

April 17, 2023

ADDENDUM NUMBER ONE (1)

Project: City of Gluckstadt Police Station and Municipal Court  
City of Gluckstadt  
PN: 22093

FROM: Dean Architecture, P.A.  
661 Sunnybrook Road, Suite 140  
Ridgeland, MS 39157  
(601) 939-7717

The following additions, changes, clarifications and/or substitutions to the Project Drawings as indicated, are hereby made a part of the Contract Documents. Acknowledge receipt of this Addendum by inserting its number and date in the Proposal Form where indicated.

Clarifications:

- Item #1:** Bids are due Thursday, May 4, 2023 at 2:00 p.m. Bids will be held securely, unopened, in the City Clerks' Office. Bids will be opened publicly at the next Board Meeting on Tuesday May 9, 2023 at 6:00 p.m.
- Item #2:** All RFI's are to be directed to J. Alan Grant [agrant@deandean.com](mailto:agrant@deandean.com), John Dant [jdant@deandean.com](mailto:jdant@deandean.com), or Teresa Chapman [tchapman@deandean.com](mailto:tchapman@deandean.com).

Architectural Specifications:

- Item #1:** Section 014000 – Quality Requirements, as follows:  
Replace in its entirety.
- Item #2:** Section 042000 – Unit Masonry, as follows:  
Replace in its entirety.
- Item #3:** Section 071113 – Bituminous Dampproofing, as follows:  
Add in its entirety.
- Item #4:** Section 071300 – Sheet Waterproofing, as follows:  
Omit in its entirety – products not required for this project.
- Item #5:** Section 072100 – Thermal Insulation, as follows:  
Replace in its entirety
- Item #6:** Section 123600 – Countertops, as follows:  
Replace in its entirety.

Civil & Structural Specifications:

- Item #7:** Section 024110 – Sitework Demolition, as follows:  
Replace in its entirety.

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**Item #8:** Section 312200 – Grading, as follows:

Replace in its entirety.

Refer to Architectural Drawings:

**Item #1:** General Note: Replace the note “fill cells of CMU (exterior wall) with loose insulating fill” in all locations with “CMU cells filled with factory installed XPS insulation inserts”.

**Item #2:** Sheet A100, replace in its entirety.

**Item #3:** Sheet A101, replace in its entirety.

**Item #4:** Sheet A101.2, replace in its entirety.

**Item #5:** Sheet A104, replace in its entirety.

**Item #6:** Sheet A202, add in its entirety.

**Item #7:** Sheet A502, replace in its entirety.

**Item #8:** Sheet A503, replace in its entirety.

**Item #9:** Sheet A505, replace in its entirety.

**Item #10:** Sheet A506, replace in its entirety.

**Item #11:** Sheet A901, replace in its entirety.

Civil

SEE ATTACHED CIVIL ITEMS PROVIDED BY SPENCER ENGINEERS

Mechanical

SEE ATTACHED MECHANICAL ITEMS PROVIDED BY HESM&A CONSULTING ENGINEERS

Electrical

SEE ATTACHED ELECTRICAL ITEMS PROVIDED BY THE POWER SOURCE

END OF ADDENDUM NUMBER ONE (1)

Dean Architecture, P.A.

  
J. Alan Grant, AIA, Principal



PLEASE ATTACH THIS ADDENDUM TO THE INSIDE FRONT COVER OF EACH SET OF SPECIFICATIONS.

**SECTION 014000**  
**QUALITY REQUIREMENTS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. References and standards.
- B. Submittals.
- C. References and standards.
- D. Control of installation.
- E. Tolerances.
- F. Testing and inspection agencies and services.
- G. Control of installation.
- H. Mock-ups.
- I. Manufacturers' field services.
- J. Defect Assessment.

**1.02 RELATED REQUIREMENTS**

- A. Document 023220 - Available Project Information: Soil investigation data.
- B. Document 007200 - GENERAL CONDITIONS: Inspections and approvals required by public authorities.
- C. Section 013000 - Administrative Requirements: Submittal procedures.
- D. Section 016000 - PRODUCT REQUIREMENTS: Requirements for material and product quality.

