEVICE TO SHUNT ALARM FOR EXIT AND RESET IT IF ACTIVATED.
  - PROVIDE DOOR POSITION SENSOR TO MONITOR DOOR TO ROOF ACCESS.
  - LOCAL ALARM ON PANIC HARDWARE AND DOOR SHALL ALARM LOCALLY AND AT DETENTION TOUCH SCREEN EVERY TIME IT IS OPENED.
  - PROVIDE CONDUIT FOR FRAME MOUNTED TALK THRU UNIT FOR LOW VOLTAGE POWER FROM SECURITY ELECTRONICS EQUIPMENT ROOM. NOTE TTU BASIS OF DESIGN: HAVEN SC-600.

- GENERAL NOTES**
- THE CONTRACT DOCUMENTS ARE COMPLEMENTARY AND WHAT IS REQUIRED BY ONE SHALL BE AS BINDING AS IF REQUIRED BY ALL. IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE BETTER QUALITY, IN CASE OF A CONFLICT, DISAGREEMENT, OR AMBIGUITY, PROVIDE THE GREATER QUANTITY OF WORK.
  - THE OWNER WILL AWARD A SEPARATE CONTRACT OR CONTRACTS TO PROVIDE THE SECURITY CONTROL SYSTEM, INCLUDING, BUT NOT LIMITED TO, FIELD DEVICES, HARDWARE, PROGRAMMING, WIRE AND CABLING FOR ACCESS CONTROL, VIDEO SURVEILLANCE, DURESS, ETC. AS INDICATED ON THE DRAWINGS. PROVIDE EMPTY CONDUIT SYSTEM WITH BACK BOXES AND PULL STRING UNDER THIS CONTRACT. COORDINATE CONDUIT INSTALLATION AND REQUIRED BACK BOXES WITH OWNERS DESIGNATED PERSONNEL AND INSTALLERS. DEVICE LOCATIONS INDICATED ON THE SECURITY ELECTRONICS (SE) DRAWINGS ARE PROVIDED FOR REFERENCE, BUT DEVICES ARE NOT, UNLESS NOTED OTHERWISE.
  - ALL SECURITY DEVICES SHALL HOMERUN TO SECURITY ELECTRONICS HEAD END ROOM. DEVICES IN THE DETENTION AREAS SHALL BE RUN COMPLETELY IN CONCEALED CONDUIT. FOR DEVICES IN NON-DETENTION AREAS, PROVIDE CONDUIT TO STUB ABOVE GELING AND TO ENTER THE EQUIPMENT ROOM, BUT WIRE AND CABLING MAY BE RUN IN CABLE TRAY BETWEEN THOSE LOCATIONS.
  - COORDINATE FINAL CAMERA HEIGHT AND LOCATION BASED ON NEEDS IN THE FIELD AND ACTUAL CAMERA MODELS BEING USED.
  - DOUBLE DOORS INDICATED FOR ELECTRONIC CONTROL SHALL HAVE AN ELECTRIC LOCK/ ELECTRIFIED EXIT DEVICE, DOOR POSITION SWITCH, AND INTEGRAL REQUEST-TO-EXIT FUNCTION FOR EACH DOOR IN THE OPENING

**SECURITY SYSTEMS LEGEND**  
(ALL SYMBOLS NOT NECESSARILY USED)

	PROGRAMMABLE LOGIC CONTROLLER CABINET AND/OR RELAY CABINET
	SECURITY EQUIPMENT RACK
	UNINTERRUPTIBLE POWER SUPPLY
	METAL DETECTOR
	PROXIMITY CARD READER
	CARD READER AND KEYPAD
	GLASS BREAK SENSOR
	MOTION DETECTOR
	DURESS ALARM - WALL MTD (48\"/>
	DURESS ALARM - FURNITURE MOUNTED - COORDINATE WITH FURNITURE PROVIDER
	MASTER INTERCOM
	INTERCOM WALL STATION (48\"/>
	INMATE EMERGENCY INTERCOM TO MAIN CONTROL (DOOR FRAME MOUNT 18\"/>
	PAGING SPEAKER
	CALL BUTTON
	TALK THRU COMMUNICATOR
	TALK THRU UNIT
	VIDEO MONITOR
	CCTV CAMERA - FIXED
	CCTV CAMERA - PTZ
	CCTV CAMERA - MULTI-LENS (360\"/>
	DOOR CONTROL / MONITORING REFER TO \"DOOR CONTROL / MONITORING LEGEND\"
	DOOR INTERLOCK
	DOOR RELEASE PUSHBUTTON
	GRAPHICAL USER INTERFACE: A - MASTER CONTROL B - DETENTION CONTROL

**REFER TO SPEC SECTION 08 71 00**

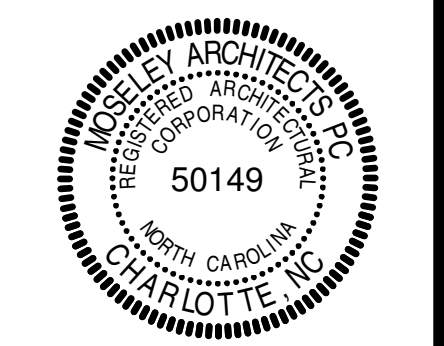
	DOOR POSITION SWITCH
	ELECTRIC LOCK DEVICE
	REQUEST TO EXIT DEVICE
	DELAYED EGRESS DEVICE

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SECURITY ELECTRONICS THIRD FLOOR PLAN

SE2.3

**MOSELEY ARCHITECTS**  
11430 NORTH COMMUNITY HOUSE ROAD, GIBSON BUILDING, SUITE 225, CHARLOTTE, NC 28277  
PHONE (704) 540-3765 FAX (704) 540-3754  
MOSELEYARCHITECTS.COM

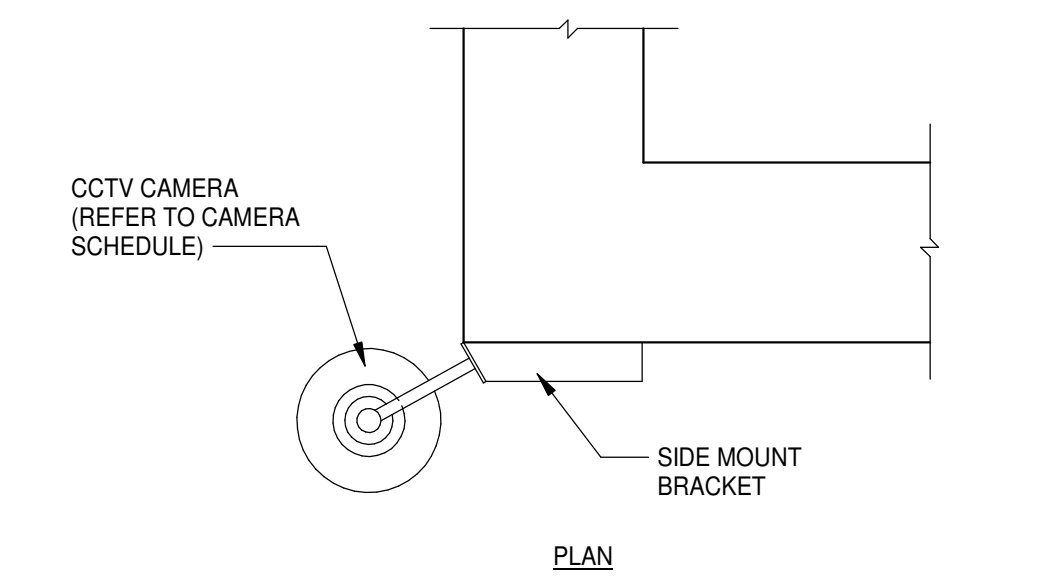


**NEW DJJ FACILITY**  
NEW HANOVER COUNTY  
WILMINGTON, NC

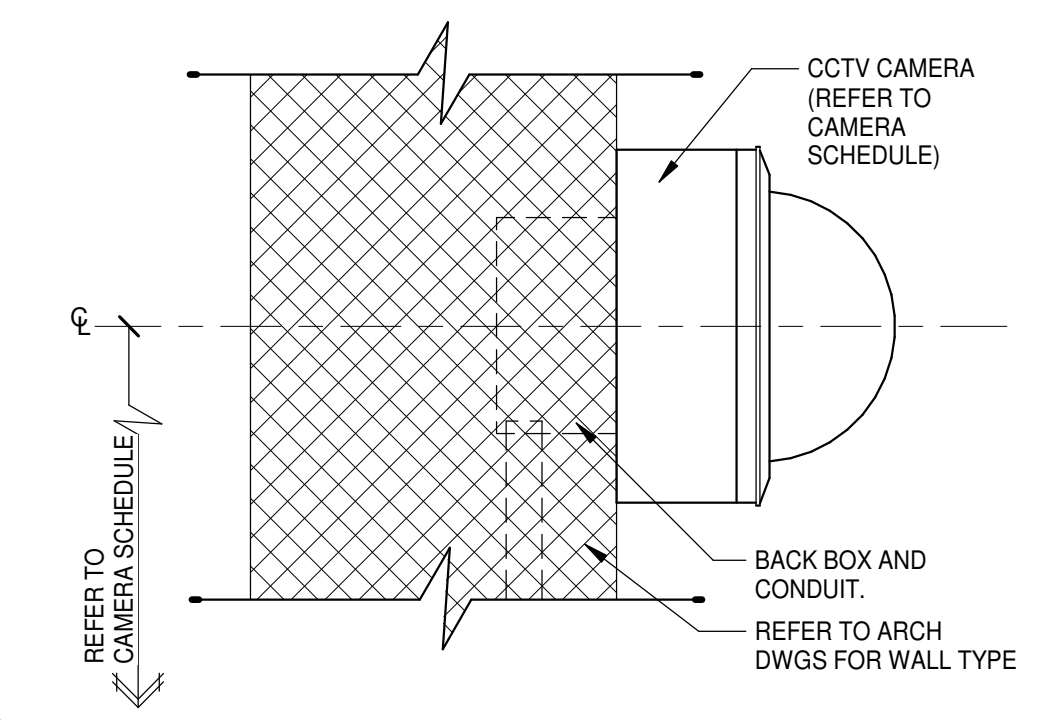
PROJECT NO.	DATE
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DATE	DESCRIPTION
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SECURITY - CAMERA SCHEDULE						
CAMERA NO.	TYPE	TYPE	HEIGHT	DETAIL	NOTES	
01	FIXED	RECESSED	CEILING	1/SE3.1		
02	180°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS	
04	180°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS	
05	360°	SURFACE	CEILING	2/SE3.1		
06	FIXED	RECESSED	CEILING	1/SE3.1		
07	FIXED	CORNER	CEILING	3/SE3.1		
08	360°	RECESSED	CEILING	1/SE3.1	FISHEYE LENS	
11	FIXED	RECESSED	CEILING	1/SE3.1		
13	FIXED	RECESSED	CEILING	1/SE3.1		
15	FIXED	RECESSED	CEILING	1/SE3.1		
16	FIXED	RECESSED	CEILING	1/SE3.1		
21	FIXED	SURFACE	8' AFF	4/SE3.1		
22	FIXED	SURFACE	8' AFF	4/SE3.1		
23	FIXED	SURFACE	8' AFF	4/SE3.1		
31	FIXED	SURFACE	8' AFF	4/SE3.1		
32	FIXED	SURFACE	8' AFF	4/SE3.1		
33	FIXED	SURFACE	8' AFF	4/SE3.1		
101	FIXED	SURFACE	8' AFF	4/SE3.1		
102	FIXED	SURFACE	8' AFF	4/SE3.1		
103	FIXED	CORNER	CEILING	3/SE3.1		
104	FIXED	SURFACE	CEILING	2/SE3.1		
105	FIXED	SURFACE	CEILING	2/SE3.1		
106	FIXED	CORNER	CEILING	3/SE3.1		
107	FIXED	CORNER	CEILING	3/SE3.1		
108	FIXED	CORNER	CEILING	3/SE3.1		
109	FIXED	CORNER	CEILING	3/SE3.1		
110	FIXED	CORNER	CEILING	3/SE3.1		
111	FIXED	CORNER	CEILING	3/SE3.1		
112	FIXED	CORNER	CEILING	3/SE3.1		
113	FIXED	CORNER	CEILING	3/SE3.1		
114	FIXED	SURFACE	CEILING	2/SE3.1		
115	FIXED	SURFACE	CEILING	2/SE3.1		
121	FIXED	SURFACE	CEILING	2/SE3.1		
122	FIXED	SURFACE	CEILING	2/SE3.1		
123	FIXED	CORNER	CEILING	3/SE3.1		
124	FIXED	CORNER	CEILING	3/SE3.1		
125	FIXED	CORNER	CEILING	3/SE3.1		
126	FIXED	CORNER	CEILING	3/SE3.1		
201	360°	SURFACE	CEILING	2/SE3.1		
202	360°	SURFACE	CEILING	2/SE3.1		
203	360°	SURFACE	CEILING	2/SE3.1		
204	360°	SURFACE	CEILING	2/SE3.1		
205	360°	SURFACE	CEILING	2/SE3.1		
206	FIXED	RECESSED	CEILING	1/SE3.1		
210	FIXED	RECESSED	CEILING	1/SE3.1		
211	FIXED	RECESSED	CEILING	1/SE3.1		
213	360°	SURFACE	CEILING	2/SE3.1		
214	360°	SURFACE	CEILING	2/SE3.1		
215	360°	SURFACE	CEILING	2/SE3.1		
216	360°	SURFACE	CEILING	2/SE3.1		
217	FIXED	RECESSED	CEILING	1/SE3.1		
218	FIXED	RECESSED	CEILING	1/SE3.1		
301	FIXED	RECESSED	CEILING	1/SE3.1		
302	360°	SURFACE	CEILING	2/SE3.1		
303	FIXED	RECESSED	CEILING	1/SE3.1		
308	FIXED	RECESSED	CEILING	1/SE3.1		
310	FIXED	RECESSED	CEILING	1/SE3.1		
311	FIXED	RECESSED	CEILING	1/SE3.1		
501	360°	SURFACE	CEILING	2/SE3.1		
502	360°	SURFACE	12' AFF	5/SE3.1		
503	360°	SURFACE	12' AFF	5/SE3.1		
504	360°	SURFACE	12' AFF	5/SE3.1		
505	360°	SURFACE	CEILING	2/SE3.1		
506	FIXED	SURFACE	8' AFF	4/SE3.1		

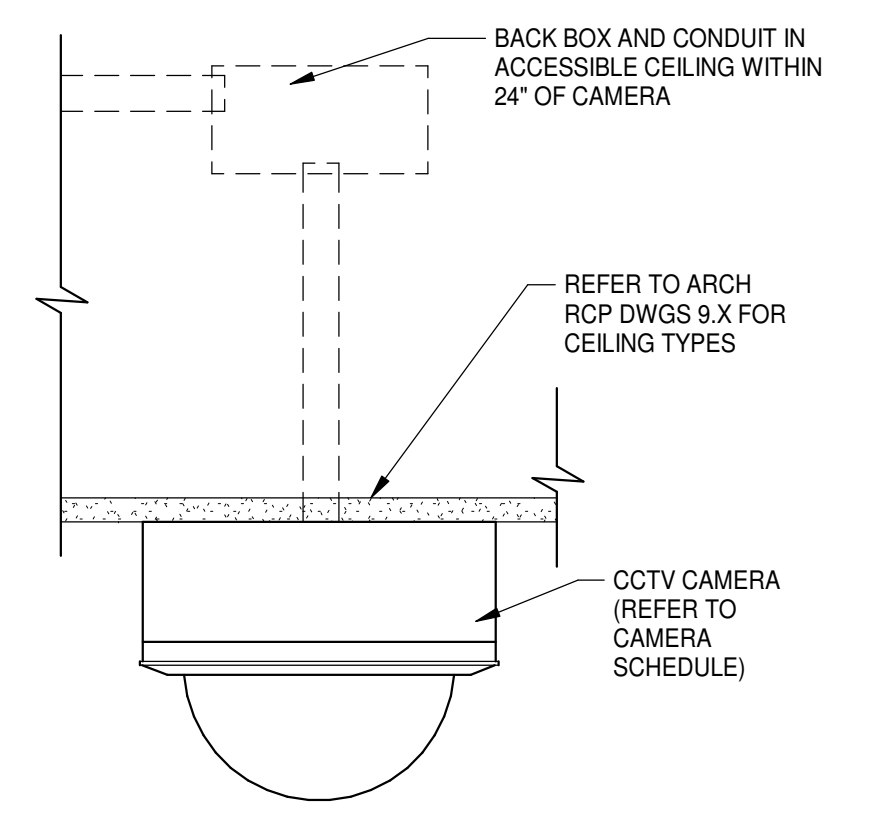
REMOVED CAMERAS:  
 03, 09, 10, 12, 14, 127,  
 207, 208, 209, 212,  
 304, 305, 306, 307, 309, 312



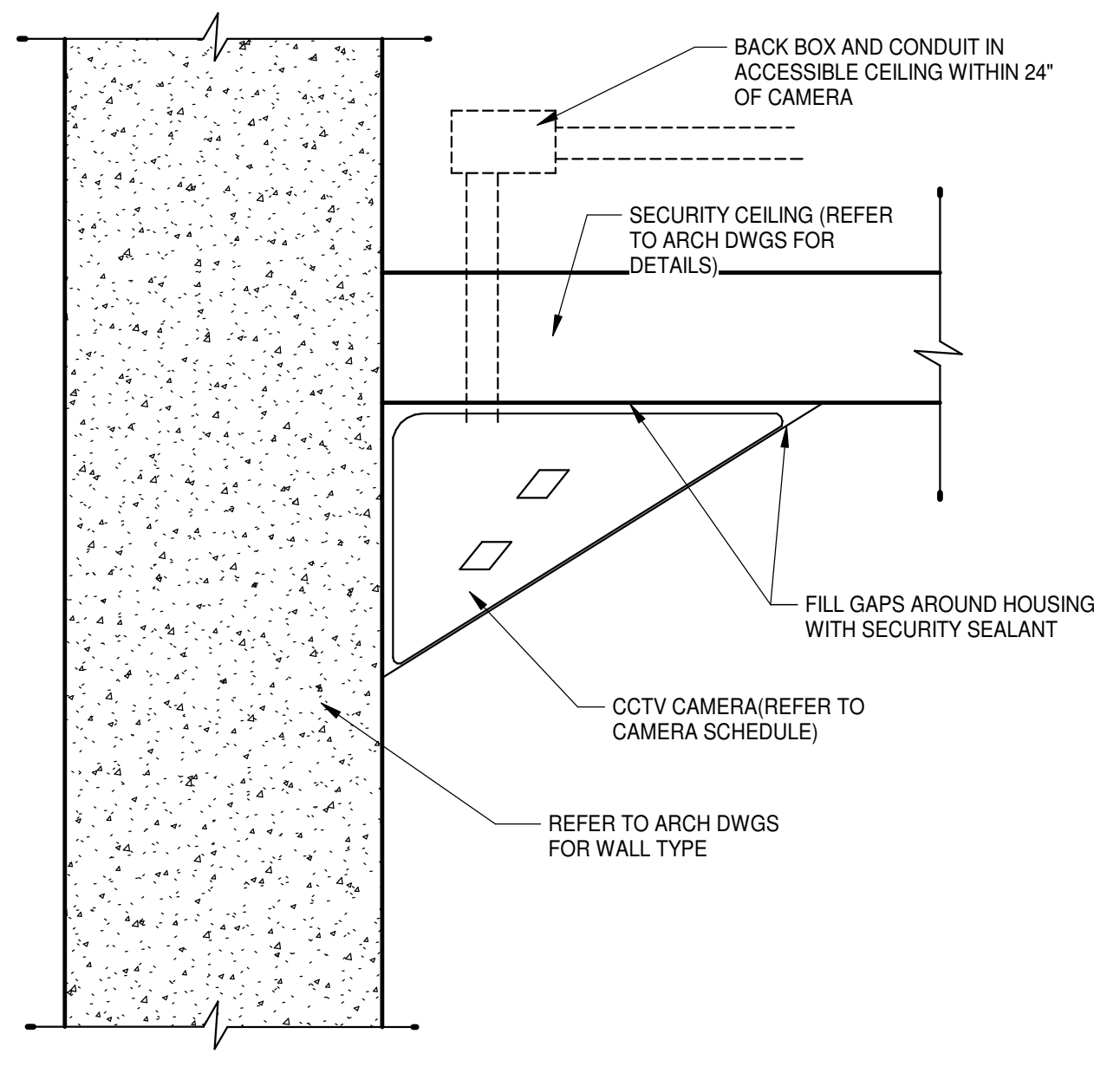
**5 DETAIL - EXT CORNER WALL MOUNTED DOME CAMERA**  
 NO SCALE



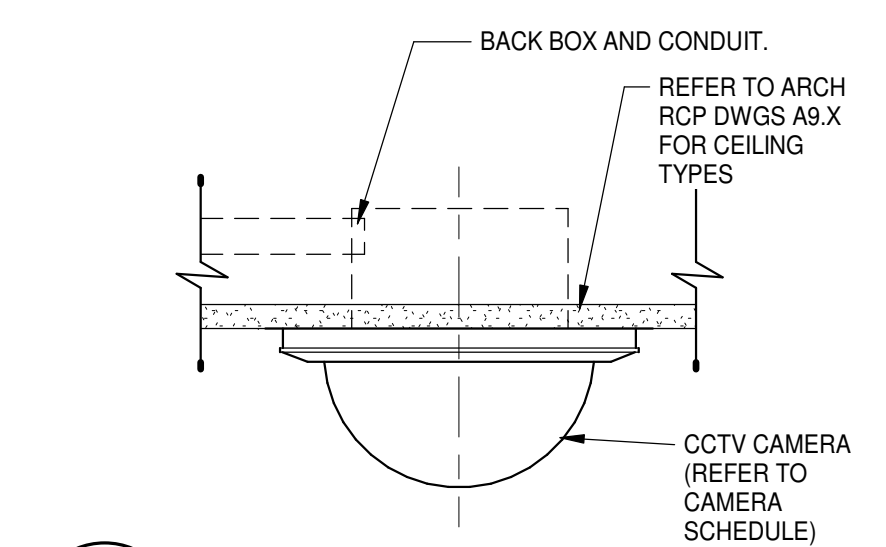
**4 DETAIL - WALL SURFACE MOUNTED CAMERA**  
 NO SCALE



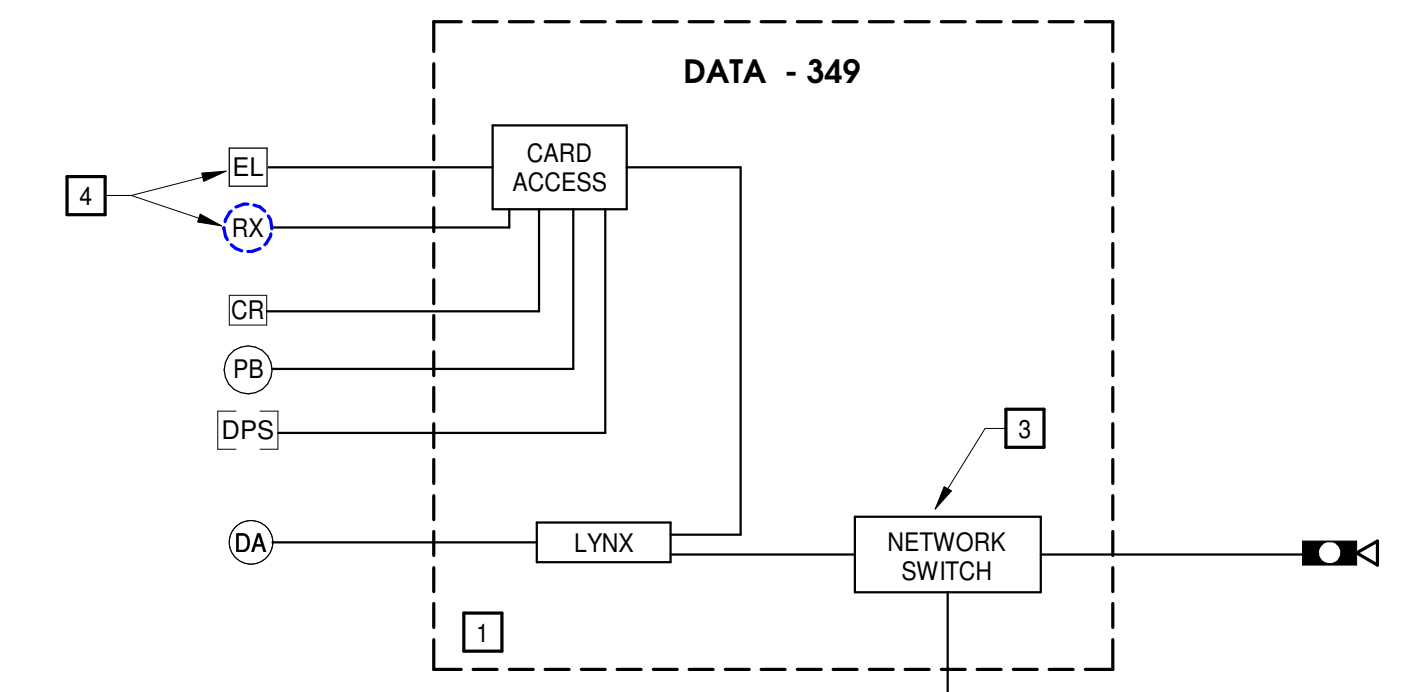
**2 DETAIL - CEILING SURFACE MOUNTED CAMERA**  
 NO SCALE