**1.03 REFERENCE STANDARDS**

- A. ASTM C1021 - Standard Practice for Laboratories Engaged in Testing of Building Sealants; 2008 (Reapproved 2014).
- B. ASTM C1077 - Standard Practice for Laboratories Testing Concrete and Concrete Aggregates for Use in Construction and Criteria for Laboratory Evaluation; 2014.
- C. ASTM C1093 - Standard Practice for Accreditation of Testing Agencies for Masonry; 2013.
- D. ASTM D3740 - Standard Practice for Minimum Requirements for Agencies Engaged in the Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction; 2012a.
- E. ASTM E329 - Standard Specification for Agencies Engaged in Construction Inspection and/or Testing; 2014a.
- F. ASTM E543 - Standard Specification for Agencies Performing Nondestructive Testing; 2013.
- G. ASTM E 548 - Standard Guide for General Criteria used for Evaluating Laboratory Competence; 1994.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Design Data: Submit for Architect's knowledge as contract administrator for the limited purpose of assessing conformance with information given and the design concept expressed in the contract documents, or for Owner's information.
- C. Test Reports: After each test/inspection, promptly submit two copies of report to Architect and to Contractor.
  - 1. Include:
    - a. Date issued.
    - b. Project title and number.
    - c. Name of inspector.

- d. Date and time of sampling or inspection.
  - e. Identification of product and specifications section.
  - f. Location in the Project.
  - g. Type of test/inspection.
  - h. Date of test/inspection.
  - i. Results of test/inspection.
  - j. Conformance with Contract Documents.
  - k. When requested by Architect, provide interpretation of results.
- D. Certificates: When specified in individual specification sections, submit certification by the manufacturer and Contractor or installation/application subcontractor to Architect, in quantities specified for Product Data.
- 1. Indicate material or product conforms to or exceeds specified requirements. Submit supporting reference data, affidavits, and certifications as appropriate.
  - 2. Certificates may be recent or previous test results on material or product, but must be acceptable to Architect.
- E. Manufacturer's Instructions: When specified in individual specification sections, submit printed instructions for delivery, storage, assembly, installation, start-up, adjusting, and finishing, for the Owner's information. Indicate special procedures, perimeter conditions requiring special attention, and special environmental criteria required for application or installation.

#### 1.05 REFERENCES AND STANDARDS

- A. For products and workmanship specified by reference to a document or documents not included in the Project Manual, also referred to as reference standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. Conform to reference standard of date of issue current on date of Contract Documents, except where a specific date is established by applicable code.
- C. Obtain copies of standards where required by product specification sections.
- D. Maintain copy at project site during submittals, planning, and progress of the specific work, until Substantial Completion.
- E. Should specified reference standards conflict with Contract Documents, request clarification from Architect before proceeding.
- F. Neither the contractual relationships, duties, or responsibilities of the parties in Contract nor those of Architect shall be altered from the Contract Documents by mention or inference otherwise in any reference document.

#### 1.06 TESTING AND INSPECTION AGENCIES AND SERVICES

- A. Contractor shall employ and pay for services of an approved independent testing agency to perform specified testing.
  - 1. **Contractor provided testing shall include special inspections and testing identified in the Structural portions of the Contract Documents as "By Owner"**
- B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.
- C. Contractor Employed Agency:
  - 1. Testing agency: Comply with requirements of ASTM E329, ASTM E543, ASTM C1021, ASTM C1077, ASTM C1093, and ASTM D3740.
  - 2. Laboratory: Authorized to operate in State in which Project is located.
  - 3. Laboratory Staff: Maintain a full time registered Engineer on staff to review services.
  - 4. Testing Equipment: Calibrated at reasonable intervals either by NIST or using an NIST established Measurement Assurance Program, under a laboratory measurement quality assurance program.

## **PART 2 PRODUCTS - NOT USED**

## **PART 3 EXECUTION**

### **3.01 CONTROL OF INSTALLATION**

- A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.
- B. Comply with manufacturers' instructions, including each step in sequence.
- C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.
- D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.
- E. Have Work performed by persons qualified to produce required and specified quality.
- F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.
- G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

### **3.02 MOCK-UPS**

- A. Exterior Wall Mock-up: GC shall provide exterior wall mock-up complete with metal stud framing, sheathing board, weather barrier, masonry anchors, birck veneer, weeps, thru-wall flashing, mortar net, stone and/or stone veneer unit, metal panels, and other exterior wall materials as required, parapet caps and aluminum window section with glazing. Mock-up shall be constructed using specification sections and details for components listed above. Mock-up shall contain an inside and outside corner complete with control joint for use in selecting sealant joint color. Construct the Mock Wall as indicated in the drawings and specifications.
- B. Protect mock-up throughout construction.
- C. Construct mock-up to face south and locate in an area easily accessibly by Owner and Architect.
- D. Tests shall be performed under provisions identified in this section and identified in the respective product specification sections.
- E. Assemble and erect specified items with specified attachment and anchorage devices, flashings, seals, and finishes.
- F. Obtain Architect's approval of mock-ups before starting work, fabrication, or construction.
  - 1. Architect will issue written comments within seven (7) working days of initial review and each subsequent follow up review of each mock-up.
- G. Architect will use accepted mock-ups as a comparison standard for the remaining Work.

### **3.03 TOLERANCES**

- A. Monitor fabrication and installation tolerance control of products to produce acceptable Work. Do not permit tolerances to accumulate.
- B. Comply with manufacturers' tolerances. Should manufacturers' tolerances conflict with Contract Documents, request clarification from Architect before proceeding.
- C. Adjust products to appropriate dimensions; position before securing products in place.

### **3.04 TESTING AND INSPECTION**

- A. See individual specification sections for testing required.
- B. Testing Agency Duties:
  - 1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.

2. Perform specified sampling and testing of products in accordance with specified standards.
  3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
  4. Promptly notify Architect and Contractor of observed irregularities or non-conformance of Work or products.
  5. Perform additional tests and inspections required by Architect.
  6. Submit reports of all tests/inspections specified.
- C. Limits on Testing/Inspection Agency Authority:
1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
  2. Agency may not approve or accept any portion of the Work.
  3. Agency may not assume any duties of Contractor.
  4. Agency has no authority to stop the Work.
- D. Contractor Responsibilities:
1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
  2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.
  3. Provide incidental labor and facilities:
    - a. To provide access to Work to be tested/inspected.
    - b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
    - c. To facilitate tests/inspections.
    - d. To provide storage and curing of test samples.
  4. Notify Architect and laboratory 24 hours prior to expected time for operations requiring testing/inspection services.
  5. Employ services of an independent qualified testing laboratory and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
  6. Arrange with Owner's agency and pay for additional samples, tests, and inspections required by Contractor beyond specified requirements.
- E. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Architect.
- F. Re-testing required because of non-conformance to specified requirements shall be paid for by Contractor.
- G. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Architect. Payment for re testing will be charged to the Contractor by deducting testing charges from the Contract Price.

### **3.05 MANUFACTURERS' FIELD SERVICES**

- A. When specified in individual specification sections, require material or product suppliers or manufacturers to provide qualified staff personnel to observe site conditions, conditions of surfaces and installation, quality of workmanship, start-up of equipment, test, adjust and balance of equipment as applicable, and to initiate instructions when necessary.
- B. Report observations and site decisions or instructions given to applicators or installers that are supplemental or contrary to manufacturers' written instructions.

### **3.06 DEFECT ASSESSMENT**

- A. Replace Work or portions of the Work not conforming to specified requirements.

**END OF SECTION**

**SECTION 024110**  
**SITWORK DEMOLITION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Remove asphalt and concrete paving, concrete curb and gutter, concrete sidewalks and steps, as shown on the demolition plan.
- B. Remove other items as shown on the sitework demolition plan.
- C. Relocate gas line and water line as shown on the demolition plan.

**1.02 RELATED SECTIONS**

- A. Section 312200 - Grading.

**1.03 REGULATORY REQUIREMENTS**

- A. Conform to applicable code and ordinances for disposal of debris.
- B. Coordinate demolition work with utility companies.
- C. Conform to applicable regulatory procedures when discovering hazardous or contaminated materials.
- D. Test soils around buried tanks for contamination.