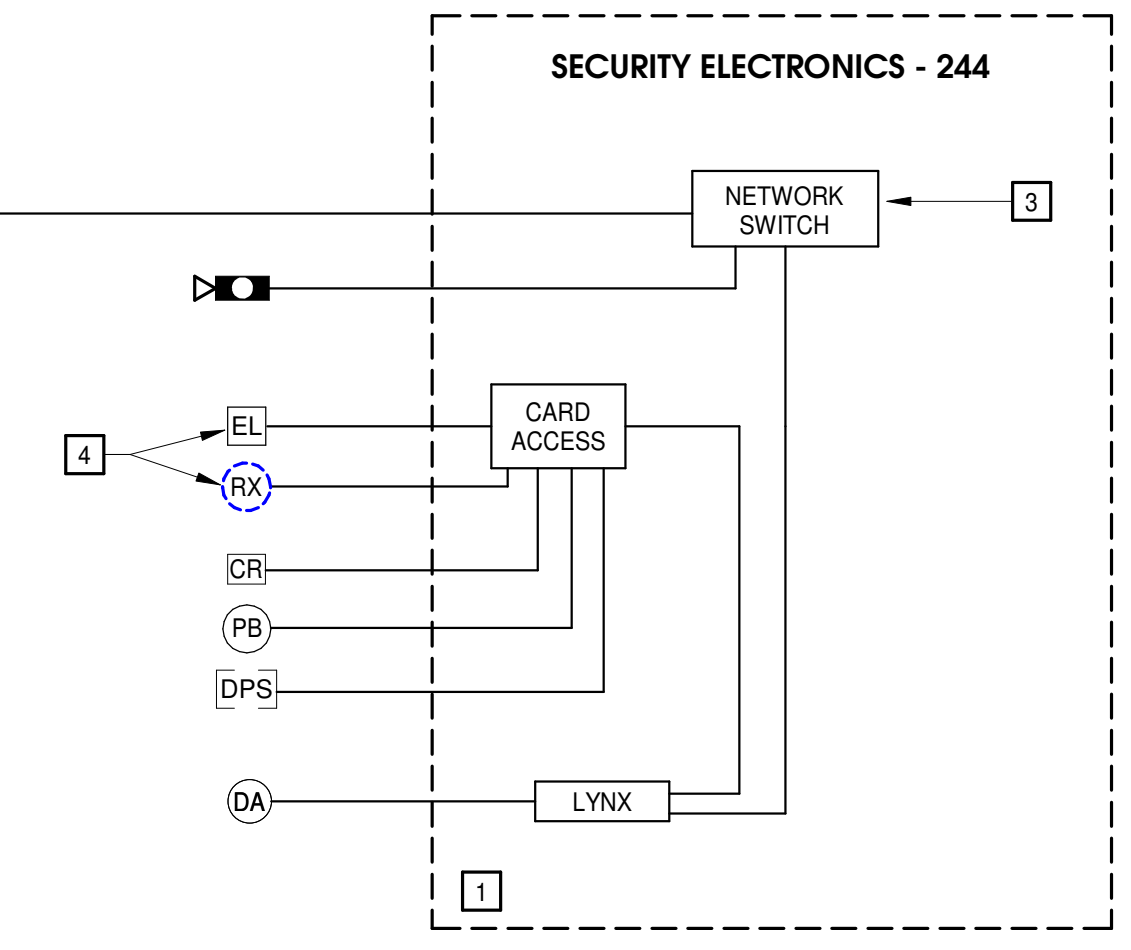
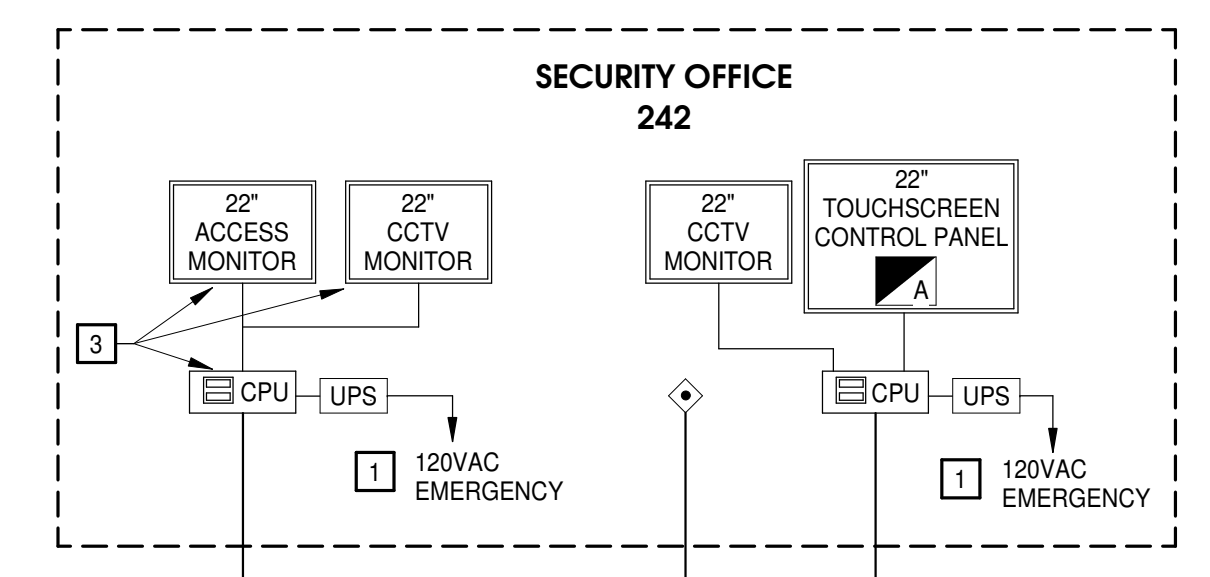
**3 DETAIL - CEILING CORNER MOUNT CAMERA**  
 NO SCALE



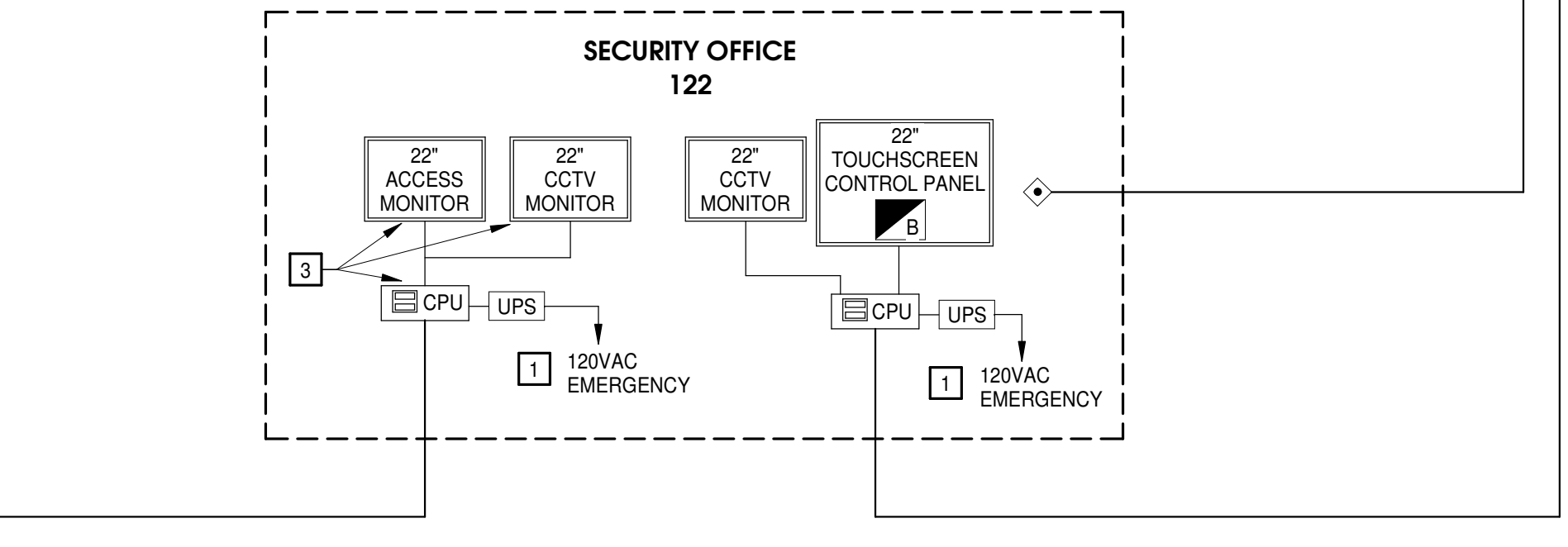
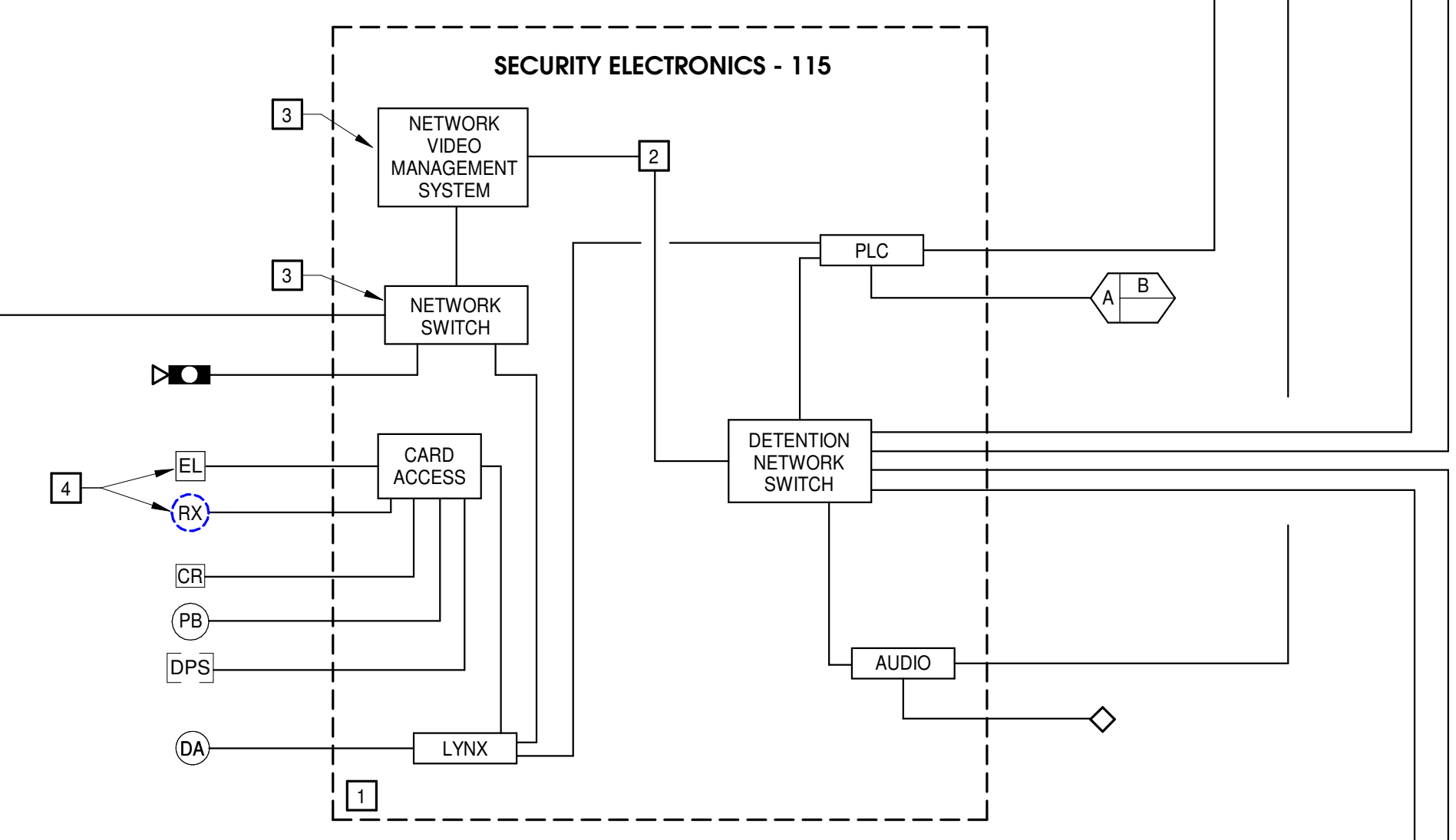
**1 DETAIL - CEILING RECESSED MOUNTED CAMERA**  
 NO SCALE



THIRD FLOOR  
 SECOND FLOOR



SECOND FLOOR  
 FIRST FLOOR



**KEYNOTES**  
 APPLIES TO SINGLE LINE DIAGRAM REPRESENTED BY [1]

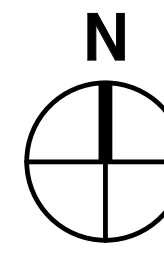
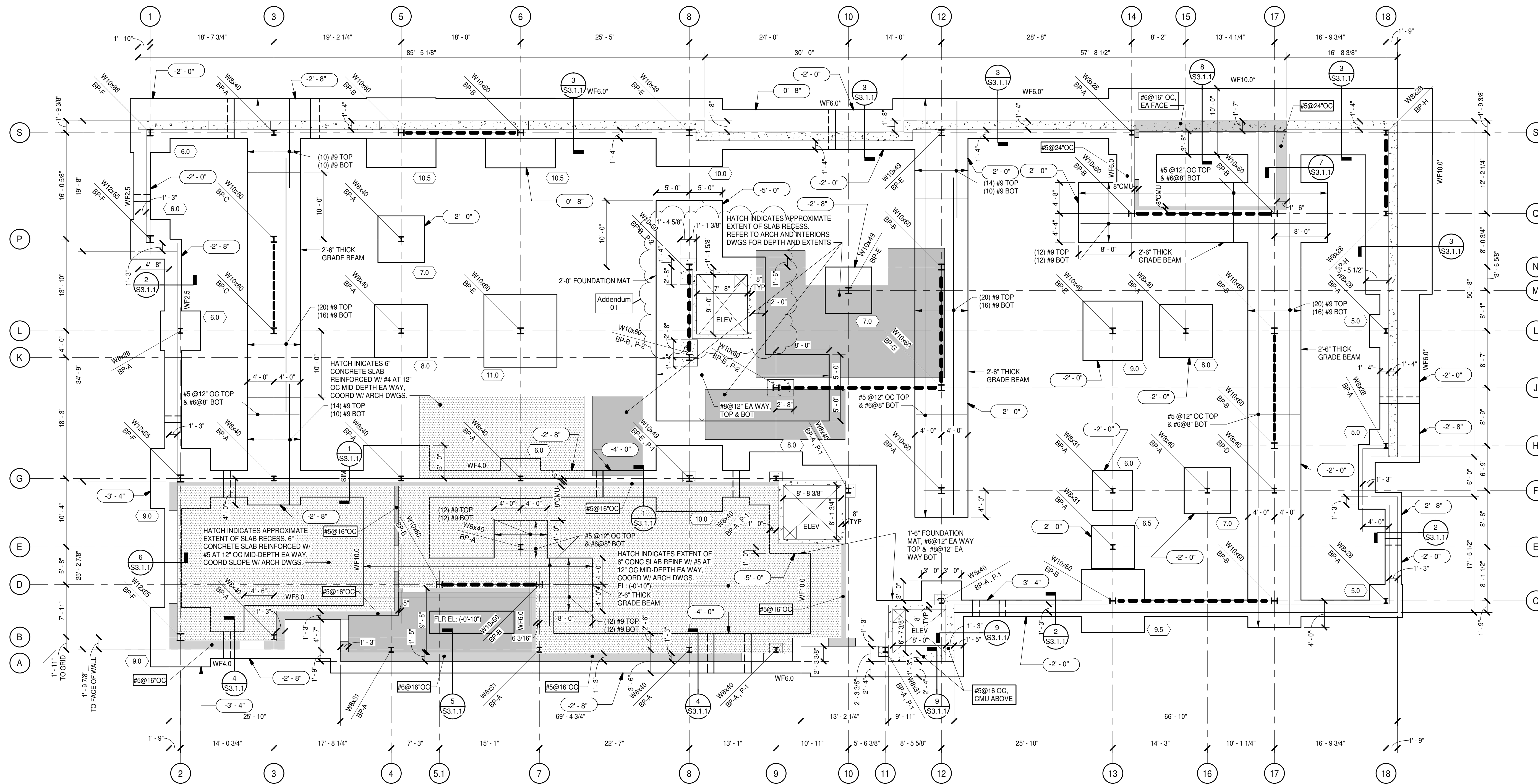
- ALL POWER TO SECURITY HEADEND EQUIPMENT AND ASSOCIATED FIELD COMPONENTS SHALL BE CONNECTED TO EMERGENCY / GENERATOR POWER (THROUGH AN SCSC PROVIDED UPS).
- OWNER SHALL PROVIDE A SECOND NETWORK CARD ON ALL CCTV SERVERS FOR INTEGRATION WITH TOUCH SCREEN SYSTEM FOR CAMERA CALL UP.
- OWNER PROVIDED EQUIPMENT.
- DIVISION 8 PROVIDED EQUIPMENT.

**SINGLE LINE DIAGRAM GENERAL NOTES**

A. SECURITY CONTROL SYSTEM CABLING AND WIRING INDICATED IS DIAGRAMMATIC ONLY. IT IS INTENDED TO SHOW PROPOSED LOCATIONS OF MAJOR COMPONENTS OF THE SECURITY CONTROL SYSTEM AND THEIR INTERCONNECTION.

B. NO CONDUIT SIZES OR QUANTITIES NOR CONDUCTOR TYPES OR QUANTITIES ARE INDICATED. THE SECURITY CONTROL SYSTEM CONTRACTOR'S (SCSC) INDIVIDUAL CONTROL SOLUTION WILL DETERMINE THE EXACT CONDUIT AND CONDUCTOR REQUIREMENTS. REFER TO DRAWINGS SE2.1 THROUGH SE2.3 FOR QUANTITIES AND LOCATIONS OF INDIVIDUAL SECURITY CONTROL SYSTEM EQUIPMENT AND DEVICES. REFER TO DIVISION 28 ELECTRICAL FOR POWER.

SINGLE LINE DIAGRAM



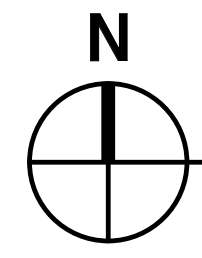
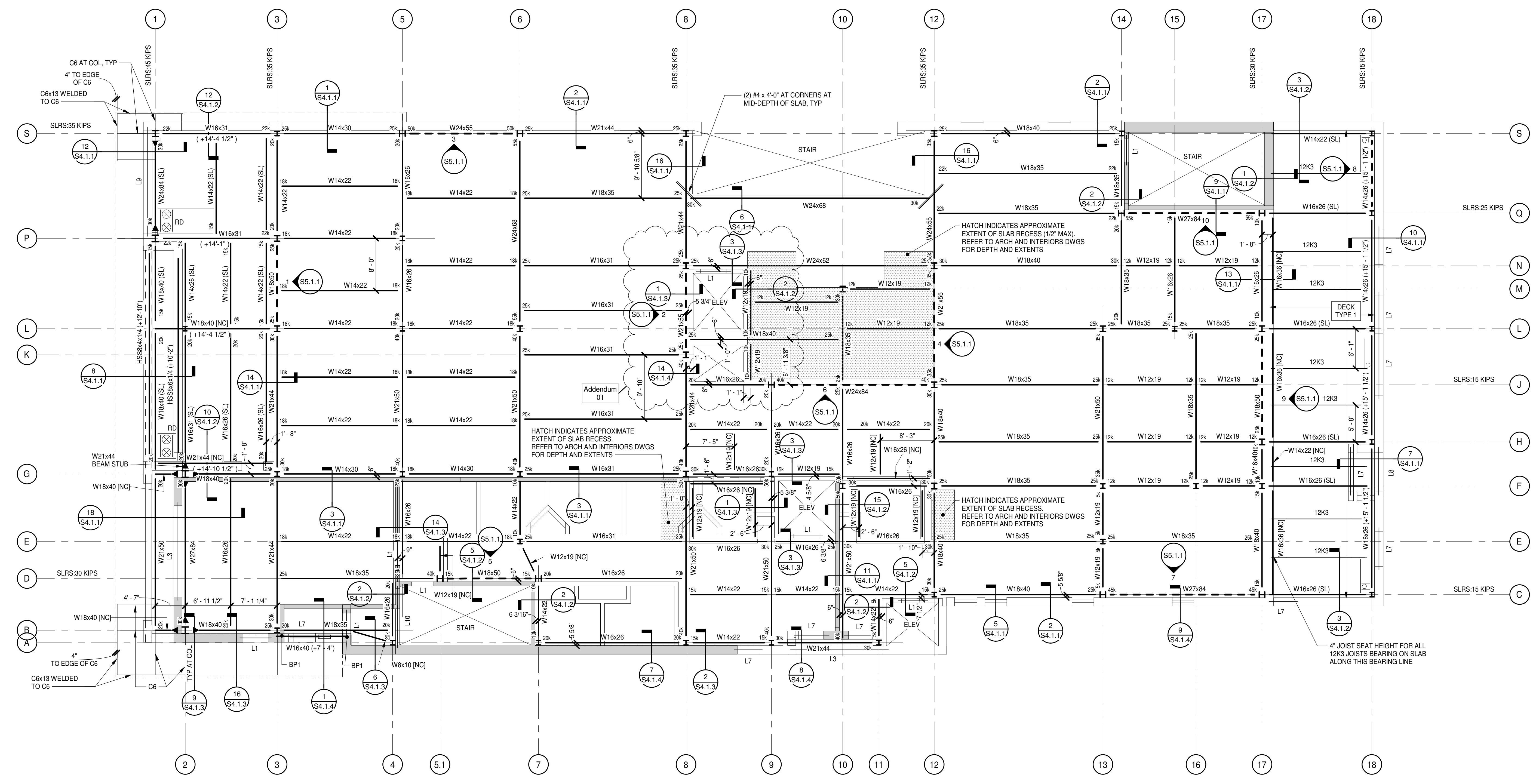
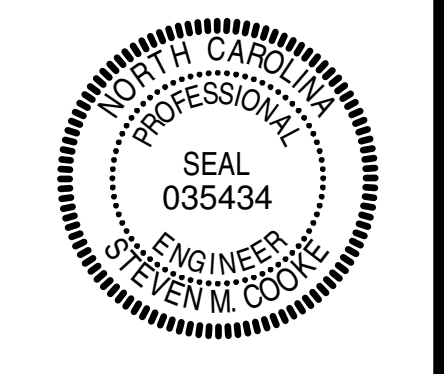
**FOUNDATION PLAN**

1/8" = 1'-0"

FOUNDATION PLAN NOTES:

1. FINISHED FIRST FLOOR ELEVATION = 41.25' - REFERENCE DATUM EL. (+0'-0'). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
2. FLOOR CONSTRUCTION SHALL BE 4" NORMAL WEIGHT CONCRETE SLAB ON GRADE REINFORCED WITH 4x4-W2.9xW2.9 WWF (1" FROM TOP) OVER VAPOR BARRIER OVER 4" POROUS FILL, UNO.
3. TOP OF ALL INTERIOR FOOTINGS SHALL BE (-1'-4"), UNO. TOP OF ALL EXTERIOR FOOTINGS SHALL BE (-2'-0"), UNO.
4. ALL EXTERIOR WALL FOOTINGS SHALL BE WF2.5, UNO.
5. COORDINATE FOOTING STEPS WITH ALL UNDERSLAB UTILITIES. REFER TO FOUNDATION NOTE #4 ON DRAWING S0.0.1.
6. REINFORCE MASONRY WALLS WITH #5 AT 32" OC, UNO.
7. REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
8. REFER TO DRAWINGS S3.0.1 AND S3.0.2 FOR TYPICAL FOUNDATION DETAILS AND SCHEDULES.
9. AT TERRAZZO FLOORING, COORDINATE LOCATION OF SLAB ON GRADE CONTROL JOINTS WITH FLOOR JOINTS INDICATED ON THE ARCHITECTURAL FINISH PATTERN DRAWINGS.
10. EXCAVATION AROUND EXISTING BUILDING FOUNDATIONS IS NOT PERMITTED WITHOUT SHORING CAPABLE OF SUPPORTING THE EXISTING BUILDING FOUNDATIONS LOADS. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ALL SHORING. SHORING SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NORTH CAROLINA.
11. REFER TO PLUMBING DRAWINGS FOR FOUNDATION DRAIN LOCATIONS.
12. WALLS INDICATED AS SHADED ARE SHEAR WALLS AND SHALL BE REINFORCED WITH #5 AT 32" OC, UNO. NO REINFORCING STEEL IN THESE WALLS IS ALLOWED TO BE CUT. LOCATE ALL PIPING AND CONDUIT OUTSIDE OF REINFORCED CELLS, EXCEPT A SINGLE 1" CONDUIT IS ALLOWED AT JAMBS. CONTROL JOINTS ARE NOT PERMITTED IN SHEAR WALLS AT LESS THAN 20'-0" OC.