**PART 2 PRODUCTS**

Not Used.

**PART 3 EXECUTION**

**3.01 PROTECTION**

- A. Locate, identify, and protect utilities that remain from damage.
- B. Protect trees, plant growth, and features designated to remain.
- C. Protect bench marks from damage or displacement.
- D. Protect existing structures and other existing construction which are not to be demolished.

**3.02 EXECUTION**

- A. Demolish indicated structures and appurtenances in orderly and careful manner.
- B. Cease operations and notify Engineer immediately if existing structure or utilities appear to be endangered. Notify Engineer of any unknown utilities that are discovered.
- C. Care shall be taken to protect all items that are to remain. Items removed or destroyed that were to remain shall be replaced at the expense of the Contractor.
- D. Items to be relocated shall be carefully removed and stored until it is needed for new construction.

**3.03 DISPOSAL**

- A. The Contractor shall make a reasonable effort to channel merchantable material into the commercial market to make beneficial use of materials resulting from demolition operations.
- B. Except where noted otherwise, immediately remove demolished material from site to a site disposal area furnished by the Contractor. Such disposal shall comply with all applicable federal, state and local laws.
- C. Backfill areas excavated and open pits and holes caused as a result of demolition.
- D. Rough grade to drain and compact areas affected by demolition.

**END OF SECTION**

**SECTION 042000**  
**UNIT MASONRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Concrete block.
- B. Facing Brick.
- C. Mortar and grout.
- D. Reinforcement and anchorage.
- E. Flashings.
- F. Accessories.

**1.02 RELATED REQUIREMENTS**

- A. Section 055000 - Metal Fabrications: Loose steel lintels.
- B. Section 061000 - Rough Carpentry: Nailing strips built into masonry.
- C. Section 076200 - SHEET METAL FLASHING AND TRIM: Through-wall masonry flashings.
- D. Section 078400 - Firestopping: Firestopping at penetrations of fire-rated masonry and at top of fire-rated walls.
- E. Section 079005 - Joint Sealants: Sealing control and expansion joints.
- F. Section 079005 - Joint Sealers: Backing rod and sealant at control and expansion joints.

**1.03 PRICE AND PAYMENT PROCEDURES**

- A. See Section 012100 - ALLOWANCES, for cash allowances affecting this section.

**1.04 REFERENCE STANDARDS**

- A. ACI 530/530.1/ERTA - Building Code Requirements and Specification for Masonry Structures and Related Commentaries; 2011.
- B. ACI 530.1/ASCE 6/TMS 602 - Specification For Masonry Structures; American Concrete Institute International; 2008.
- C. ASTM A82/A82M - Standard Specification for Steel Wire, Plain, for Concrete Reinforcement; 2007.
- D. ASTM A153/A153M - Standard Specification for Zinc Coating (Hot-Dip) on Iron and Steel Hardware; 2009.
- E. ASTM A641/A641M - Standard Specification for Zinc-Coated (Galvanized) Carbon Steel Wire; 2009a (Reapproved 2014).
- F. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2015.
- G. ASTM C90 - Standard Specification for Loadbearing Concrete Masonry Units; 2014.
- H. ASTM C91/C91M - Standard Specification for Masonry Cement; 2012.
- I. ASTM C129 - Standard Specification for Nonloadbearing Concrete Masonry Units; 2011.
- J. ASTM C144 - Standard Specification for Aggregate for Masonry Mortar; 2011.
- K. ASTM C150/C150M - Standard Specification for Portland Cement; 2015.
- L. ASTM C207 - Standard Specification for Hydrated Lime for Masonry Purposes; 2006 (Reapproved 2011).
- M. ASTM C216 - Standard Specification for Facing Brick (Solid Masonry Units Made From Clay or Shale); 2014.
- N. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2014a.
- O. ASTM C404 - Standard Specification for Aggregates for Masonry Grout; 2011.