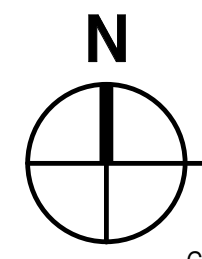
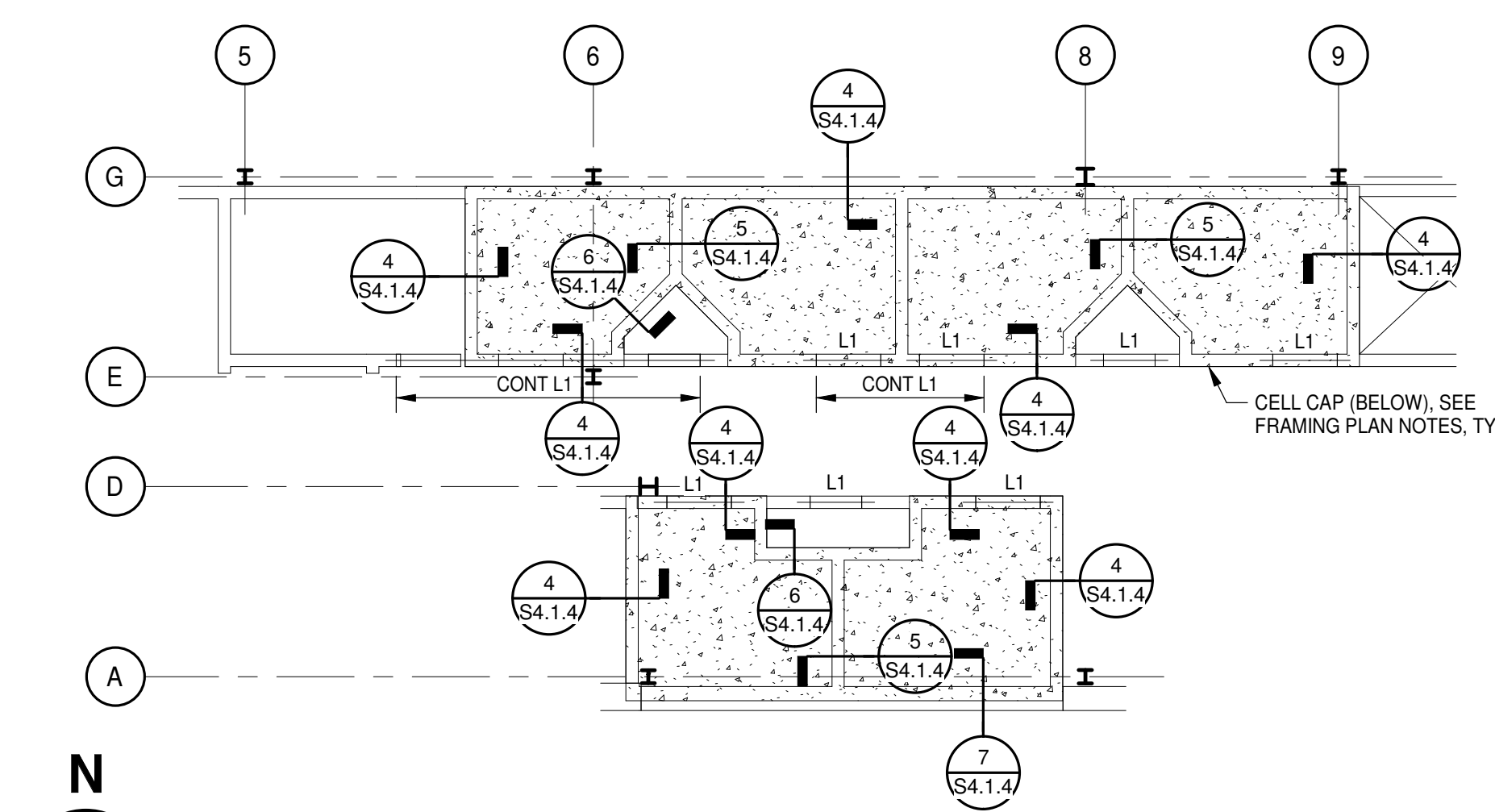
PROJECT NO:	DATE:
571990	05/22/2019
REVISIONS	
DATE	DESCRIPTION
5/5/2019	Addendum 01



**SECOND FLOOR FRAMING PLAN**

- 1/8" = 1'-0"  
 FLOOR FRAMING PLAN NOTES:
- TOP OF SECOND FLOOR SLAB (+15'-4") RELATIVE TO FINISHED FIRST FLOOR.
  - TOP OF STEEL BEAMS SHALL BE (-5 1/2") RELATIVE TO FINISHED SECOND FLOOR, UNO.
  - TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
  - FLOOR CONSTRUCTION SHALL BE 3 1/2" LIGHTWEIGHT CONCRETE SLAB ON 2" COMPOSITE FLOOR DECK (DECK TYPE 2), (5 1/2" TOTAL SLAB THICKNESS). REINFORCE SLAB WITH #6-W2.9/W2.9 WWF AT MID-DEPTH. REINFORCE SLAB WITH #4-W2.9/W2.9 WWF AT MID-DEPTH FOR TERRAZZO FLOOR AREA. REFER TO DRAWING S0.0.4 FOR TERRAZZO PATTERN AREA. REFER TO DRAWING S0.0.1 FOR STEEL DECK SCHEDULE.
  - ALL FLOOR BEAMS SHALL RECEIVE 3/4" DIAMETER x 4" LONG HEADED SHEAR STUDS, UNO. ALL BEAMS NOTED [NC] SHALL BE NON-COMPOSITE (SHEAR STUDS NOT REQUIRED).
  - COMPOSITE BEAMS ARE DESIGNED UNSHORED.
  - ALL BEAMS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
  - REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
  - REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
  - GRIDS MARKED SLRS ARE PART OF THE LATERAL FORCE RESISTING SYSTEM. BEAM TO COLUMN CONNECTIONS AND BEAM TO BEAM CONNECTIONS ALONG THESE GRIDS SHALL BE DESIGNED FOR THE TENSION/COMPRESSION LOAD (INDICATED ON THE GRID) ACTING PARALLEL TO THE BEAMS, IN ADDITION TO ALL OTHER LOADS. BOLTED CONNECTIONS ON THESE GRID LINES SHALL BE DESIGNED AS SLIP CRITICAL. REFER TO S4.0.2 FOR COLLECTOR BEAM CONNECTIONS.
  - COORDINATE AREAS AND DEPTHS OF SLAB RECESS FOR TERRAZZO FLOORING WITH INTERIOR DESIGN DRAWINGS. MAXIMUM RECESS SHALL BE 1/2".

- ROOF FRAMING PLAN NOTES:
- TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
  - STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1), UNO. REFER TO STEEL DECK SCHEDULE ON DRAWING S0.0.1 FOR DECK TYPES INDICATED ON PLAN. REFER TO FRAMING PLAN AND ARCHITECTURAL AND STRUCTURAL SECTIONS FOR EXTENT OF DECK TYPES.
  - ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES, UNO.
  - REFER TO DRAWING S0.0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
  - REFER TO DRAWINGS S4.0.1 AND S4.0.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.



**FIRST FLOOR CELL CAP PLAN**

- 1/8" = 1'-0"  
 CELL CAP FRAMING PLAN NOTES:
- CELL CAP SLAB SHALL BE 8" THICK NORMAL WEIGHT CONCRETE REINFORCED WITH #4 AT 6" OC TOP AND BOT.
  - TOP OF CELL CAP SLAB (+9'-8") RELATIVE TO FINISHED FIRST FLOOR.

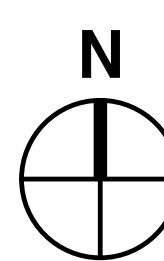
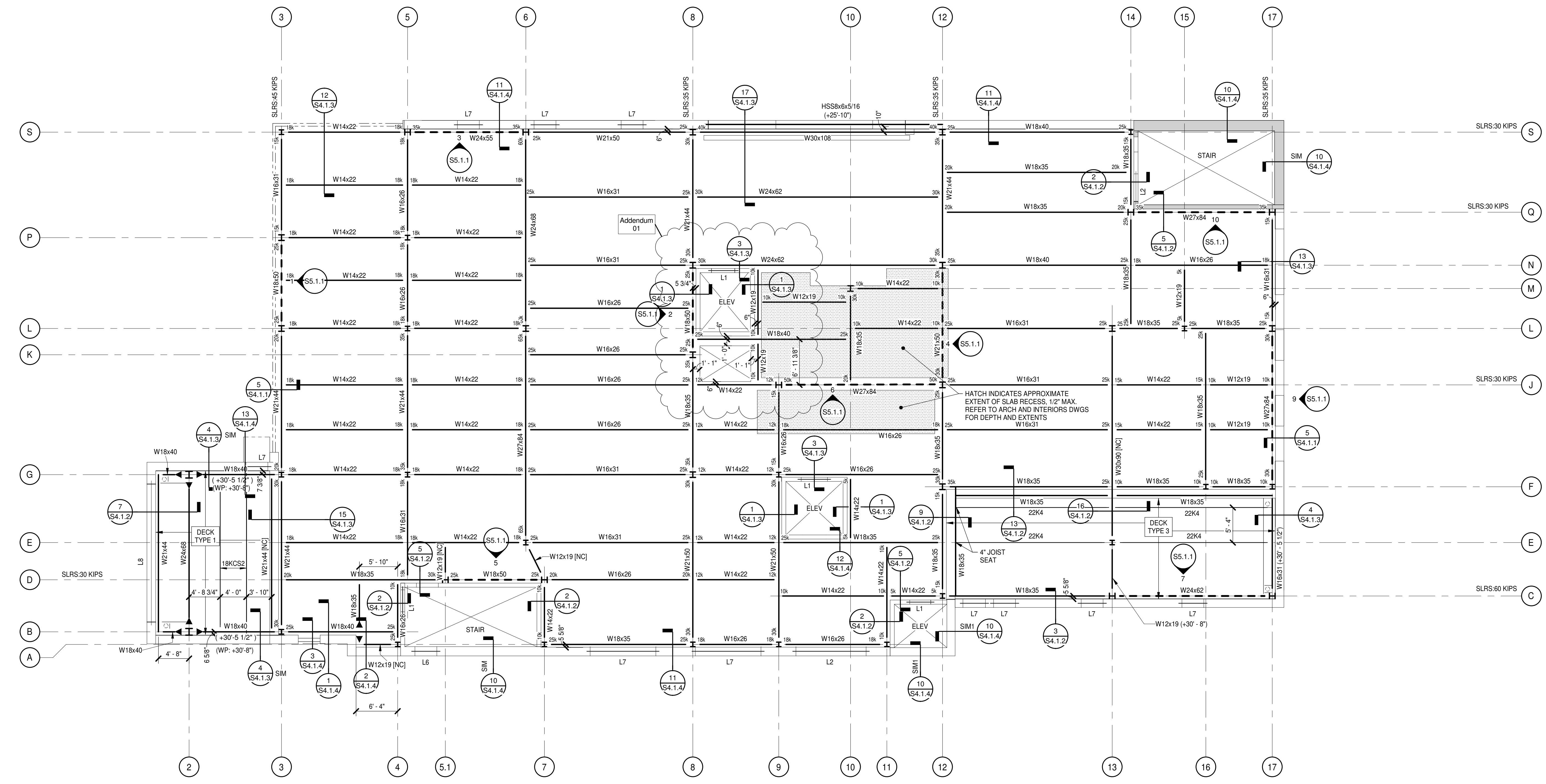
**DIVISION OF JUVENILE JUSTICE**

NEW HANOVER COUNTY  
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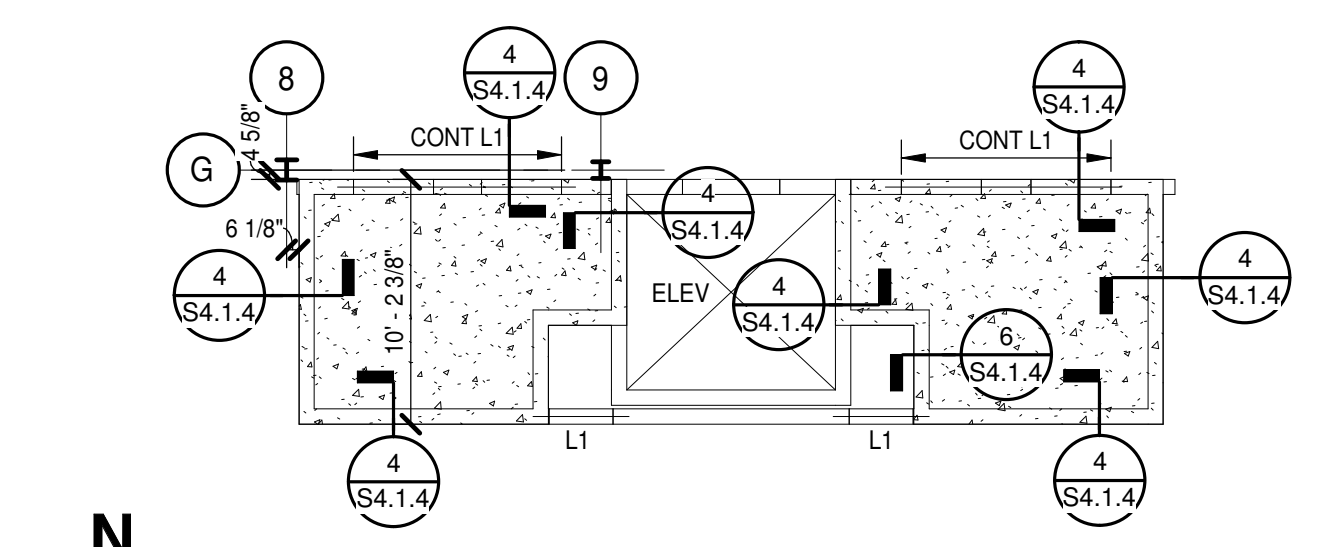
SECOND FLOOR  
 FRAMING PLANS

**S2.1.1**



**THIRD FLOOR FRAMING PLAN**  
1/8" = 1'-0"

- NOTES:
1. REFER TO DRAWING S2.1.1 FOR FLOOR FRAMING PLAN NOTES.
  2. REFER TO DRAWING S4.0.1 FOR TYPICAL MASONRY DETAILS AND LINTEL SCHEDULE.
  3. TOP OF THIRD FLOOR SLAB = (+30'-8") RELATIVE TO FINISHED LOWER FLOOR.
  4. TOP OF STEEL BEAMS = (+5'-1/2"), UNO.
  5. STEEL ROOF DECK SHALL BE DECK TYPE 1, UNO. REFER TO S0.0.1 FOR STEEL DECK SCHEDULE.



**SECOND FLOOR CELL CAP PLAN**  
1/8" = 1'-0"

- CELL CAP FRAMING PLAN NOTES:
1. CELL CAP SLAB SHALL BE 6" THICK NORMAL WEIGHT CONCRETE REINFORCED WITH #4 AT 6" OC EA WAY, TOP AND BOT.
  2. TOP OF CELL CAP SLAB (+24'-6") RELATIVE TO FINISHED FIRST FLOOR.

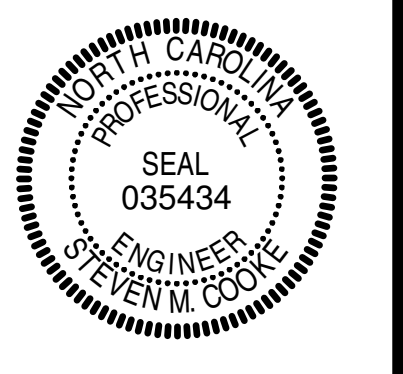
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**THIRD FLOOR FRAMING PLANS**

**S2.2.1**

**DIVISION OF JUVENILE JUSTICE**

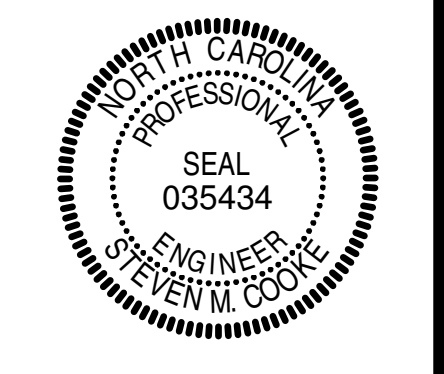
**NEW HANOVER COUNTY  
WILMINGTON, NC**



**MOSELEYARCHITECTS**

11430 NORTH COMMUNITY HOUSE ROAD GIBSON BUILDING SUITE 225 CHARLOTTE, NC 28277  
PHONE (704) 563-3755 FAX (704) 563-3754  
MOSELEYARCHITECTS.COM

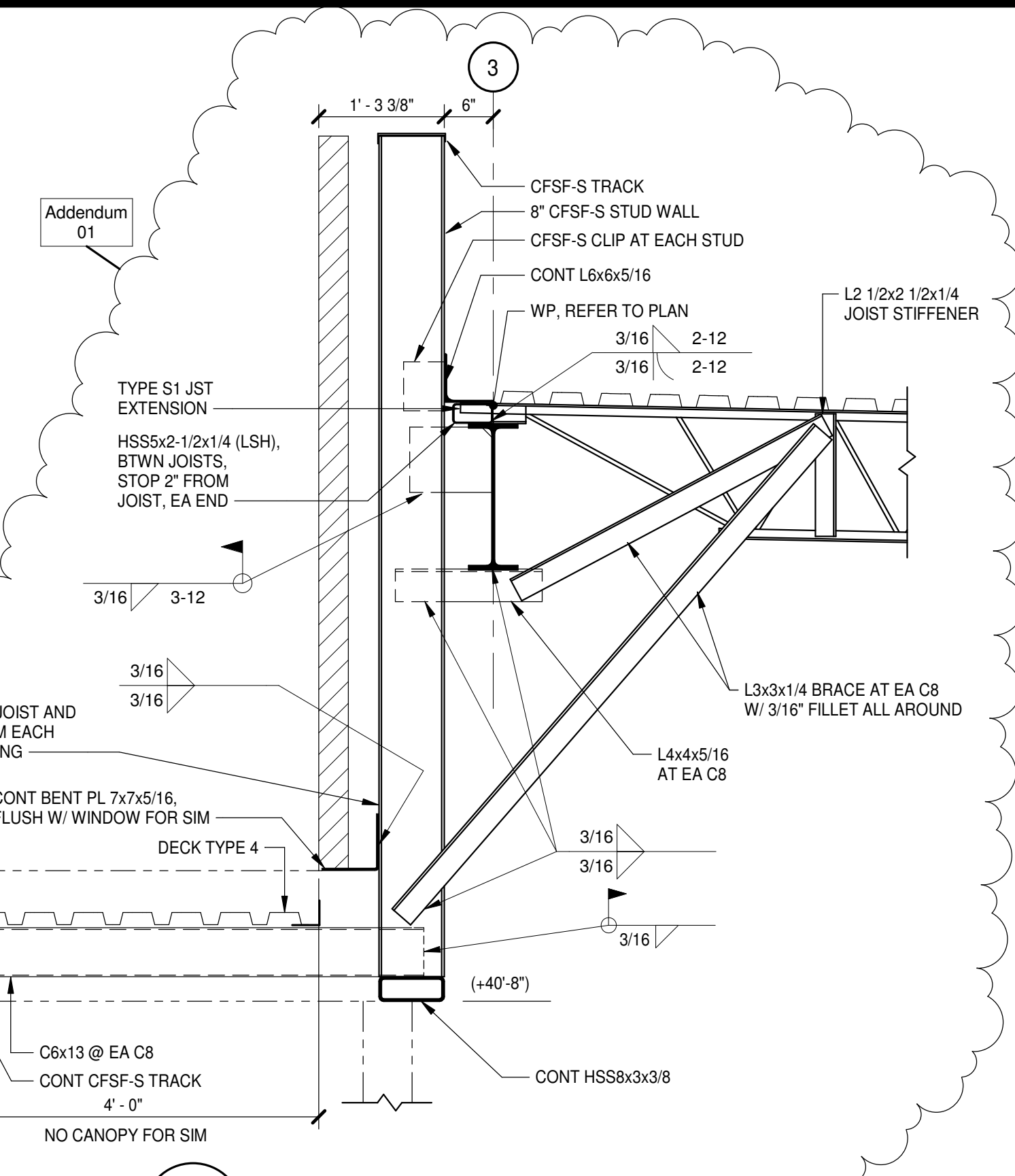




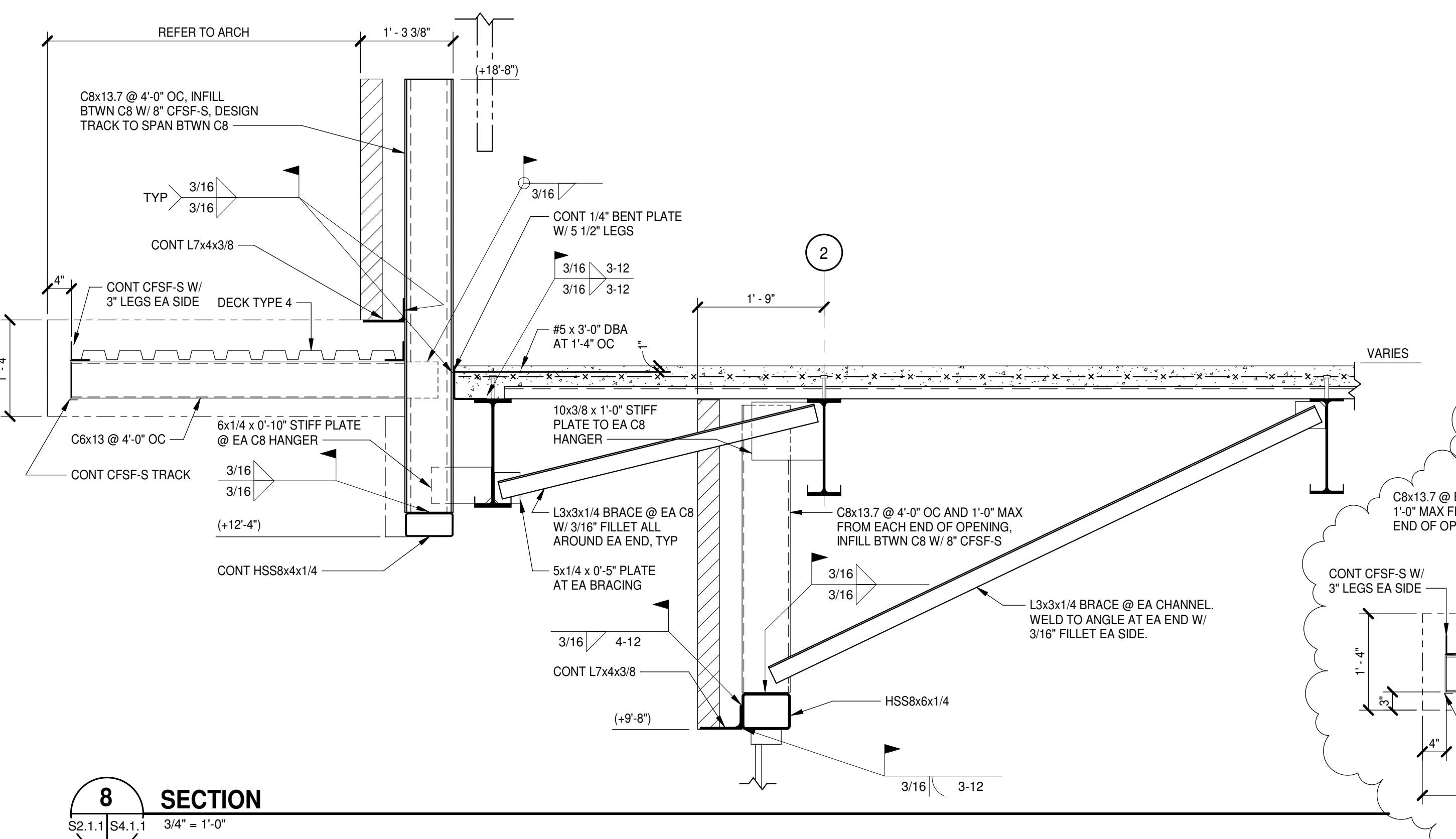
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FRAMING SECTIONS