- P. ASTM C476 - Standard Specification for Grout for Masonry; 2010.
- Q. ASTM D226/D226M - Standard Specification for Asphalt-Saturated Organic Felt Used in Roofing and Waterproofing; 2009.
- R. TMS 402/602 - Building Code Requirements and Specification for Masonry Structures; 2016.
- S. IMIABC (CW) - Recommended Practices & Guide Specifications for Cold Weather Masonry Construction; International Masonry Industry All-Weather Council; 1993.
- T. IMIABC (HW) - Recommended Practices & Guide Specifications for Hot Weather Masonry Construction; International Masonry Industry All-Weather Council; current edition.

#### **1.05 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data for masonry units, fabricated wire reinforcement, and mortar.
- C. Samples: Submit four samples of facing brick units to illustrate color, texture, and extremes of color range.
- D. Manufacturer's Certificate: Certify that masonry units meet or exceed specified requirements.

#### **1.06 QUALITY ASSURANCE**

- A. Comply with provisions of ACI 530/530.1/ERTA, except where exceeded by requirements of Contract Documents.

#### **1.07 MOCK-UP**

- A. Work of this section to be included in the required mock-up wall as specified in Section 014000 - Quality Requirements.
- B. Locate where directed. Locate mock up to receive Southern sun exposure for proper viewing and approval.
- C. Approved mock-up shall remain until final acceptance of the project and shall serve as standard of quality for all masonry work.
- D. Mock-up may not remain as part of the Work.

#### **1.08 PRE-INSTALLATION MEETING**

- A. Convene one week before starting work of this section.

#### **1.09 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver, handle, and store masonry units by means that will prevent mechanical damage and contamination by other materials.

#### **1.10 ENVIRONMENTAL REQUIREMENTS**

- A. Cold and Hot Weather Requirements: Comply with requirements of ACI 530.1/ASCE 6/TMS 602 or applicable building code, whichever is more stringent.
- B. Cold Weather Requirements: Comply with recommendations of IMIABC (CW).
- C. Hot Weather Requirements: Comply with IMIABC (HW).

### **PART 2 PRODUCTS**

#### **2.01 CONCRETE MASONRY UNITS**

- A. Concrete Block: Comply with referenced standards and as follows:
  - 1. Size: Standard units with nominal face dimensions of 16 by 8 inches (400 by 200 mm) and nominal depths as indicated on drawings for specific locations.
  - 2. Load-Bearing Units: ASTM C90, normal weight.
    - a. Hollow block, as indicated.
    - b. Exposed faces: Manufacturer's standard color and texture for standard units with special color and texture where indicated.
  - 3. Non-Loadbearing Units: ASTM C129.
    - a. Hollow block.

4. Standard Units with Factory-Installed Insulation Inserts: ASTM C90, normal weight.
  - a. Size: Standard units with nominal face dimensions of 16 by 8 inches (400 by 200 mm) and nominal depth of 8 inches (200 mm).
  - b. Insulation Type: Manufacturer's standard expanded polystyrene (XPS).
  - c. Locations: As indicated in drawings.

## 2.02 BRICK UNITS

- A. Manufacturers: Basis of Design: Watson town Brick Dark Grey Wire Cut as supplied by Old South Brick; 601-366-8463
  1. Watson town Brick; [www.watson town brick.com](http://www.watson town brick.com)
  2. Cherokee Brick and Tile Company; [www.cherokeebrick.com](http://www.cherokeebrick.com)
  3. Columbus Brick: [www.columbusbrick.com](http://www.columbusbrick.com)
  4. Meridian Brick LLC; : [www.meridianbrick.com](http://www.meridianbrick.com)
  5. Substitutions: See section 016000 - Product requirements.
- B. Facing Brick: ASTM C216, Type FBX, Grade SW.
  1. Color and texture: Basis of Design: Watson town Brick Dark Grey Wire Cut
    - a. Brick Type: Architectural Wire Cut
    - b. Mortar Color: To be selected by architect from manufacturer's full range of colored mortar.
  2. Nominal size: As indicated on drawings.
  3. Locations: As indicated on drawings.
  4. Special shapes: Molded units as required by conditions indicated, unless standard units can be sawn to produce equivalent effect.
  5. Color range, shape, size, and texture of brick is to be that of the approved mock wall. Mock wall must be approved before brick is applied to exterior of building.
  6. Sub-contractor will be required to cull all brick not meeting the appearance of the approved mock wall.

## 2.03 MORTAR AND GROUT MATERIALS

- A. Masonry Cement: ASTM C91/C91M, Type N.
  1. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.
- B. Portland Cement: ASTM C150/C150M, Type I; color as required to produce approved color sample.
  1. Hydrated Lime: ASTM C207, Type S.
  2. Mortar Aggregate: ASTM C144.
  3. Grout Aggregate: ASTM C404.
- C. Water: Clean and potable.

## 2.04 REINFORCEMENT AND ANCHORAGE

- A. Manufacturers:
  1. Dur-O-Wal: [www.dur-o-wal.com](http://www.dur-o-wal.com).
  2. Heckmann Building Products, Inc: [www.heckmannbuildingprods.com](http://www.heckmannbuildingprods.com).
  3. Hohmann & Barnard, Inc: [www.h-b.com](http://www.h-b.com).
  4. WIRE-BOND; [www.wirebond.com/#sle](http://www.wirebond.com/#sle).
- B. Single Wythe Joint Reinforcement: Truss or ladder type; ASTM A1064/A1064M steel wire, mill galvanized to ASTM A641/A641M, Class 3; 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage on each exposure.
- C. Multiple Wythe Joint Reinforcement: Truss type; fabricated with moisture drip; ASTM A1064/A1064M steel wire, hot dip galvanized after fabrication to ASTM A153/153M, Class B; 0.1483 inch (3.8 mm) side rods with 0.1483 inch (3.8 mm) cross rods; width as required to provide not more than 1 inch (25 mm) and not less than 1/2 inch (13 mm) of mortar coverage on each exposure.

- D. Masonry Veneer Anchors: 2-piece anchors that permit differential movement between masonry veneer and structural backup, hot dip galvanized to ASTM A153/A153M, Class B.
1. Anchor plates: Not less than 0.075 inch (1.91 mm) thick, designed for fastening to structural backup through sheathing by two fasteners; provide design with legs that penetrate sheathing and insulation to provide positive anchorage.
  2. Wire ties: Triangular shape, 0.1875 inch (4.75 mm) thick.
  3. Vertical adjustment: Not less than 3-1/2 inches (89 mm).

## 2.05 FLASHINGS

- A. Flexible Membrane Through-Wall Flashing
1. Product: Perm-A-Barrier self adhesive flexible flashing.
  2. Manufacturer: Grace Construction Products; [www.grace.com](http://www.grace.com)
  3. Description: Min. 40 Mil thick membrane comprised of 0.8mm (0.032 in) of self-adhesive rubberized asphalt integrally bonded to 0.2mm (0.008 in) of cross-laminated, high-density polyethylene film. Membrane shall be interleaved with disposable silicone-coated release paper until installed.
  4. Performance Requirements:
    - a. Water Vapor Transmission, ASTM E 96, Method B: 2.9 ng/m<sup>2</sup>sPa (0.05 perms) max.
    - b. Water Absorption, ASTM D 570: max. 0.1% by weight
    - c. Puncture Resistance, ASTM E 154: 356 N (80 lbs.) min.
    - d. Tear Resistance
      - 1) Initiation ASTM D 1004: min. 58 N (13.0 lbs.) M.D.
      - 2) Propagation ASTM D 1938: min. 40 N (9.0 lbs.) M.D.
    - e. Lap Adhesion at -4°C (25°F), ASTM D 1876: 880 N/m (5.0 lbs./in.) of width
    - f. Low Temperature Flexibility, ASTM D 1970: Unaffected to -43°C (-45°F)
    - g. Tensile Strength, ASTM D 412, Die C Modified: min. 5.5 MPa (800 psi)
    - h. Elongation, Ultimate Failure of Rubberized Asphalt, ASTM D412, Die C: min. 200%
  5. Locations: As noted in drawings.
- B. Copper/Kraft Paper Flashings: 3 oz/sq ft (915 g/sq m) sheet copper bonded to fiber reinforced asphalt treated Kraft paper.
1. Manufacturers:
    - a. Hohmann & Barnard, Inc; C-Kraft Duplex: [www.h-b.com/#sle](http://www.h-b.com/#sle).
    - b. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.
- C. Flashing Sealant/Adhesives: Silicone, polyurethane, or silyl-terminated polyether/polyurethane or other type required or recommended by flashing manufacturer; type capable of adhering to type of flashing used.