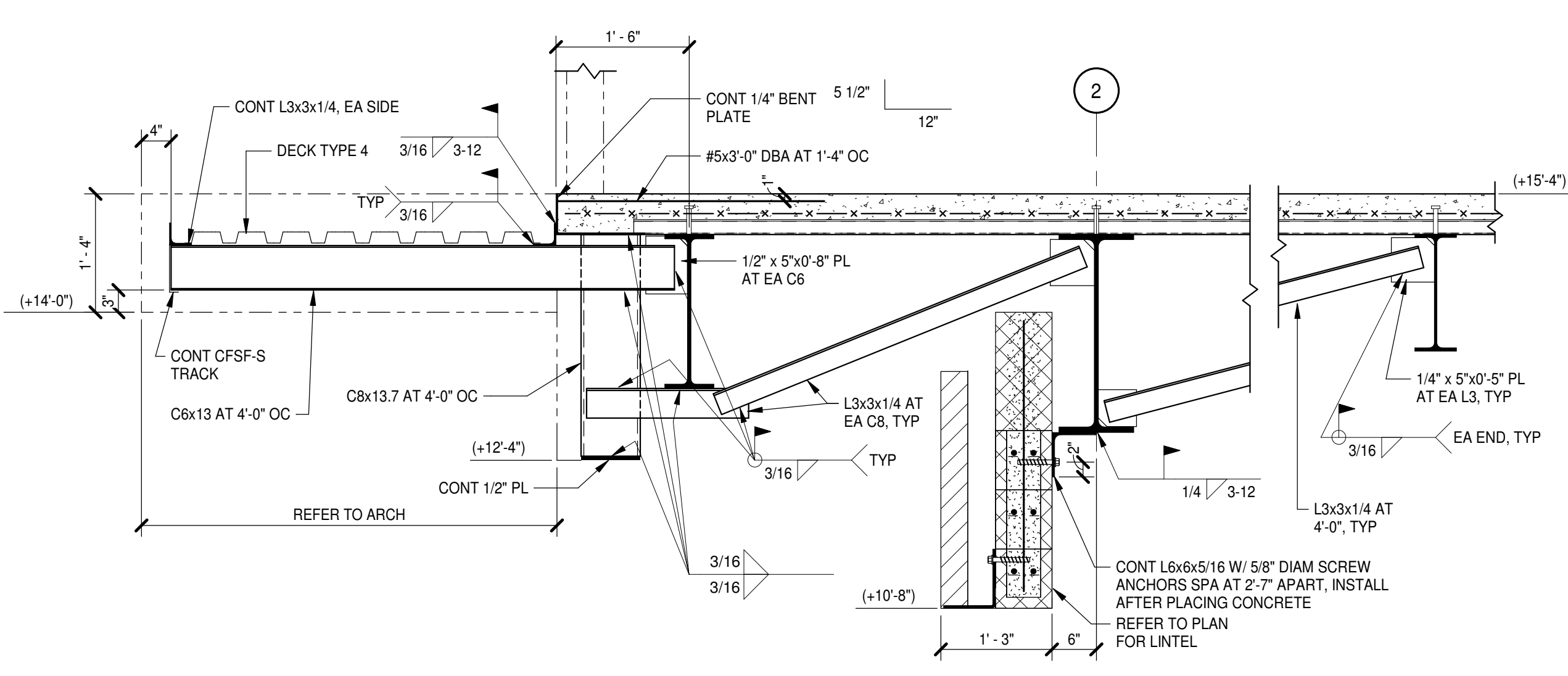
**S4.1.1**



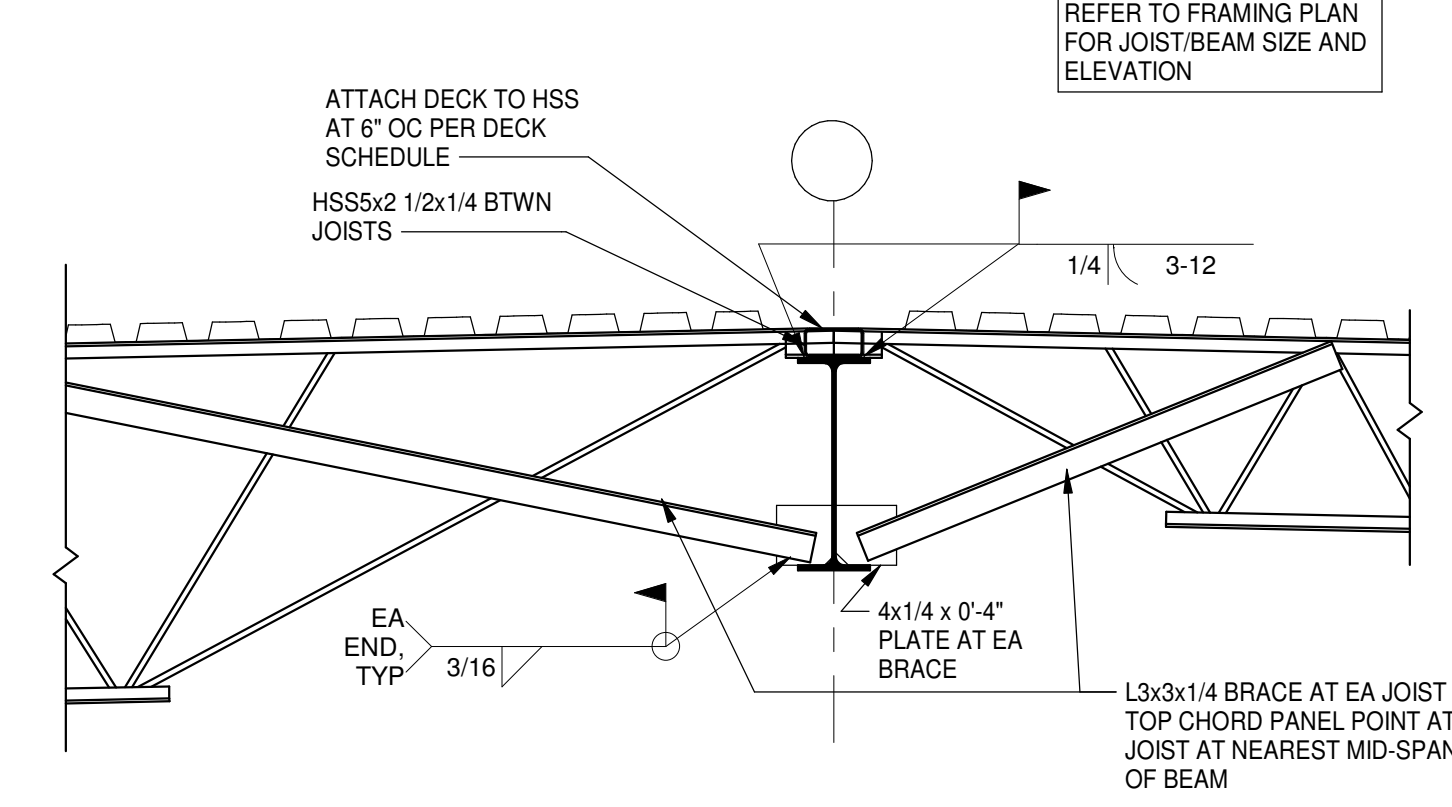
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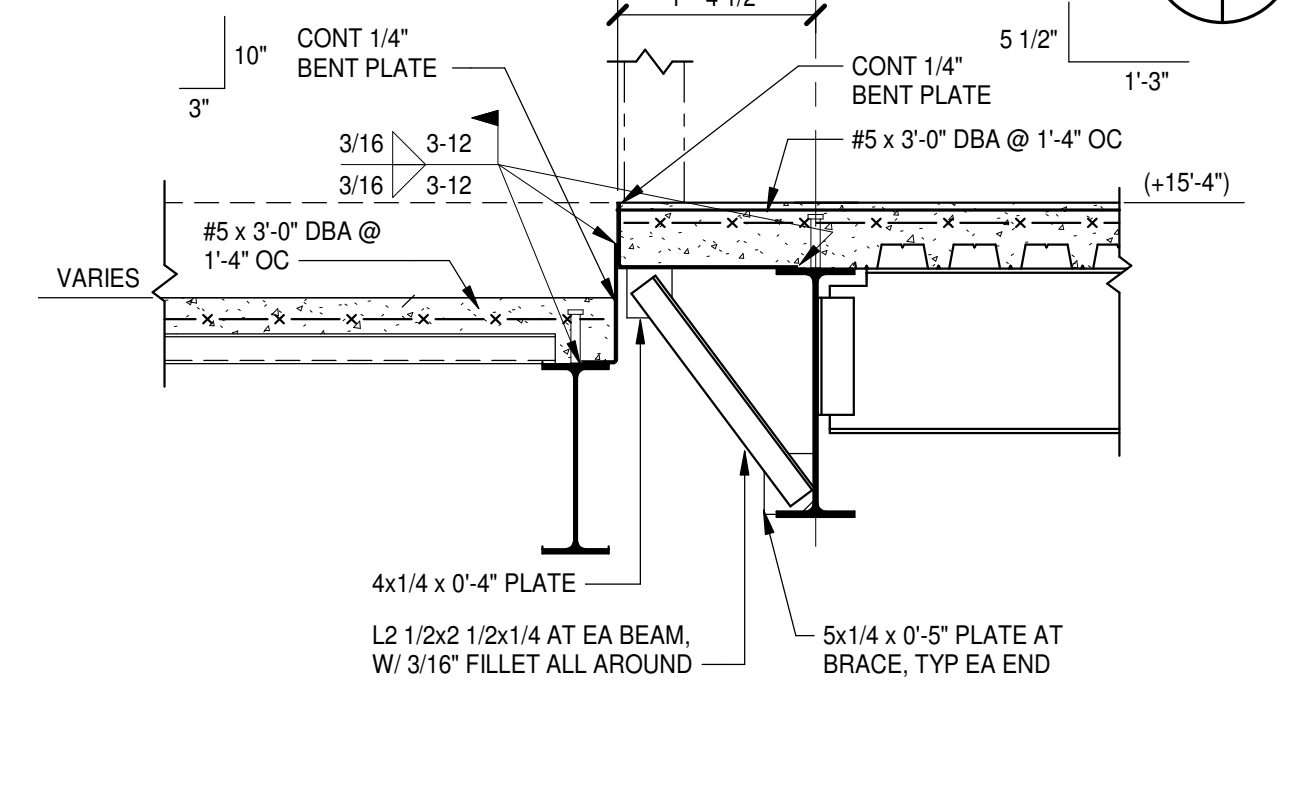
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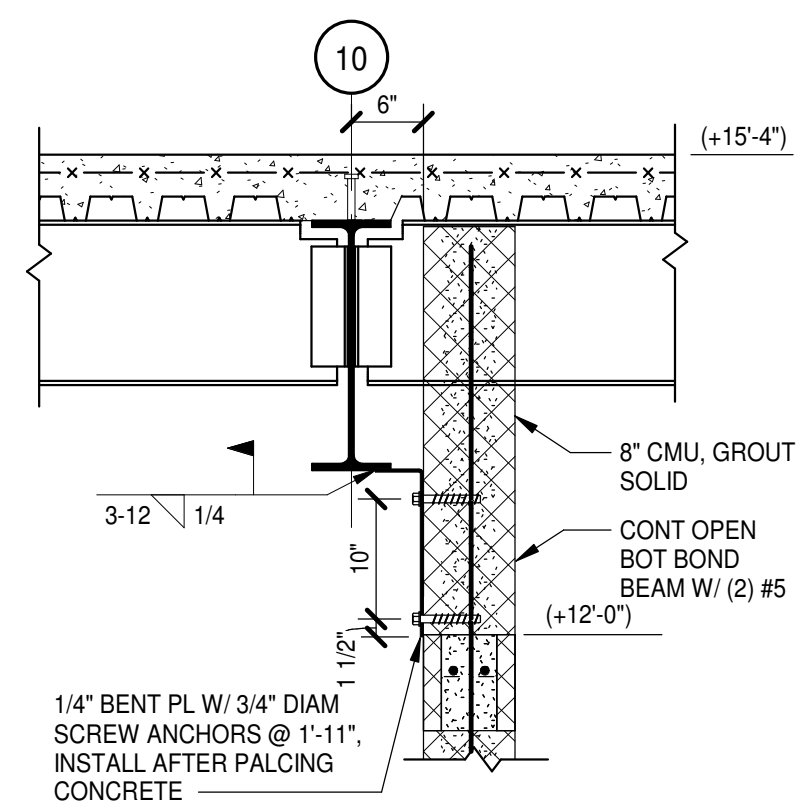
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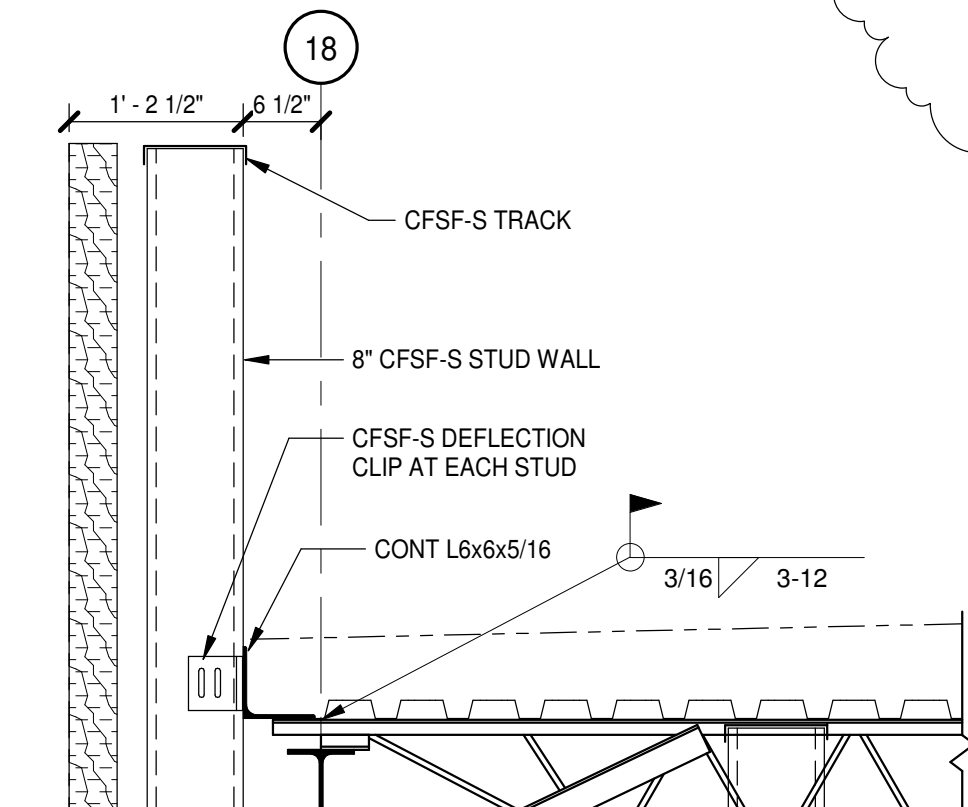
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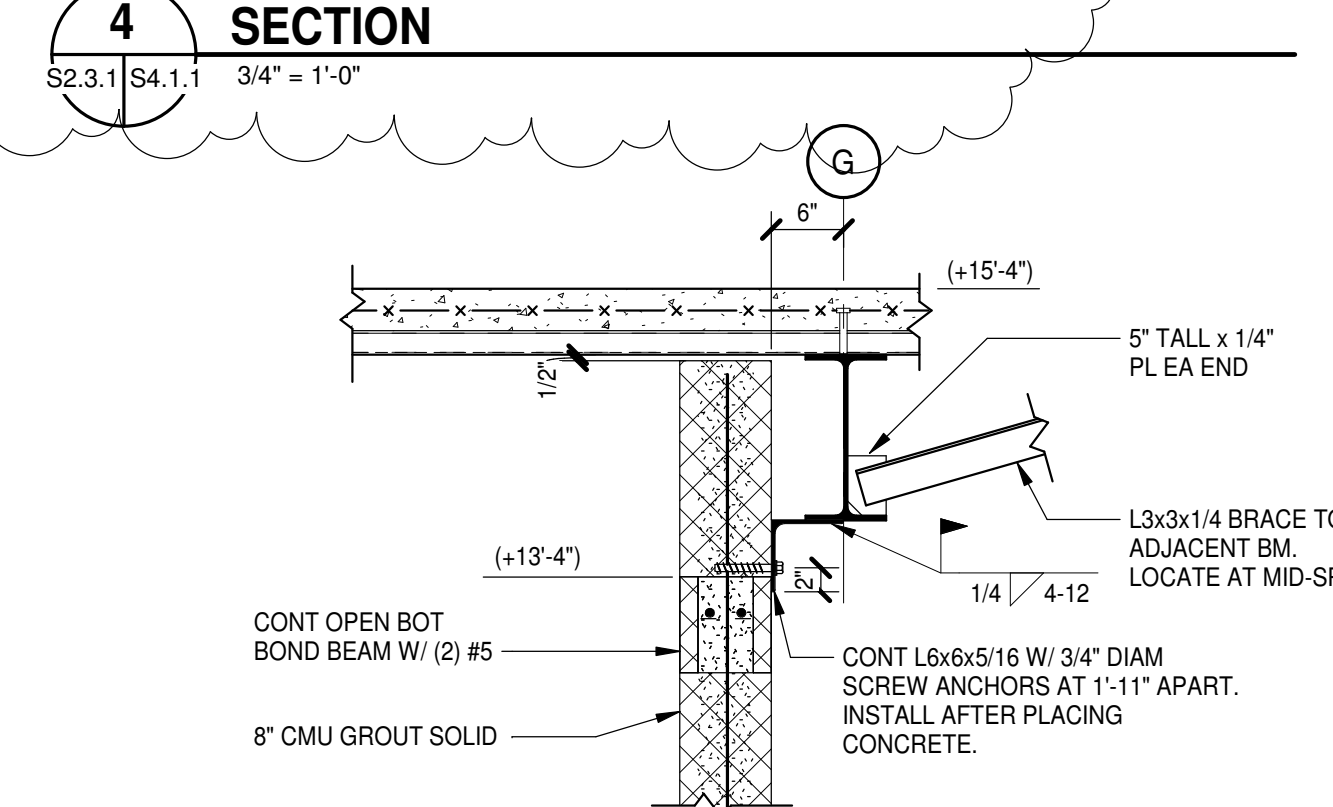
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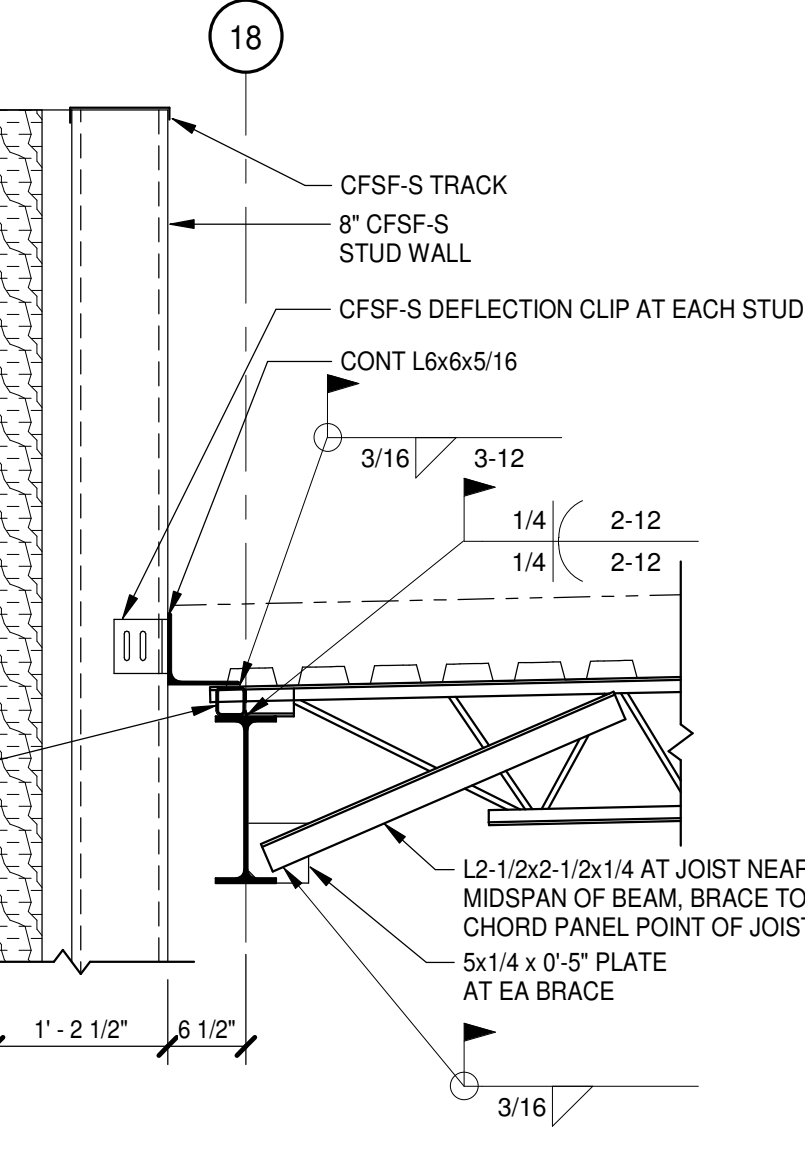
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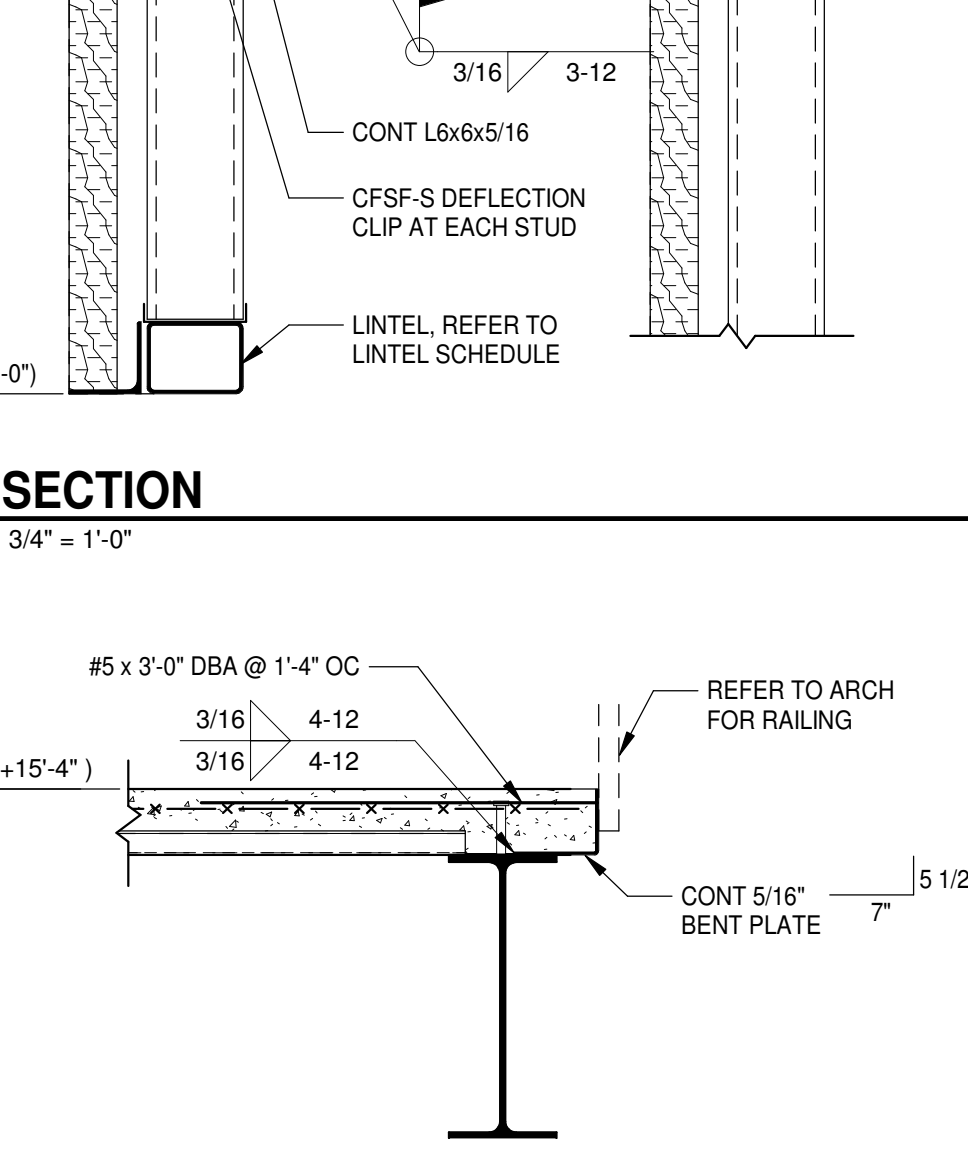
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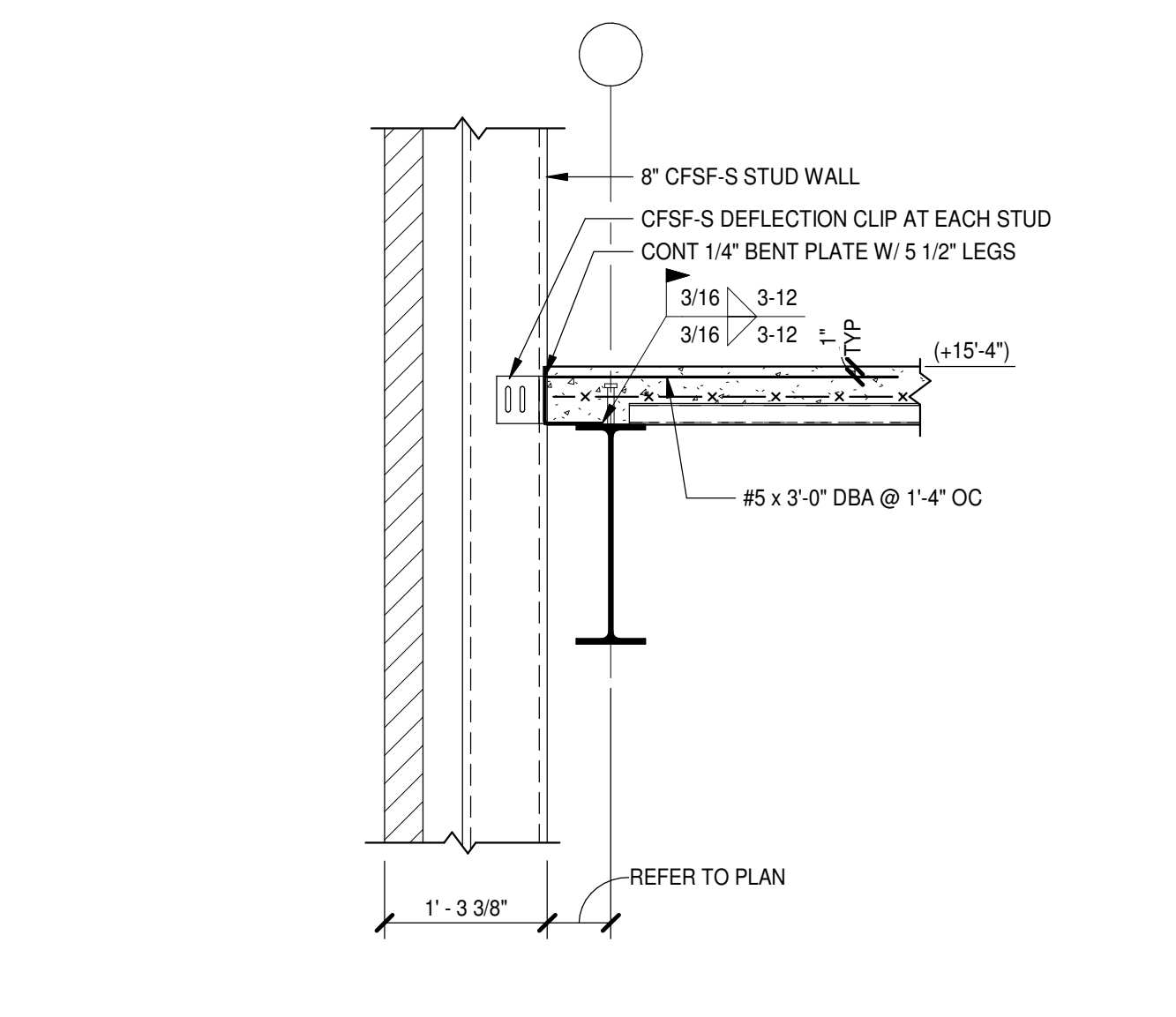
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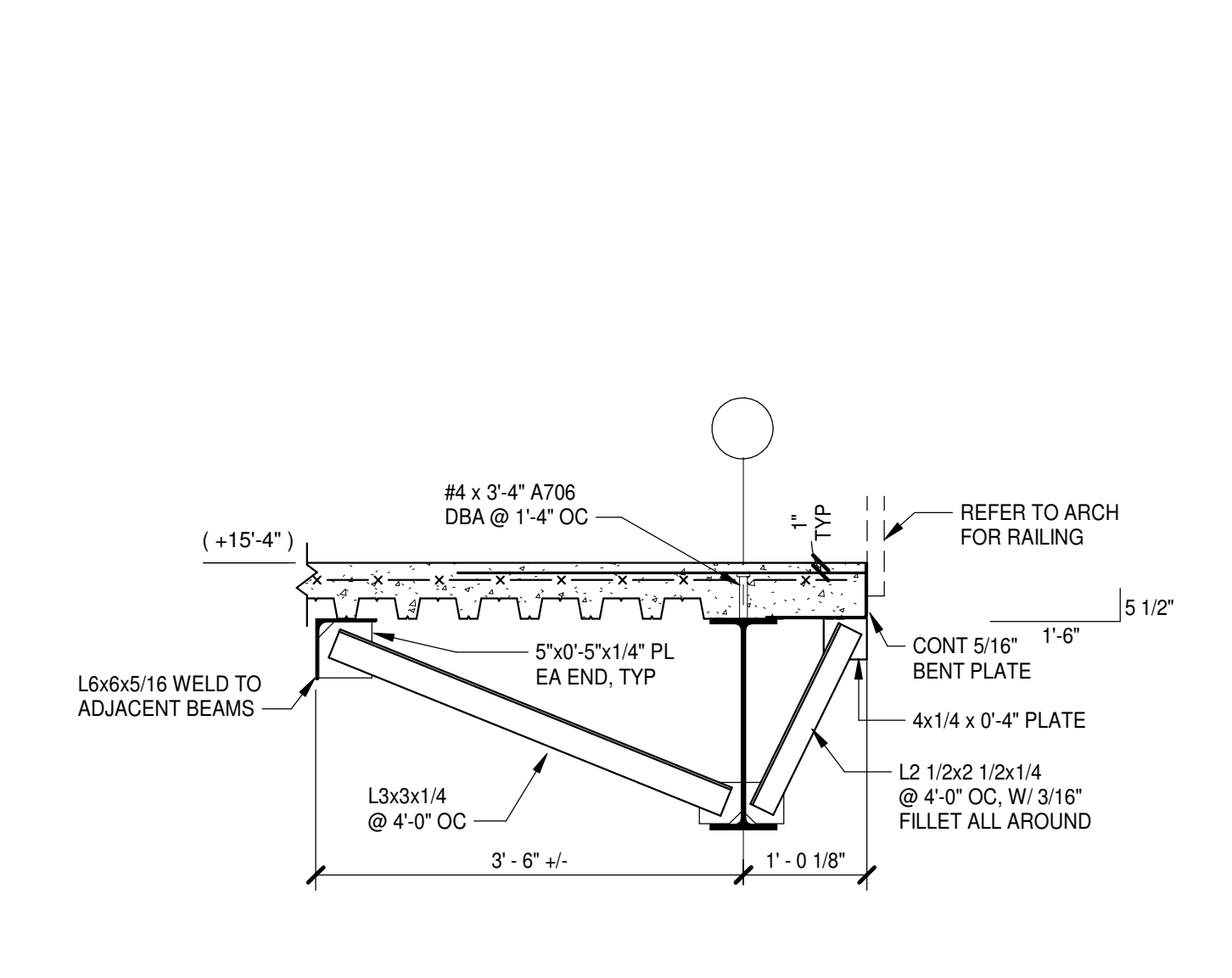
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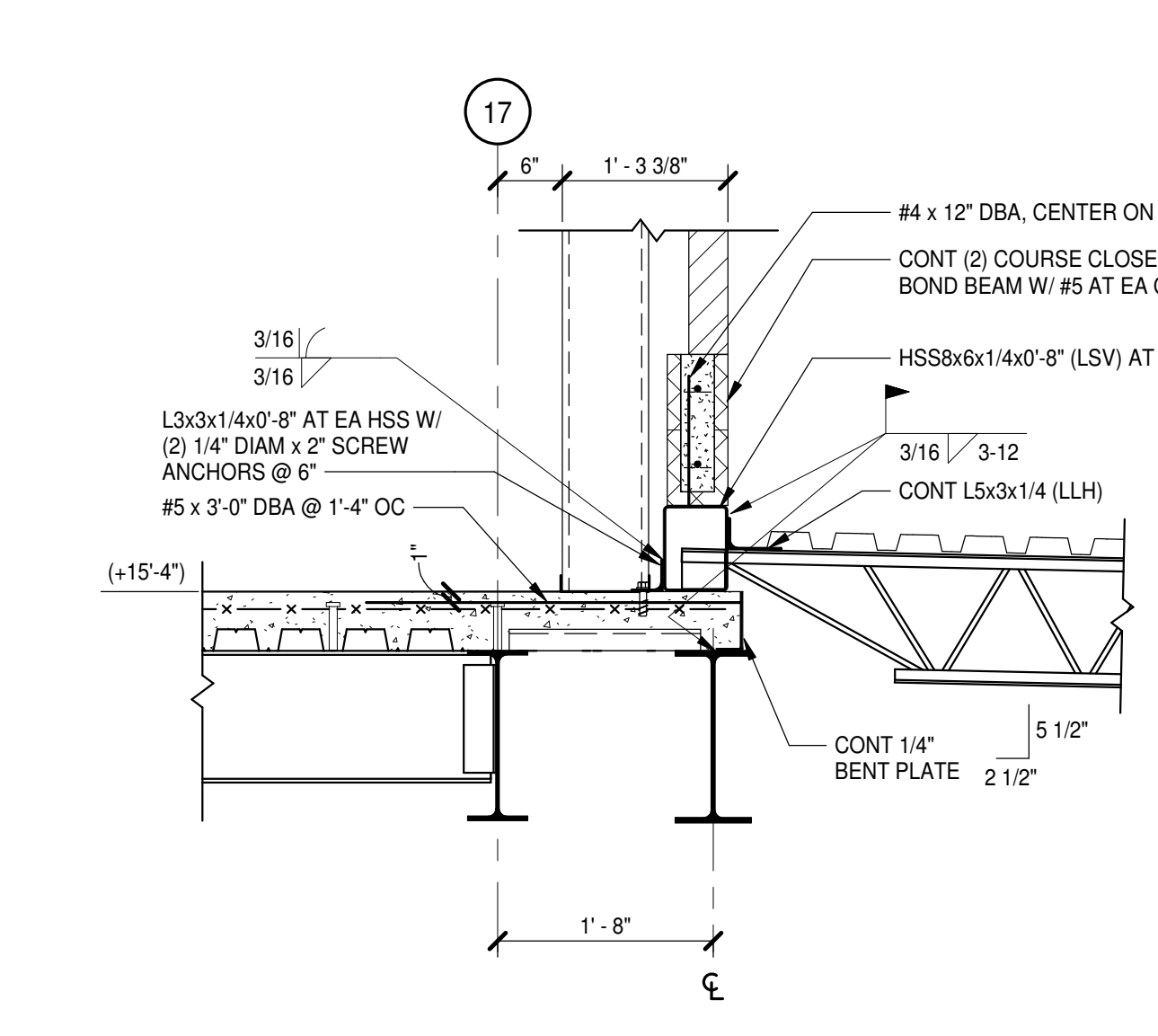
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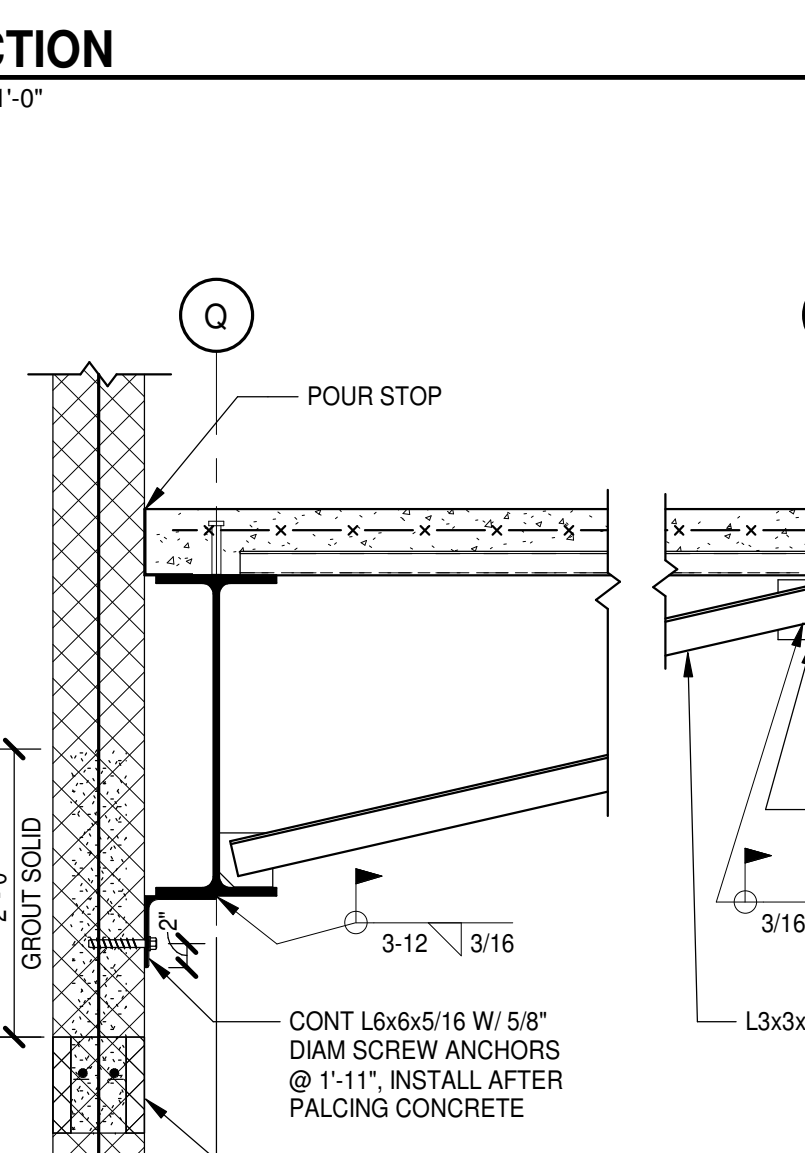
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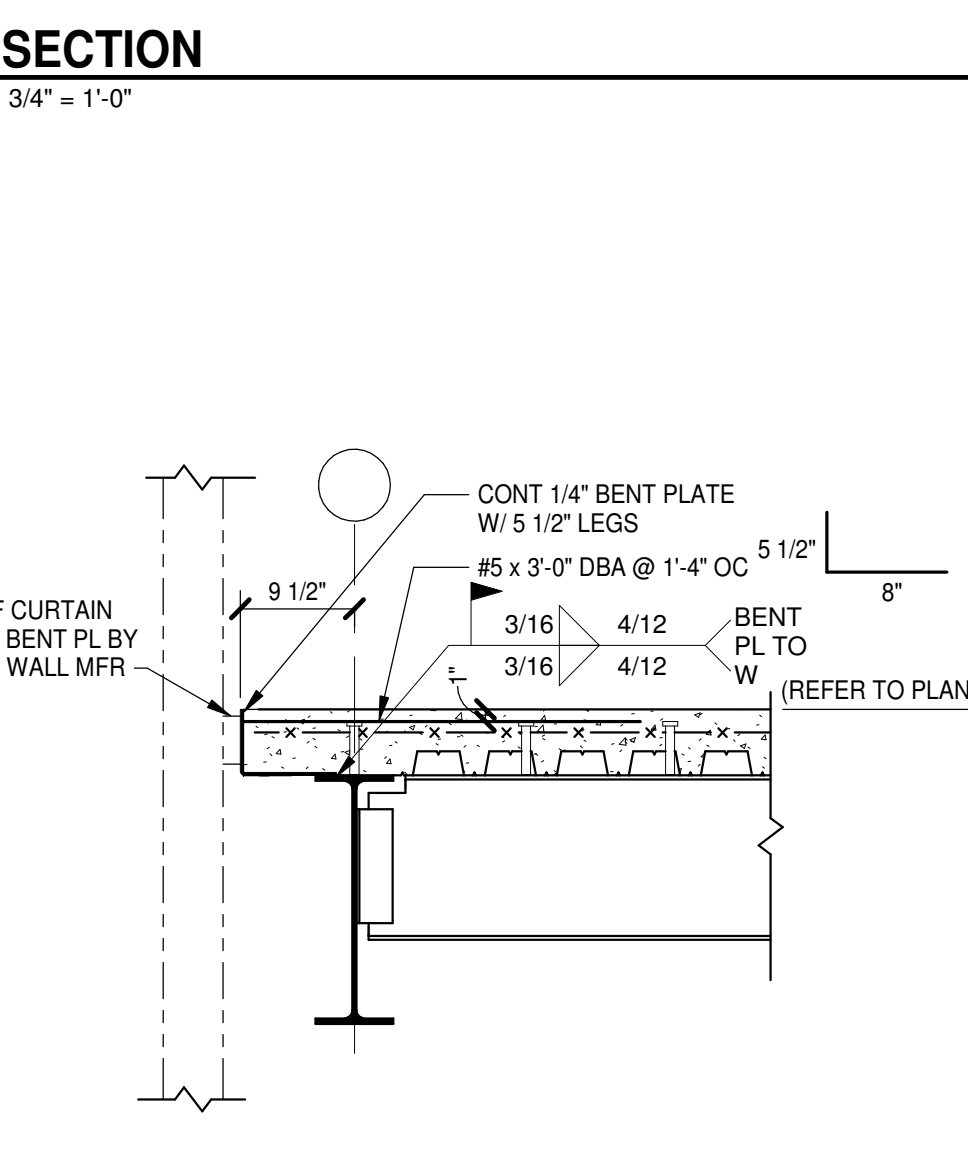
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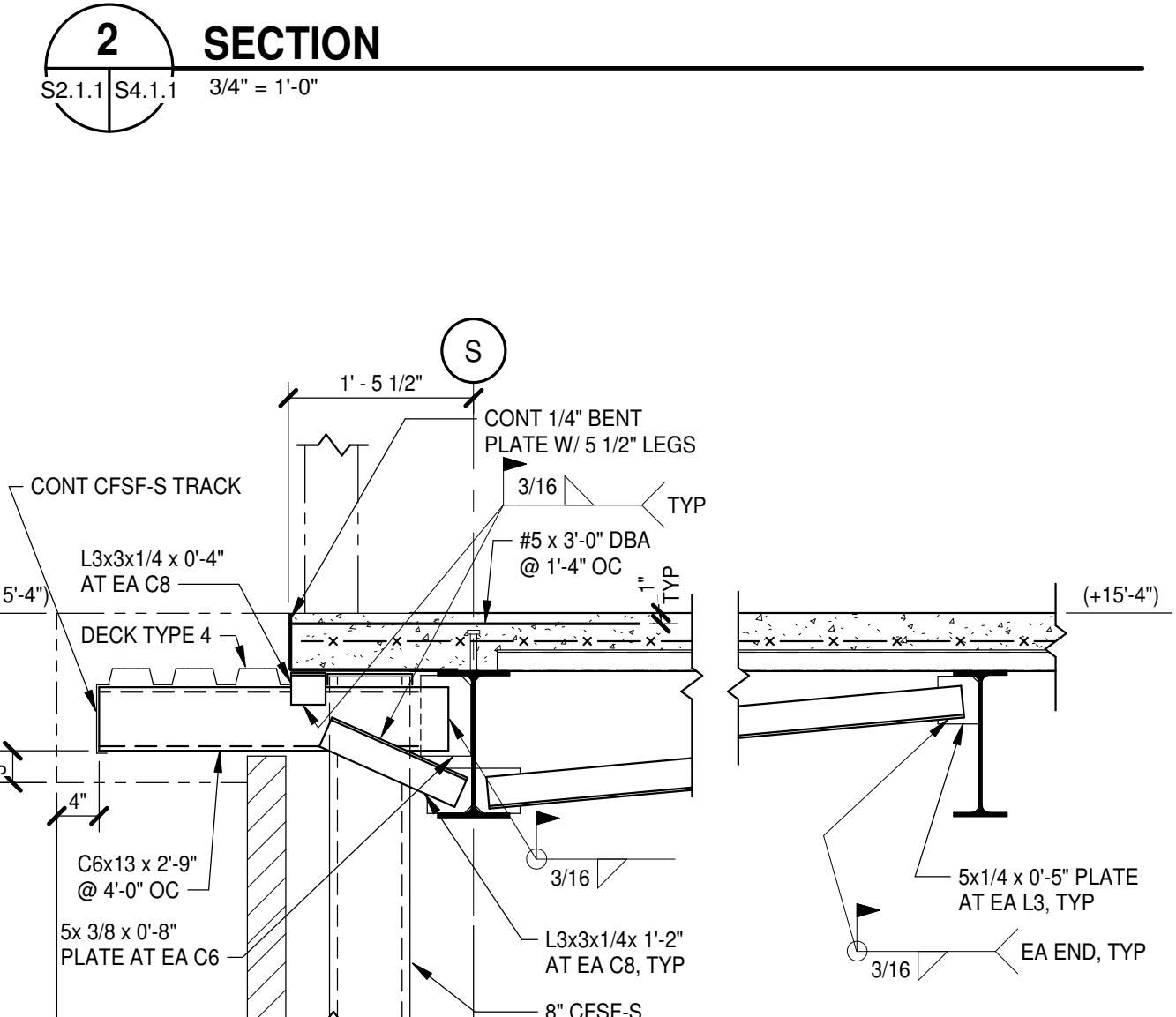
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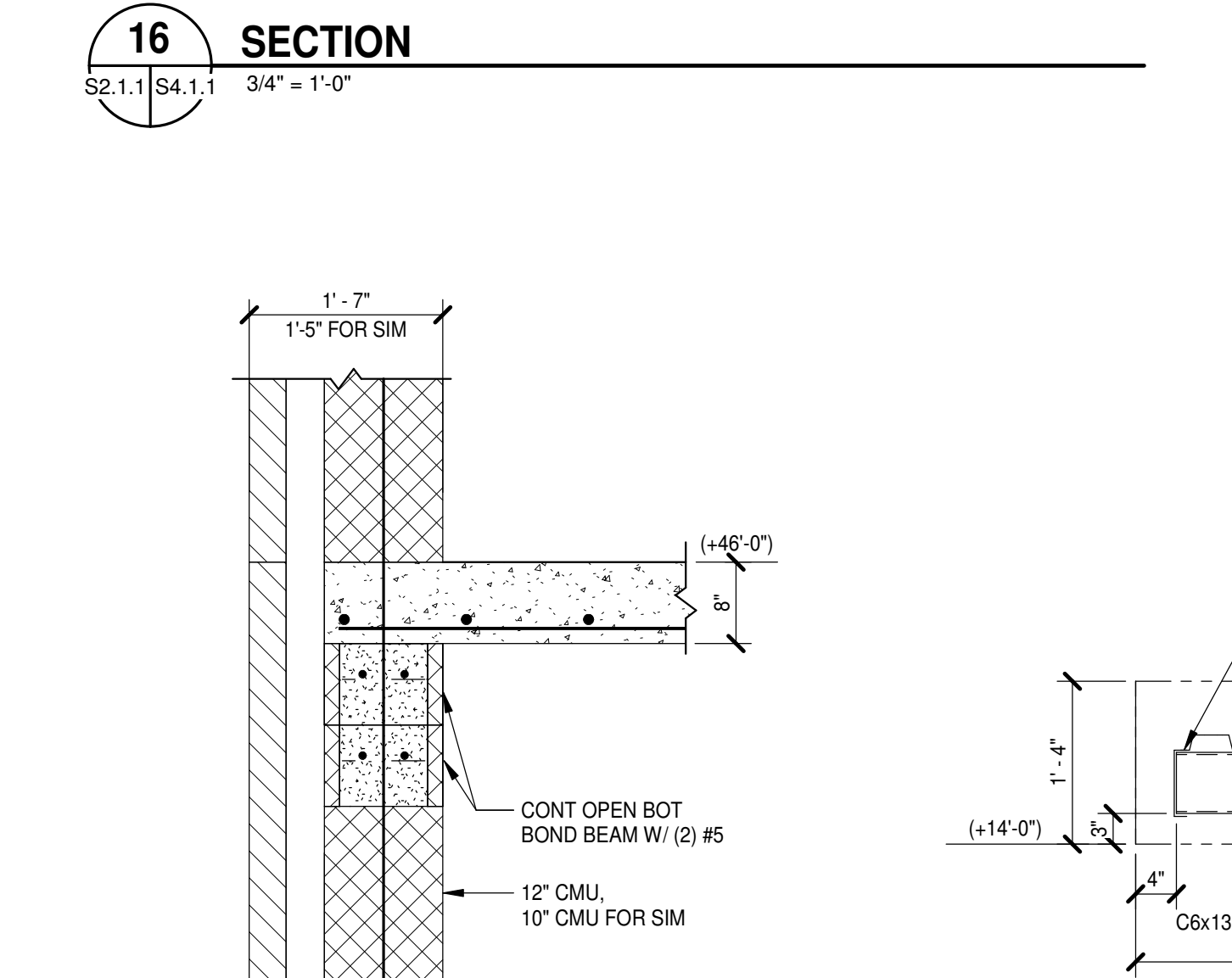
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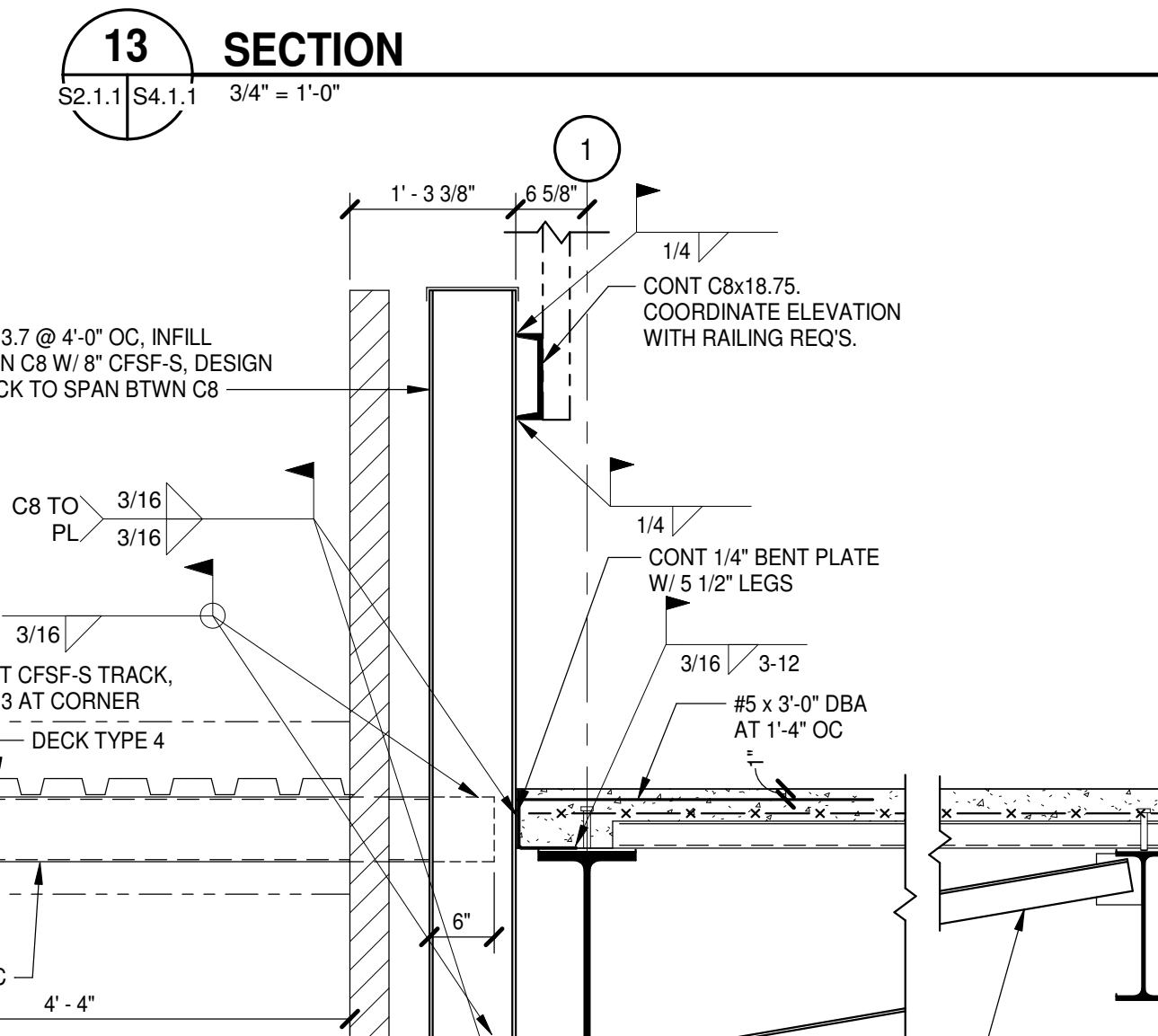
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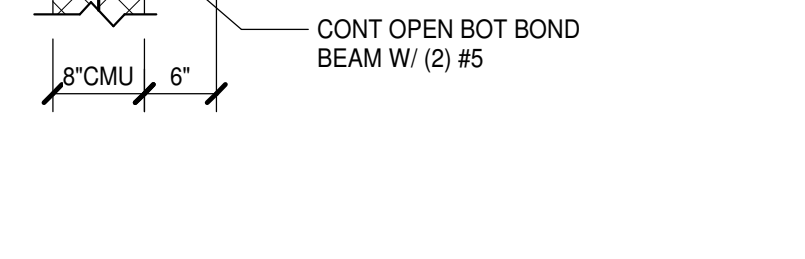
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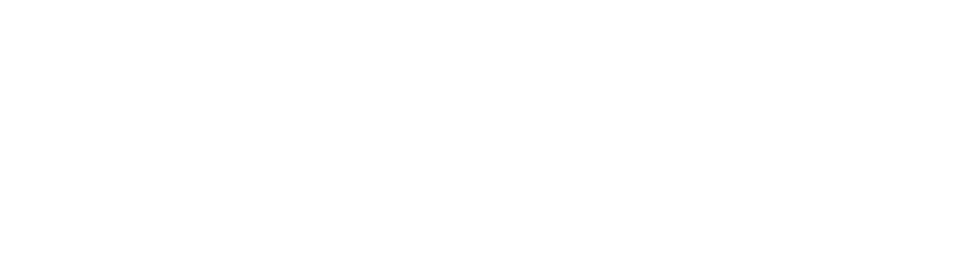
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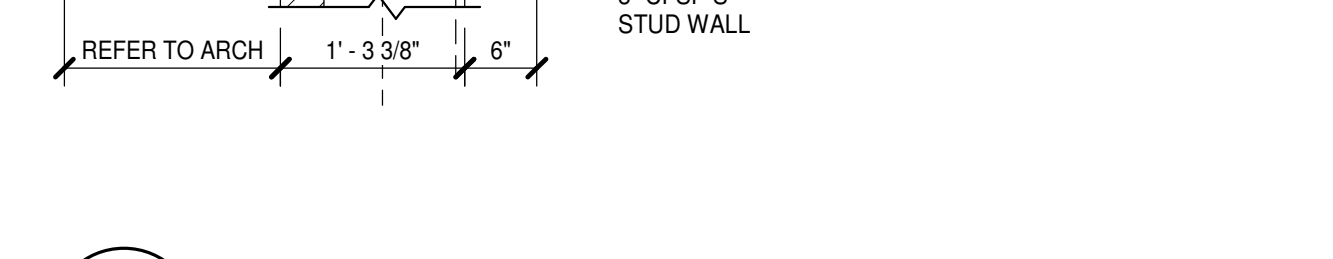
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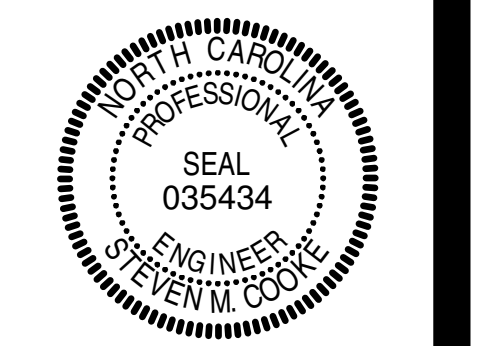
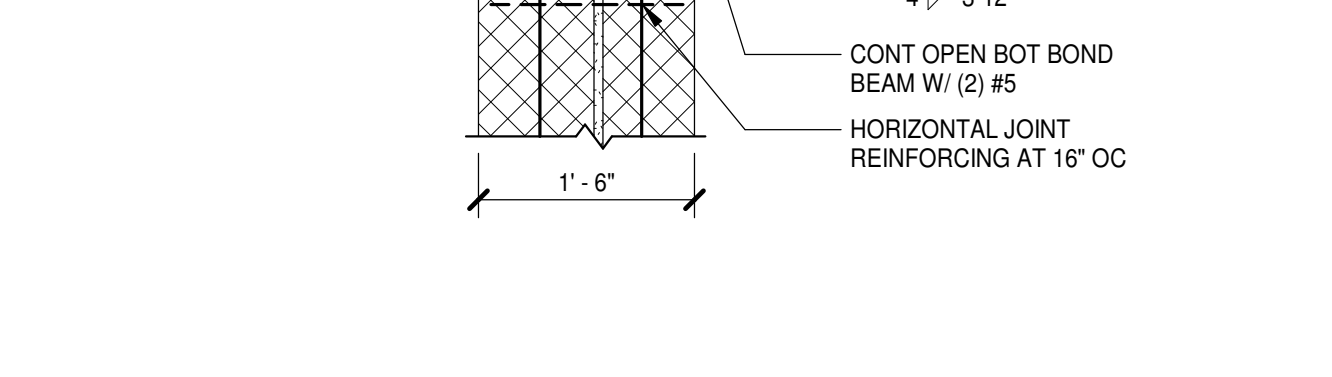
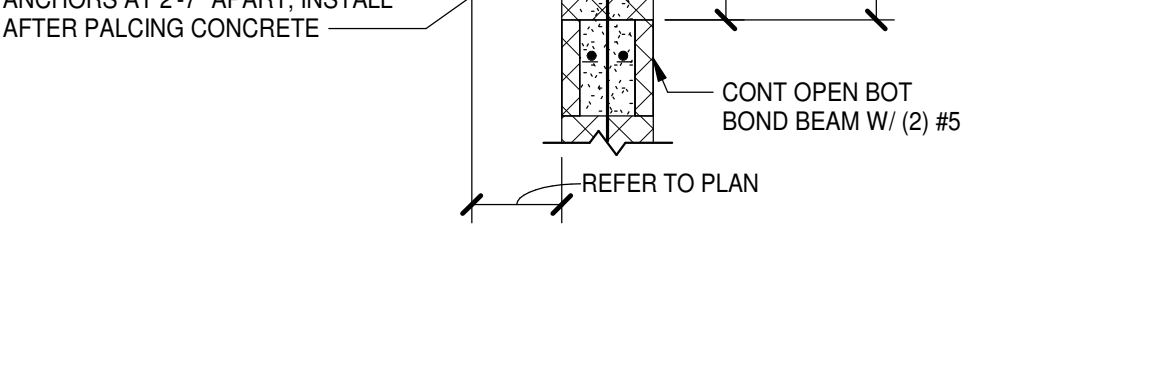
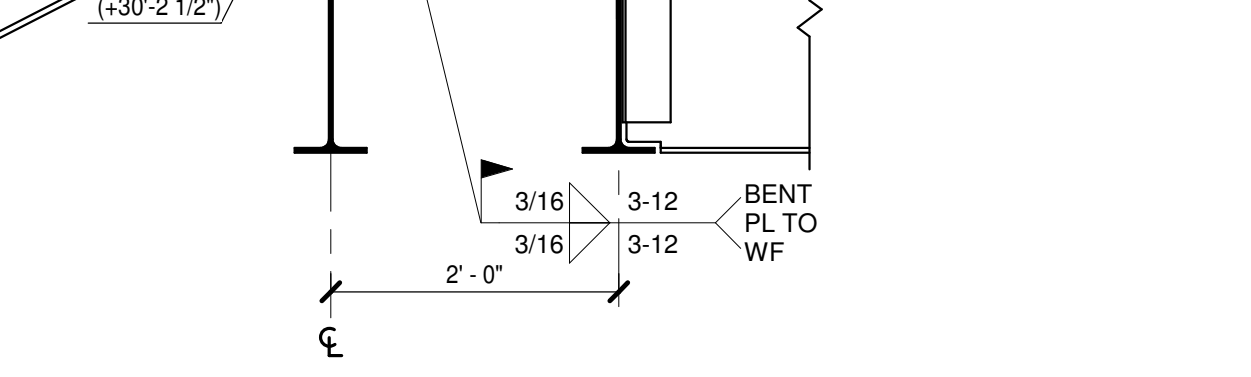
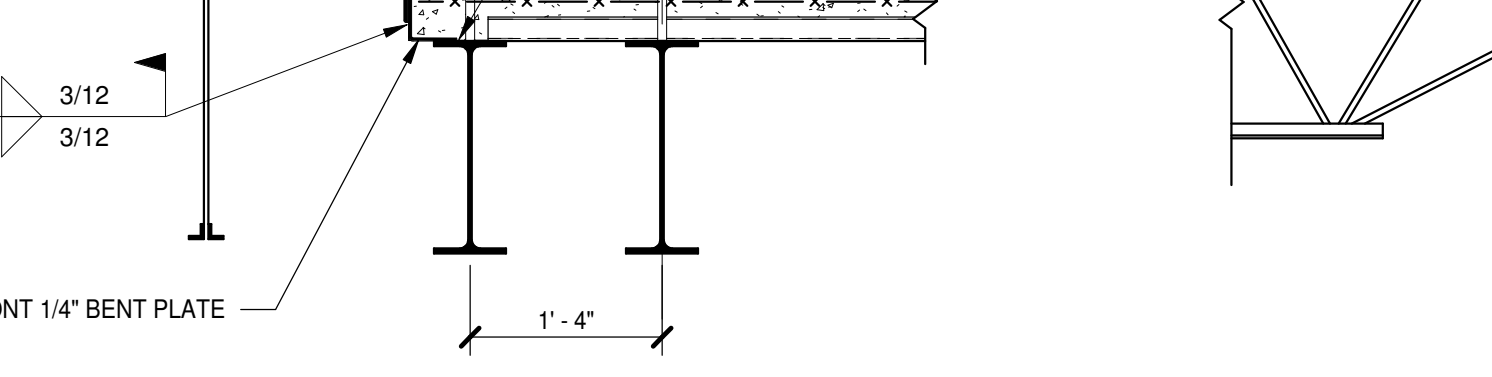
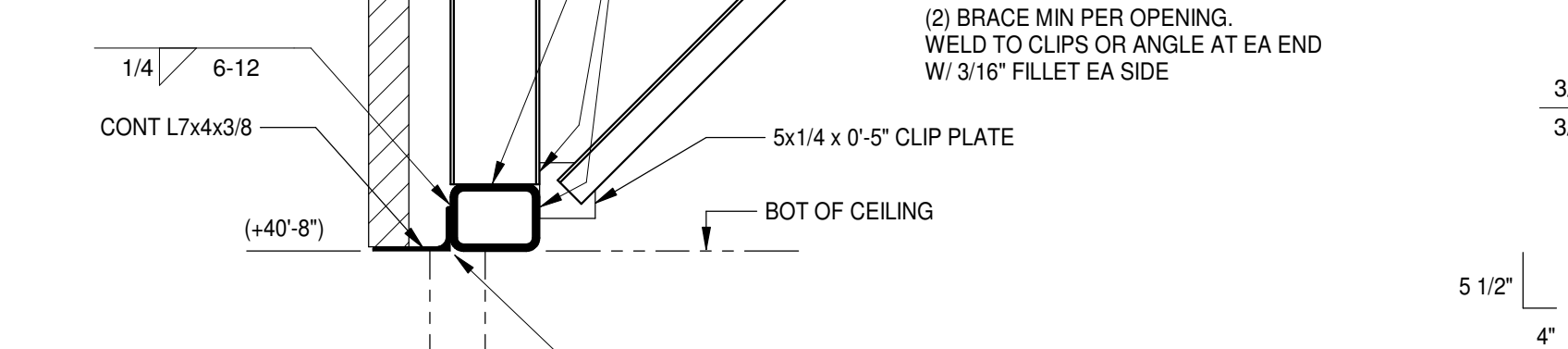
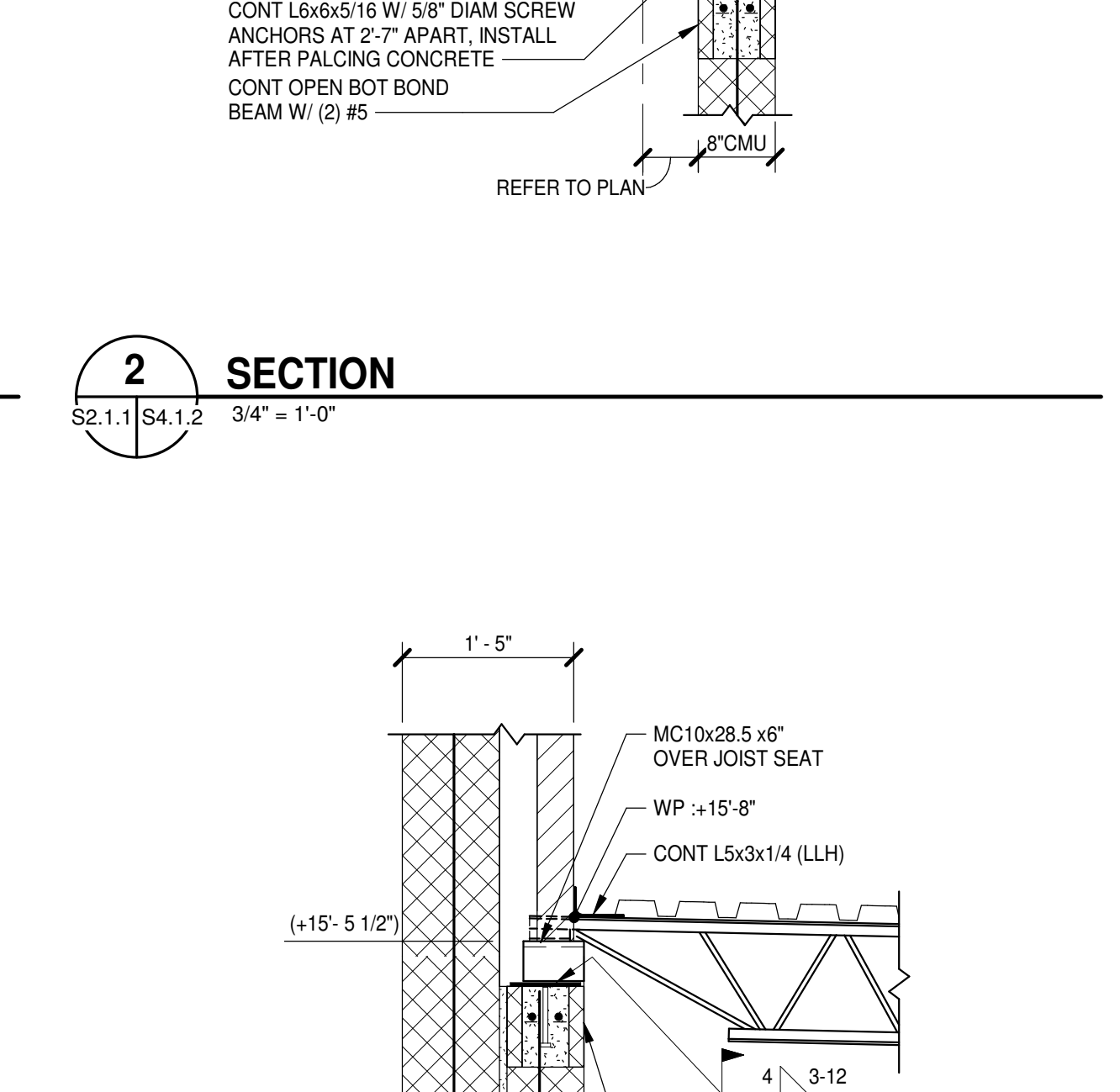
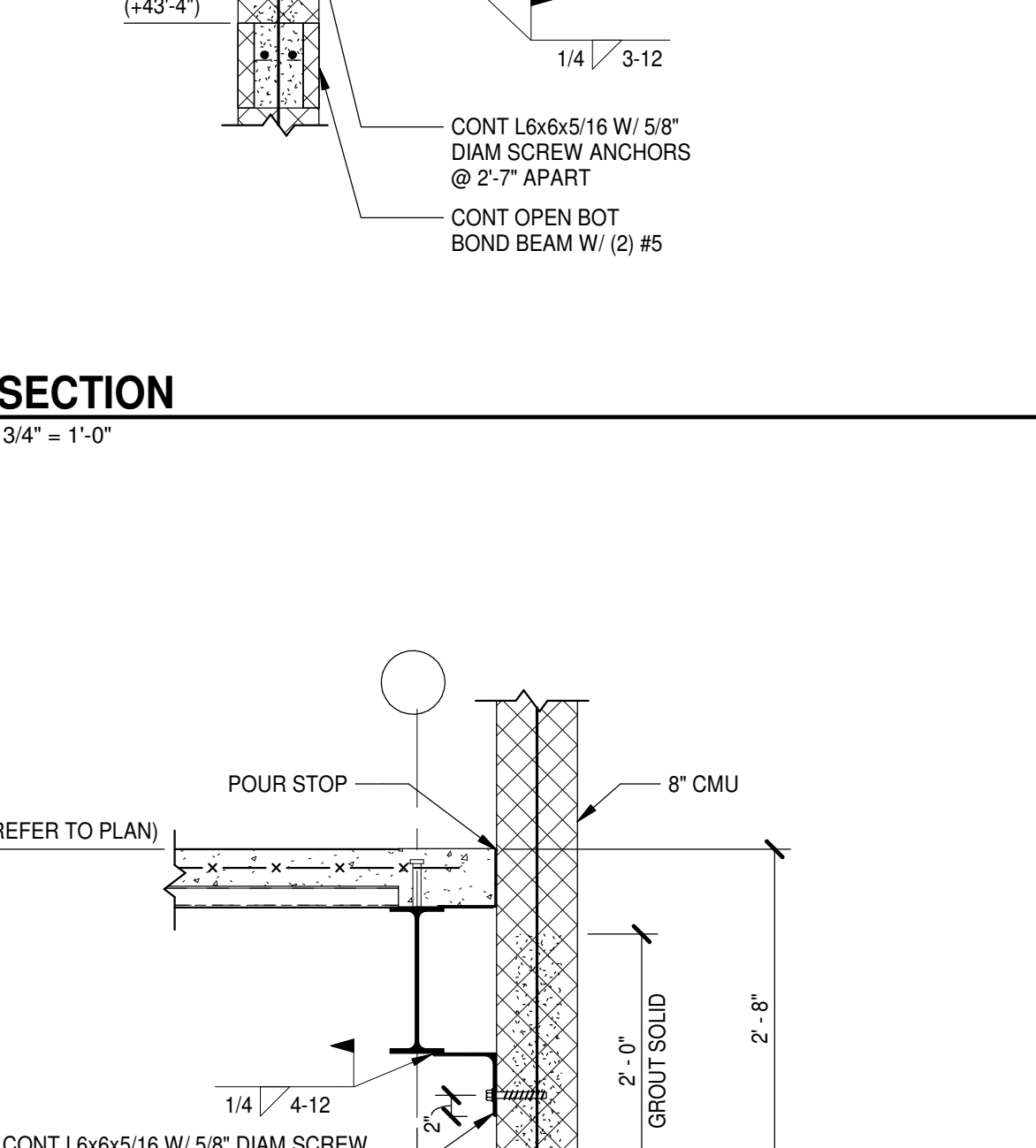
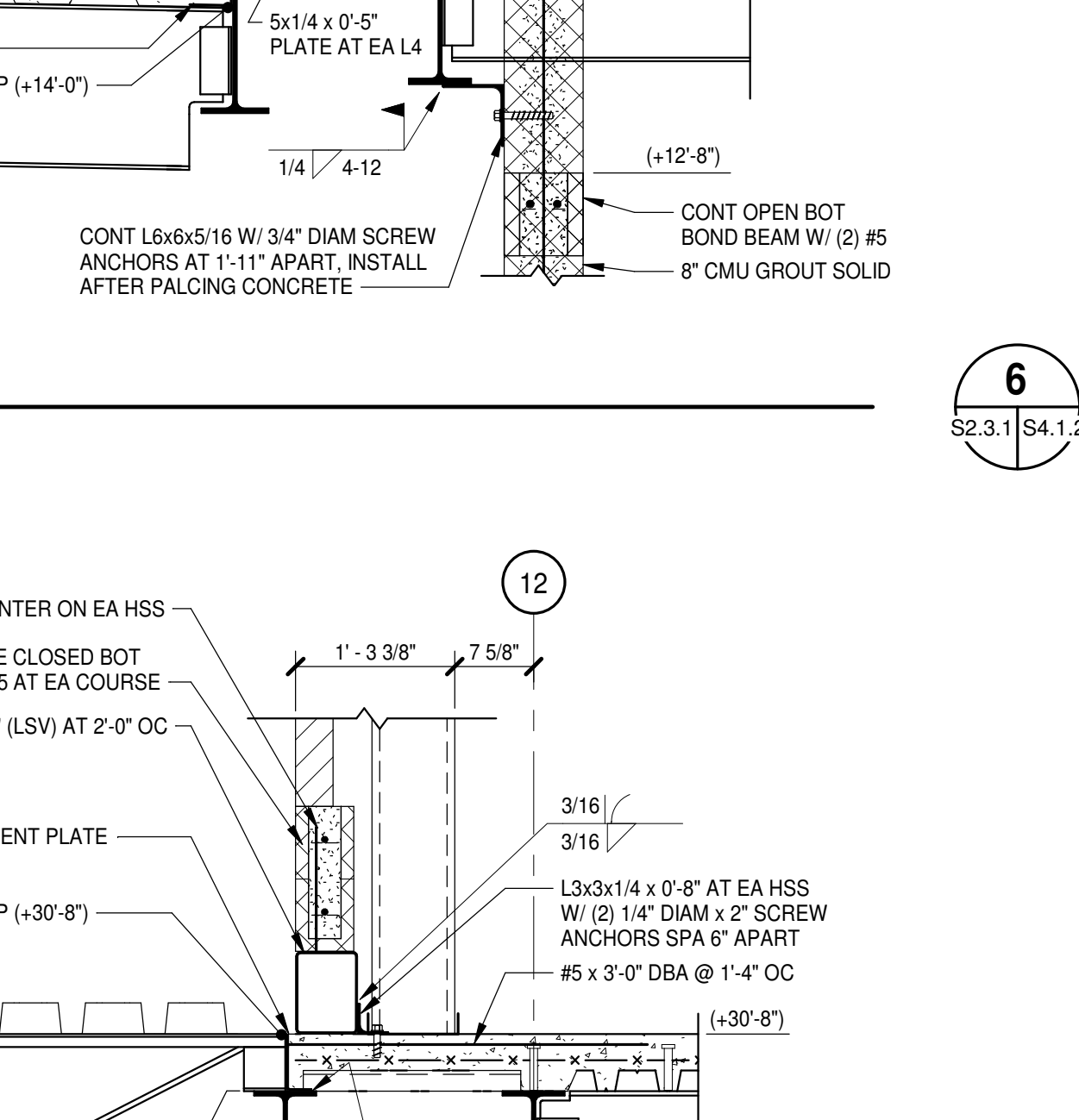
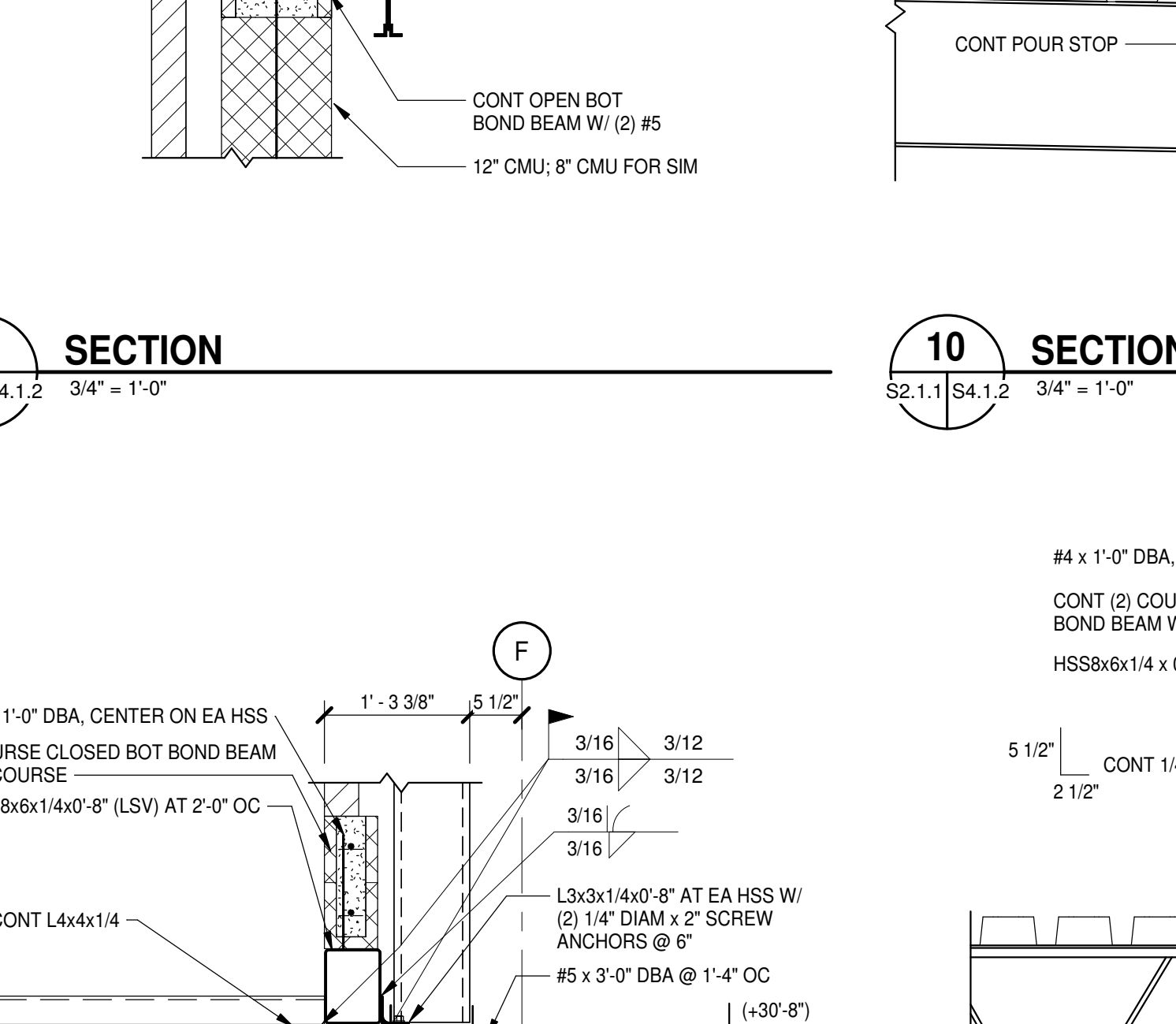
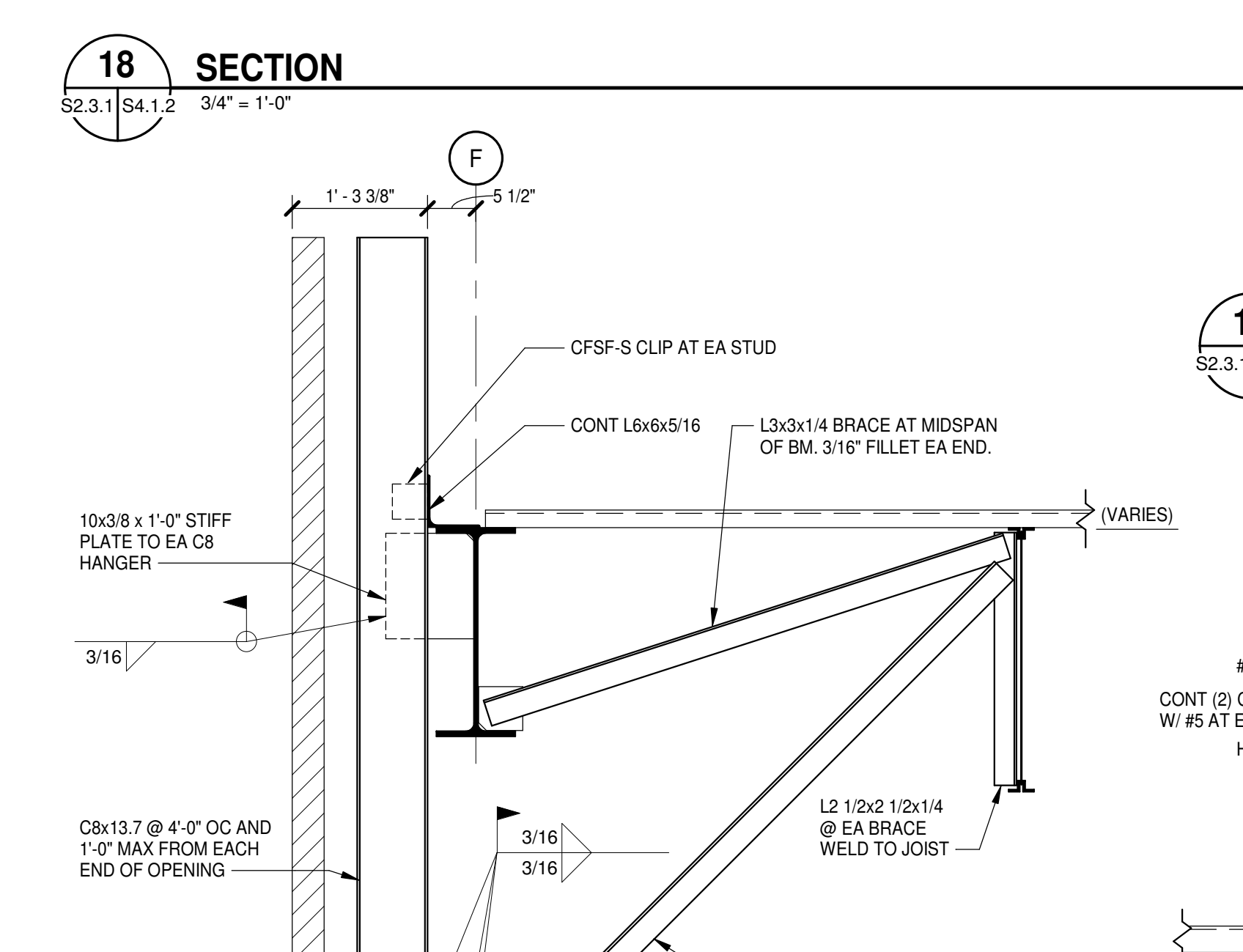
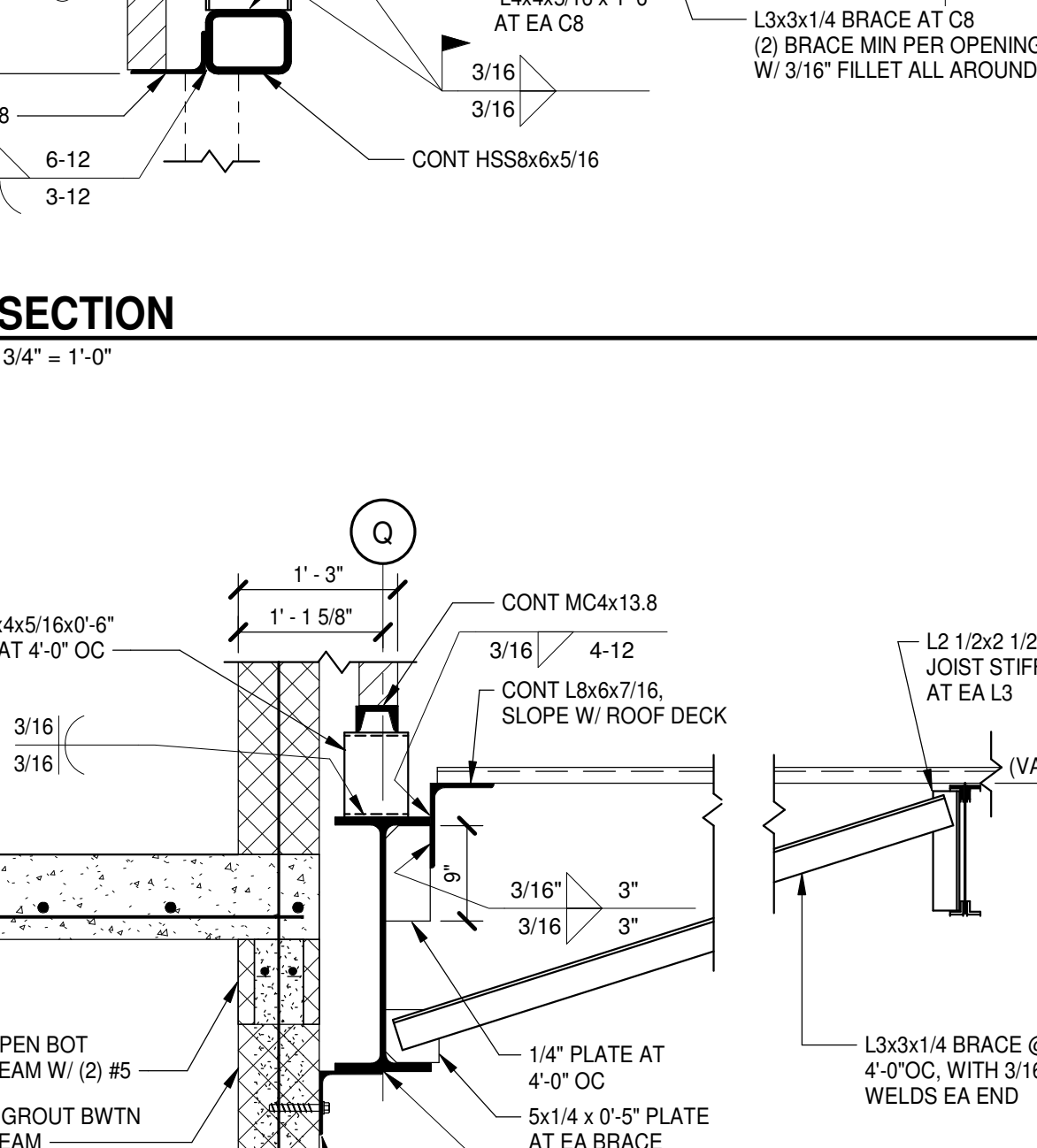
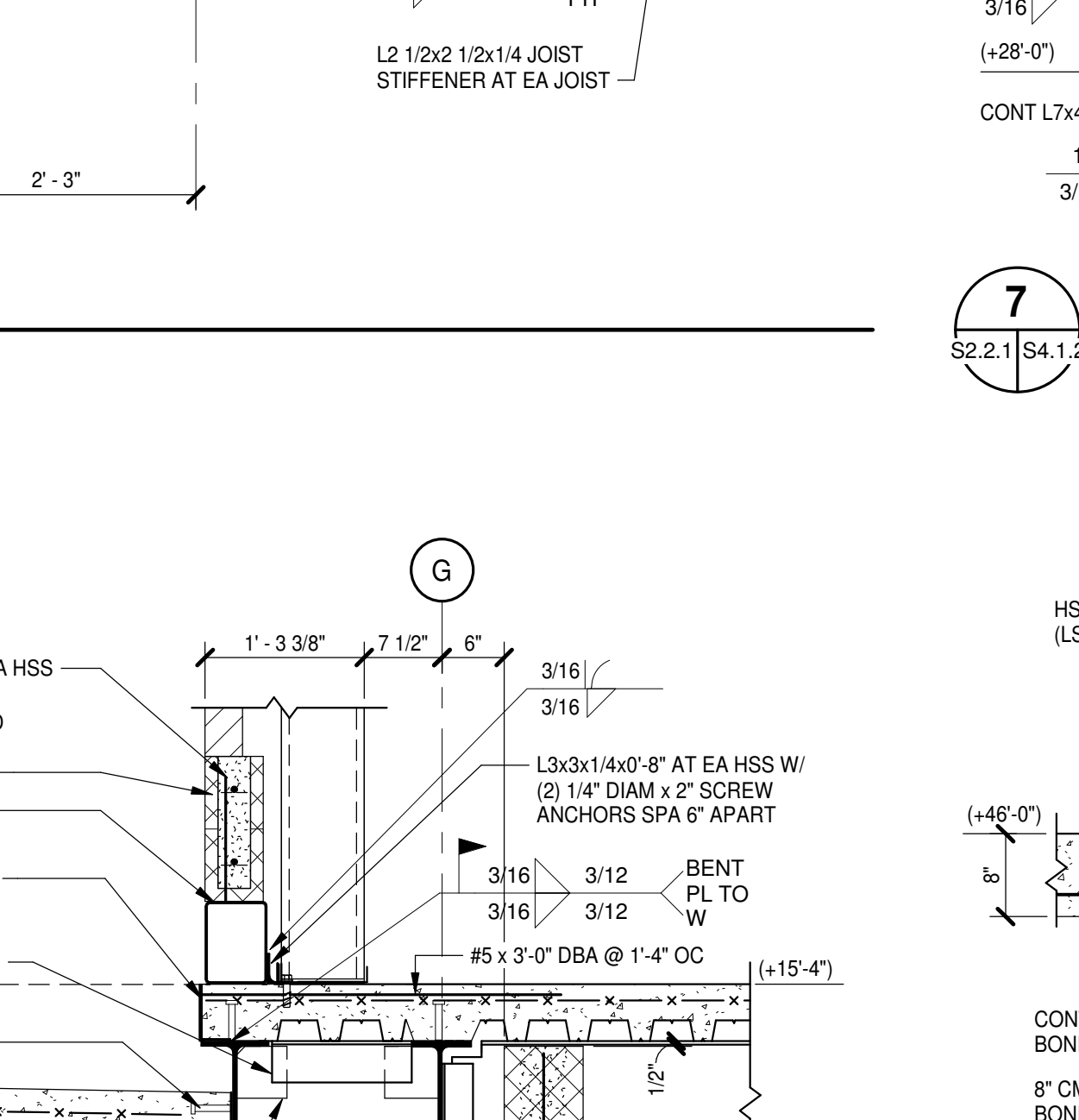
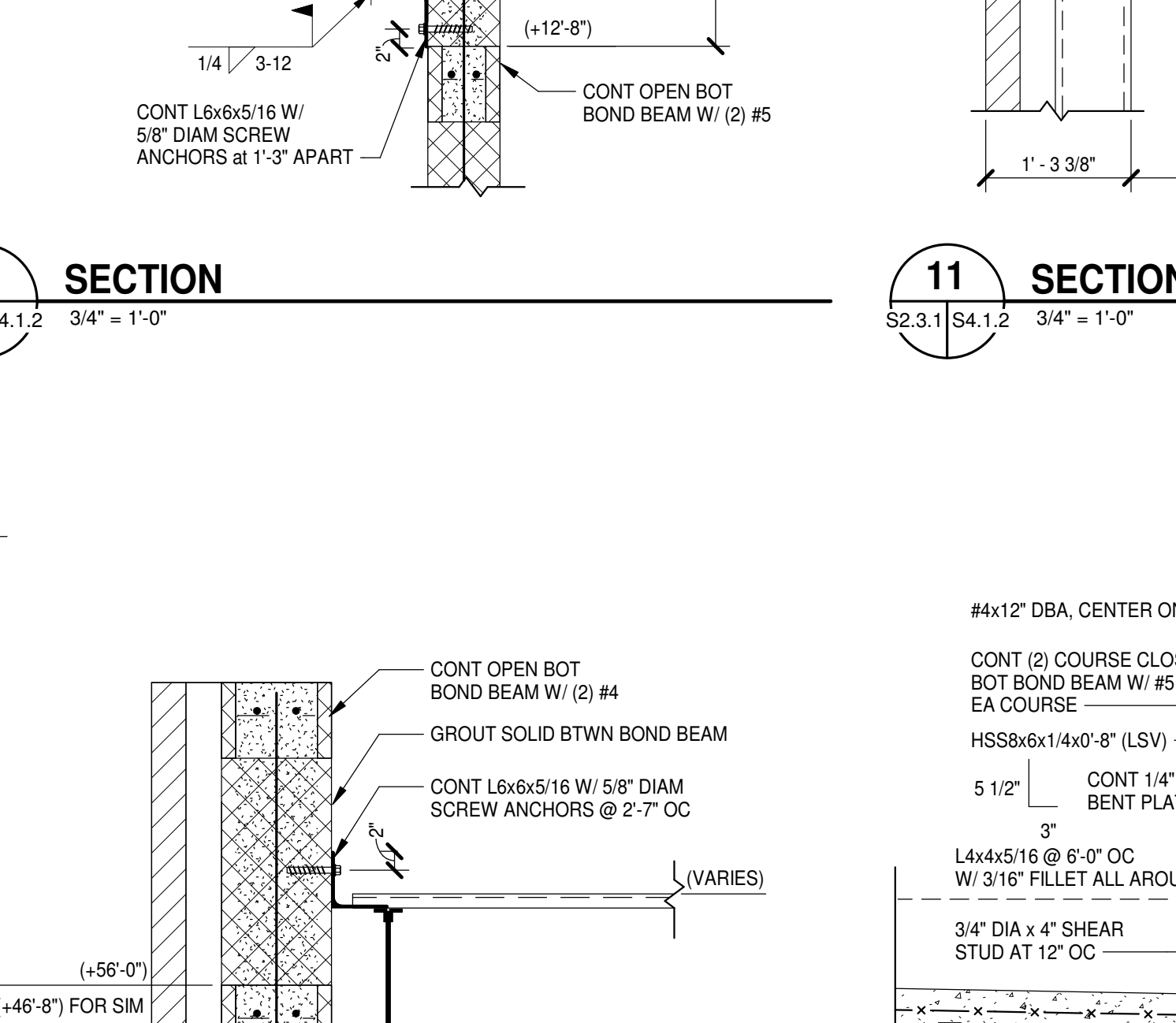
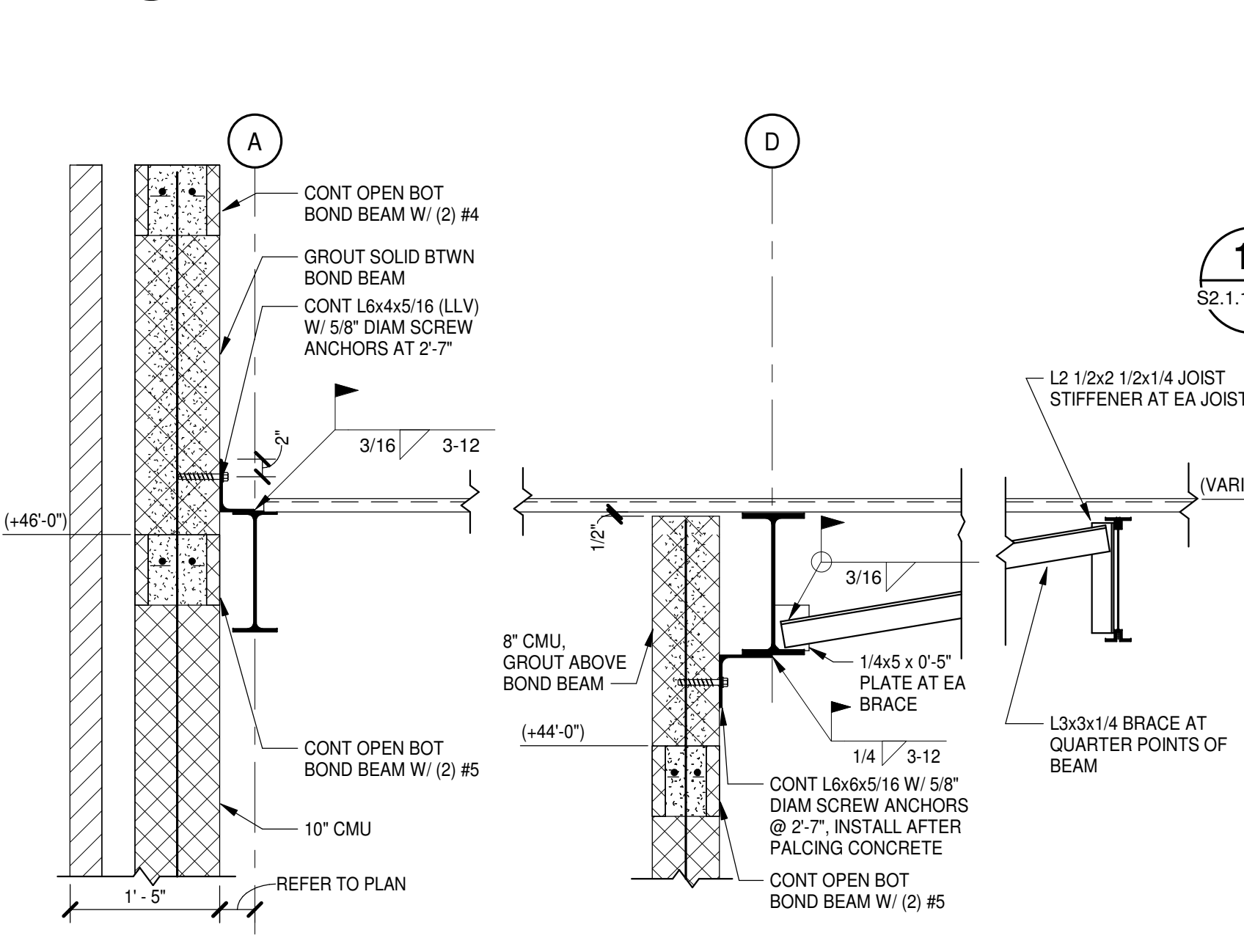
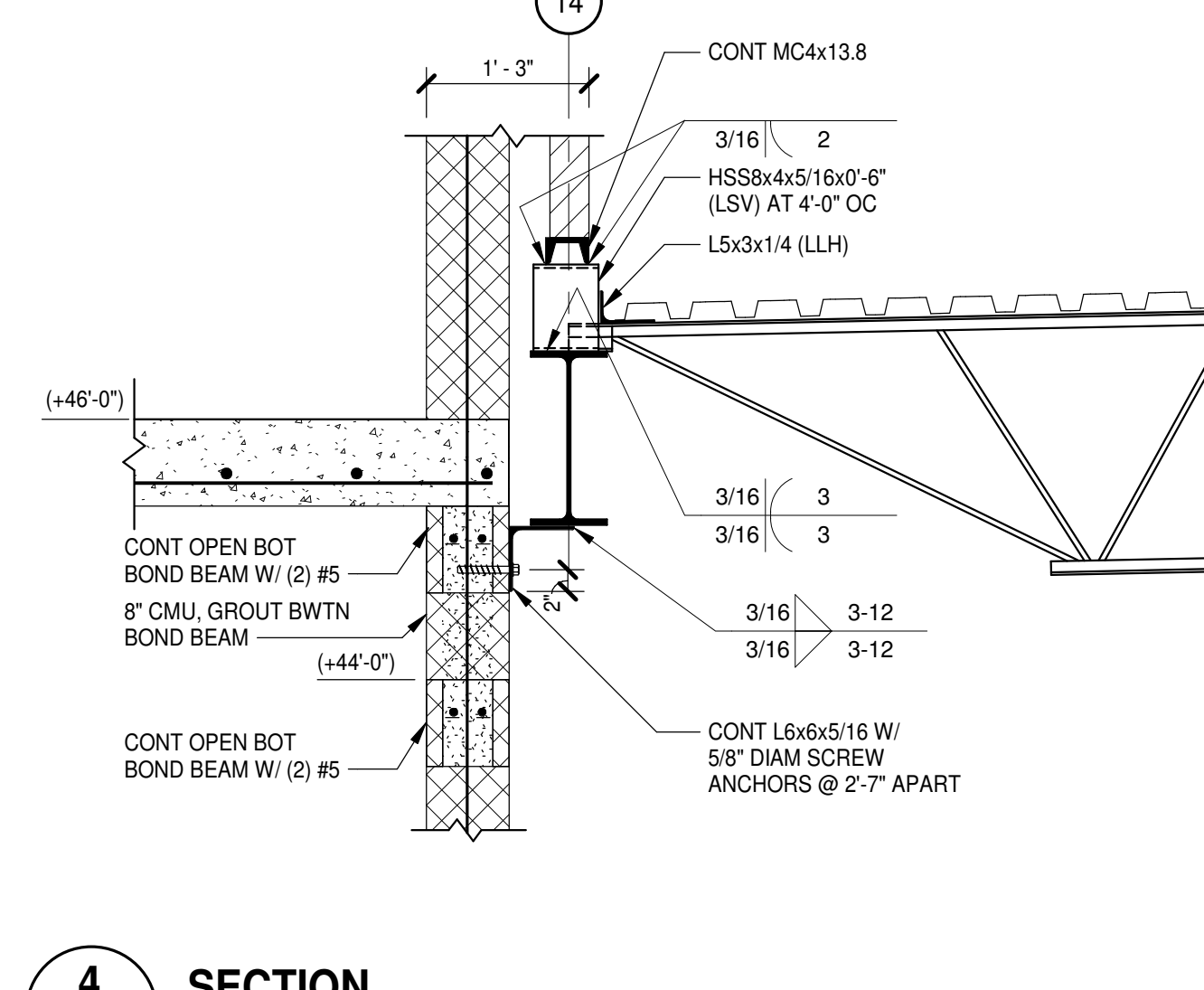
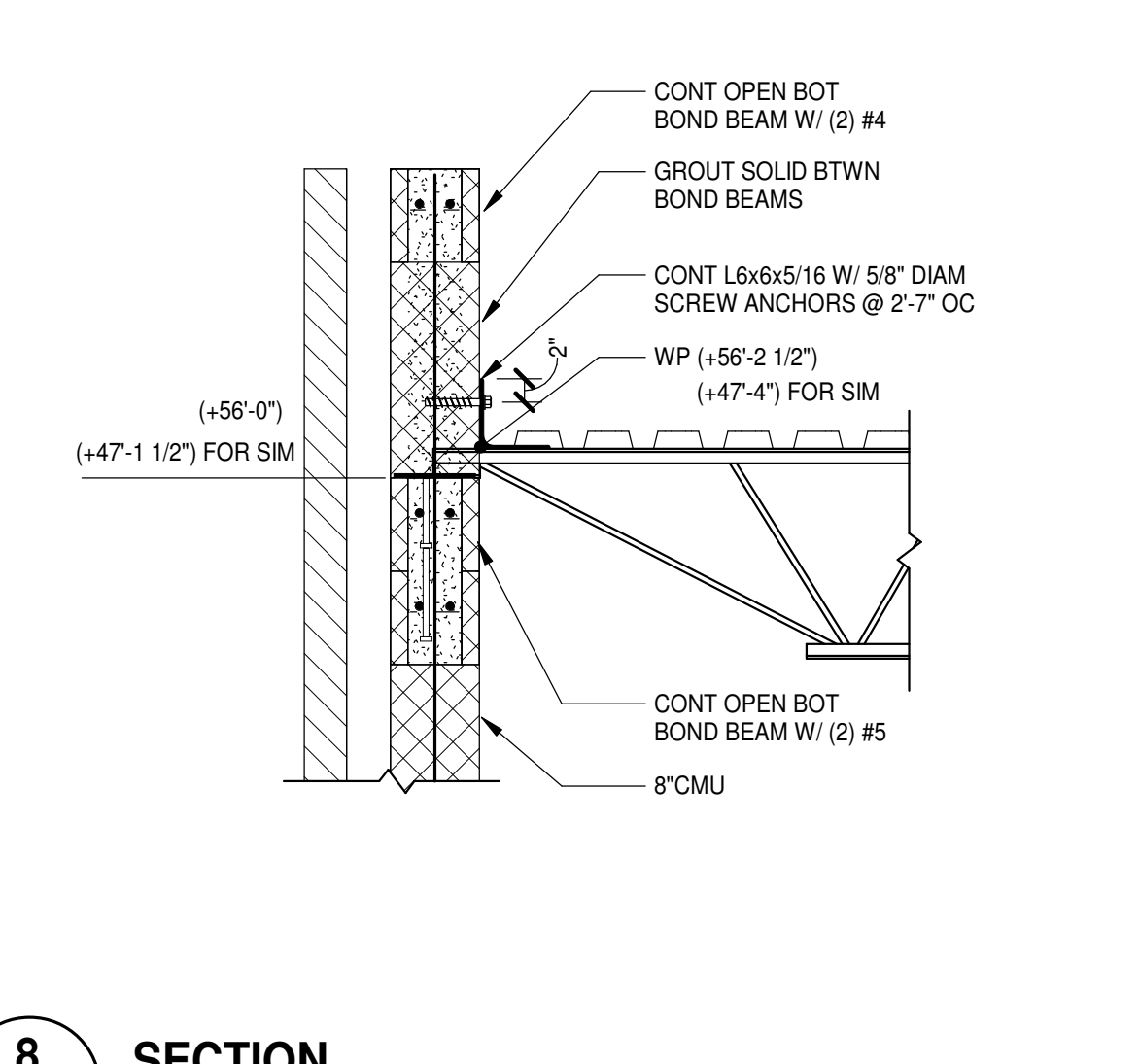
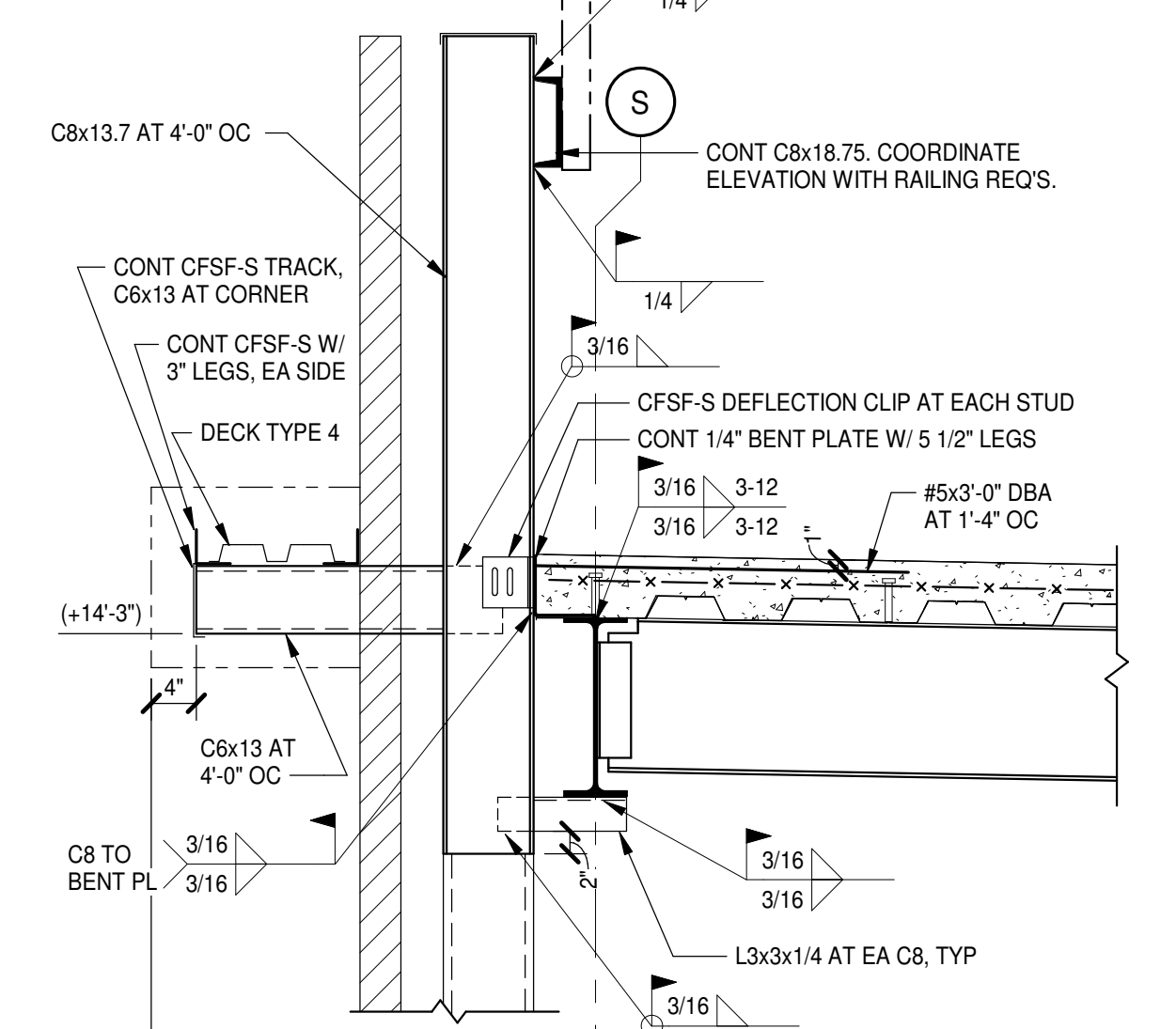
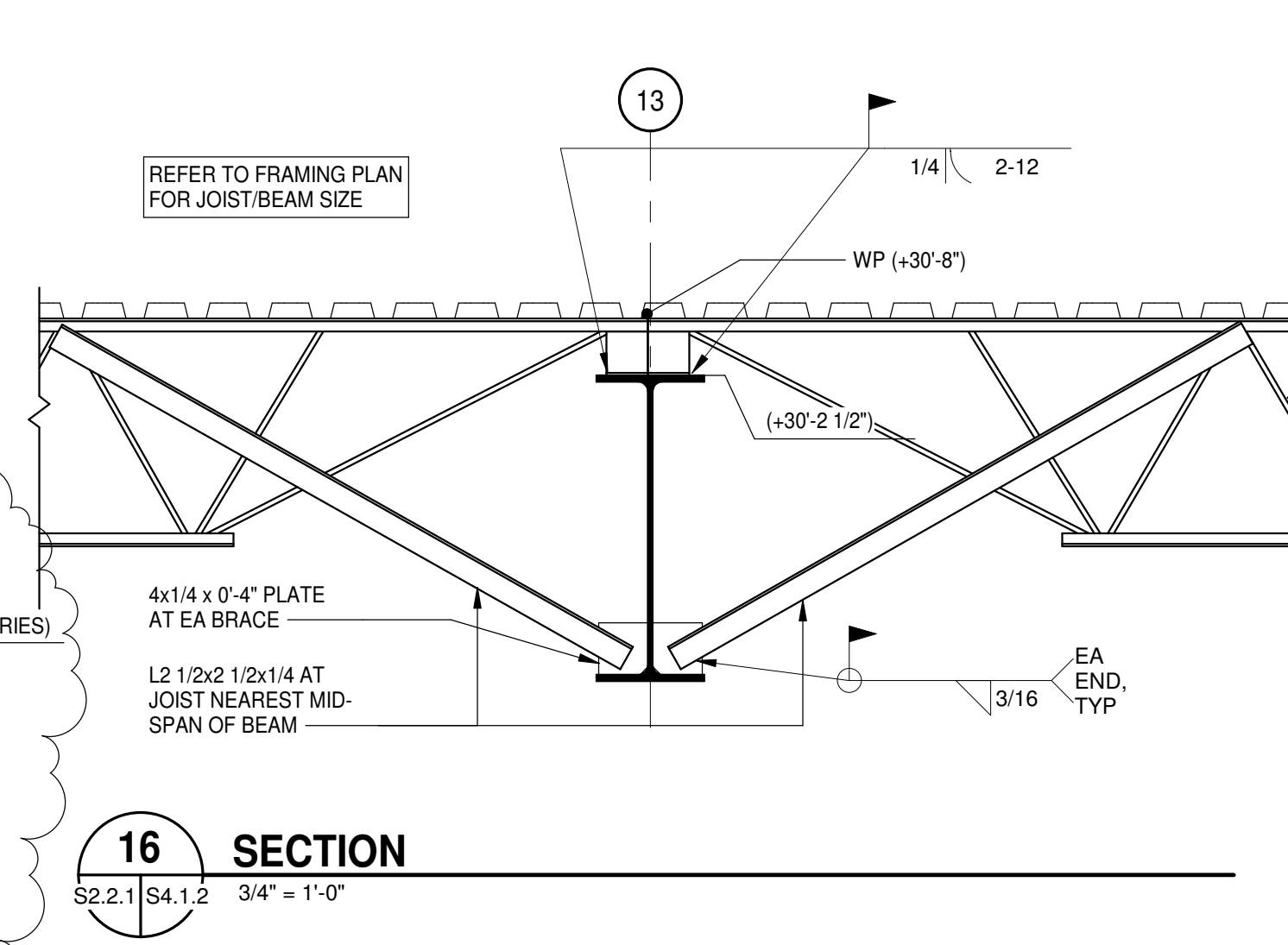
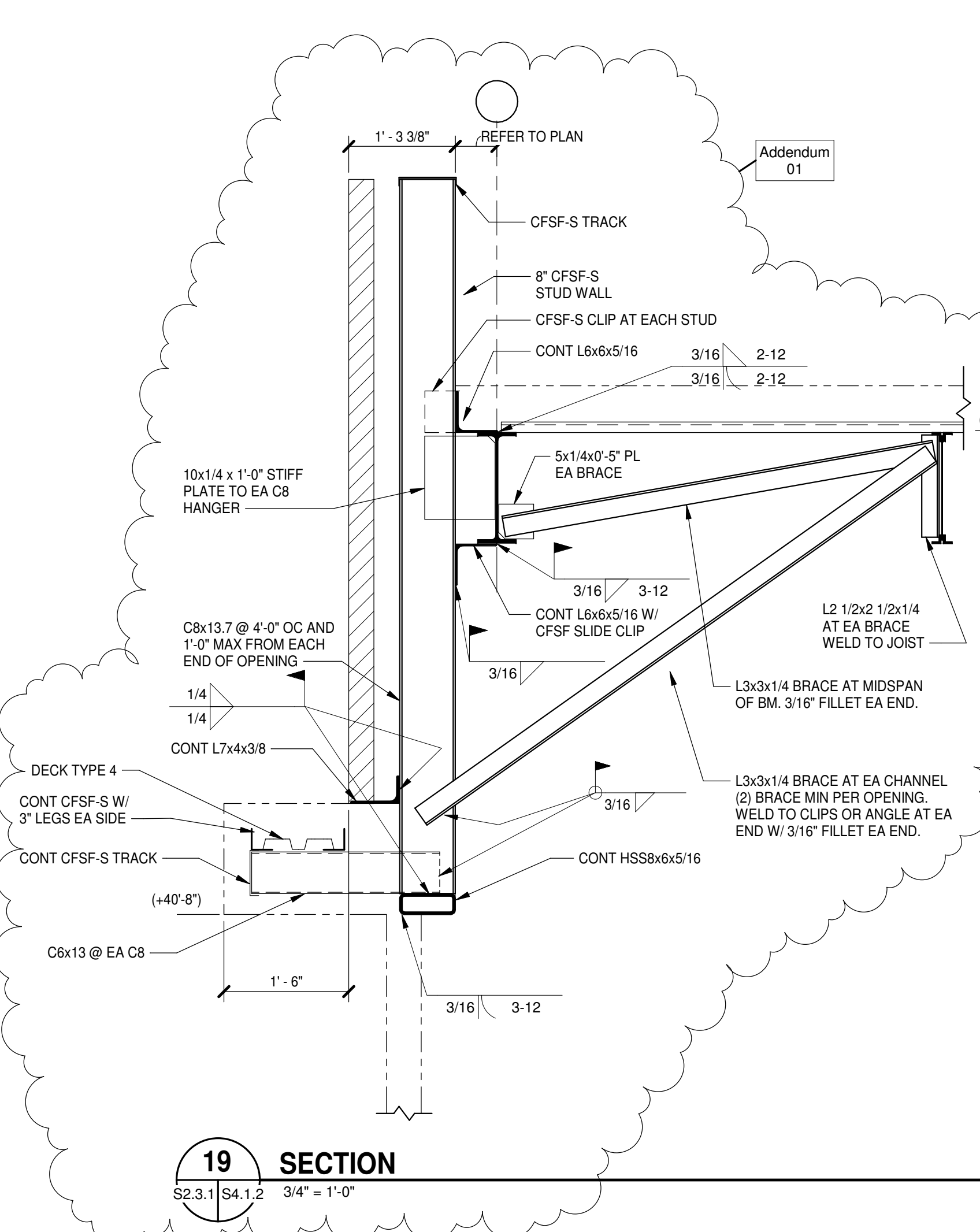
**9 SECTION**  
 S2.1.1 | S4.1.1 | 3/4" = 1'-0"



**5 SECTION**  
 S2.1.1 | S4.1.1 | 3/4" = 1'-0"



**1 SECTION**  
 S2.1.1 | S4.1.1 | 3/4" = 1'-0"

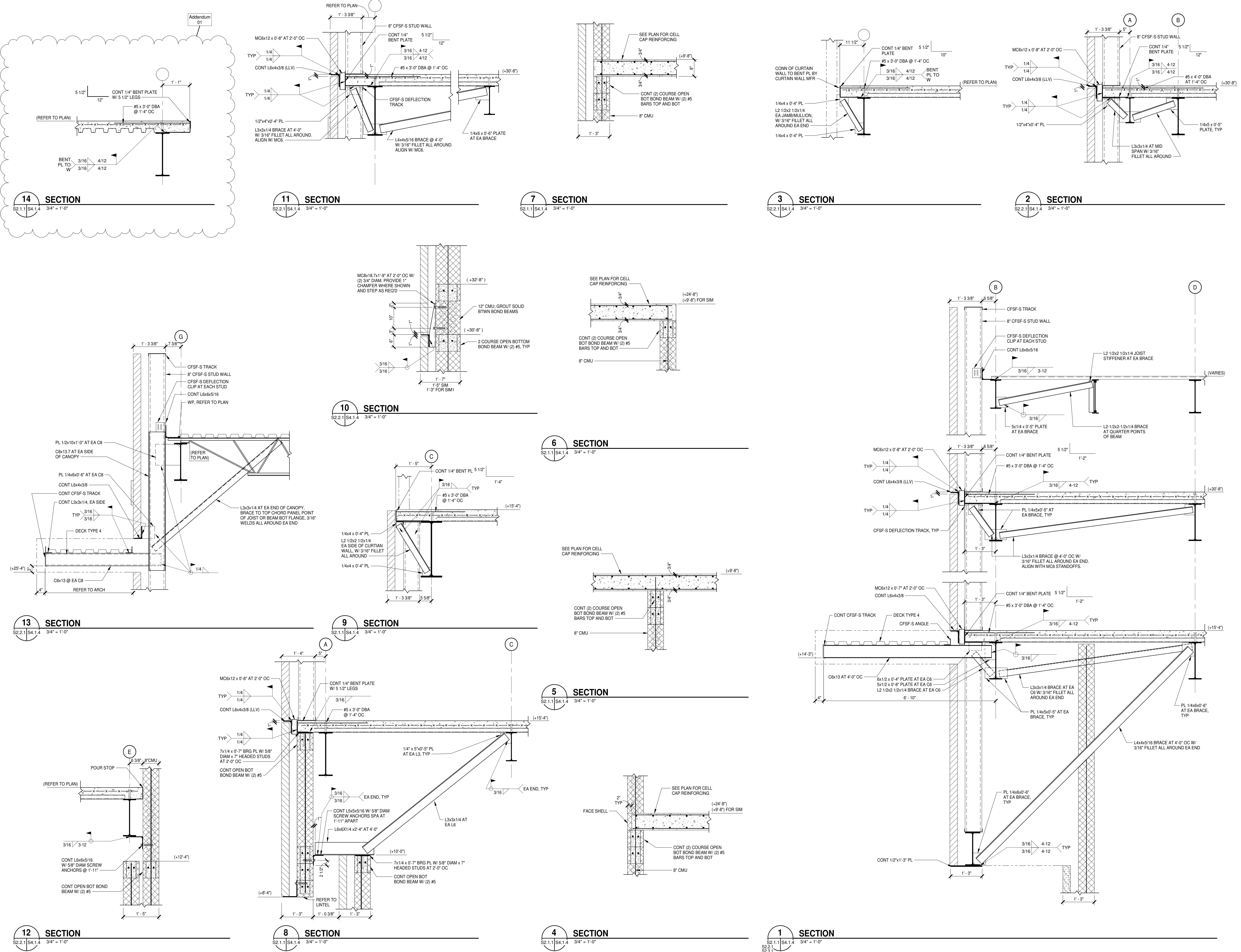


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**14 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**11 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**7 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**3 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**2 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**10 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**6 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**13 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**9 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**5 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**12 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**8 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**4 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"

**1 SECTION**  
 S2.2.1 | S4.1.4 | 3/4" = 1'-0"