## 2.06 ACCESSORIES

- A. Preformed Control Joints: Rubber material. Provide with corner and tee accessories, fused joints.
1. Manufacturers:
    - a. Dur-O-Wal: [www.dur-o-wal.com](http://www.dur-o-wal.com).
    - b. Heckmann Building Products, Inc: [www.heckmannbuildingprods.com](http://www.heckmannbuildingprods.com).
    - c. Hohmann & Barnard, Inc: [www.h-b.com/#sle](http://www.h-b.com/#sle).
    - d. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.
- B. Cavity Mortar Control: Semi-rigid polyethylene or polyester mesh panels, sized to thickness of wall cavity, and designed to prevent mortar droppings from clogging weeps and cavity vents and allow proper cavity drainage.
1. Mortar Diverter: Semi-rigid mesh designed for installation at flashing locations.
    - a. Manufacturers:
      - 1) Hohmann & Barnard, Inc.: [www.h-b.com](http://www.h-b.com)
      - 2) Mortar Net Solutions; : [www.mortarnet.com](http://www.mortarnet.com)
      - 3) Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

- b. Locations: As indicated in drawings.
- C. Building Paper: ASTM D226/D226M, Type I ("No.15") asphalt felt.
- D. Nailing Strips: Preservative treated softwood, as specified in Section 061000.
- E. Termination Bars: Stainless steel; compatible with membrane and adhesives.
  - 1. Basis of Design: T-1 termination bar by Hohmann & Barnard, Inc.
- F. Weeps: Type: Polyester Mesh
- G. Flashing Corners: Inside corner, outside corners, and end dams as required and compatible with copper flashing. Installed per manufacturer's installation instructions.
  - 1. Basis of Design: Corners and End Dams by Hohmann & Barnard, Inc.
- H. Cleaning Solution: Non-acidic, not harmful to masonry work or adjacent materials.

## **2.07 MORTAR AND GROUT MIXING**

- A. Mortar for Unit Masonry: ASTM C270, using the Proportion Specification.
  - 1. Masonry below grade and in contact with earth: Type S.
  - 2. Exterior, loadbearing masonry: Type N.
  - 3. Exterior, non-loadbearing masonry: Type N.
  - 4. Interior, loadbearing masonry: Type N.
  - 5. Interior, non-loadbearing masonry: Type N.
- B. Colored Mortar: Proportion selected pigments and other ingredients to match Architect's sample, without exceeding manufacturer's recommended pigment-to-cement ratio.
- C. Grout: ASTM C476; consistency required to fill completely volumes indicated for grouting; fine grout for spaces with smallest horizontal dimension of 2 inches (50 mm) or less; coarse grout for spaces with smallest horizontal dimension greater than 2 inches (50 mm).
- D. Mixing: Use mechanical batch mixer and comply with referenced standards.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that field conditions are acceptable and are ready to receive masonry.
- B. Verify that related items provided under other sections are properly sized and located.
- C. Verify that built-in items are in proper location, and ready for roughing into masonry work.

### **3.02 PREPARATION**

- A. Direct and coordinate placement of metal anchors supplied for installation under other sections.
- B. Provide temporary bracing during installation of masonry work. Maintain in place until building structure provides permanent bracing.

### **3.03 COURSING**

- A. Establish lines, levels, and coursing indicated. Protect from displacement.
- B. Maintain masonry courses to uniform dimension. Form vertical and horizontal joints of uniform thickness.
- C. Concrete Masonry Units:
  - 1. Bond: Running.
  - 2. Coursing: One unit and one mortar joint to equal 8 inches (200 mm).
  - 3. Mortar Joints: Concave.
- D. Brick Units:
  - 1. Bond: As indicated for different locations.
  - 2. Coursing: Three units and three mortar joints to equal 8 inches (200 mm).
  - 3. Mortar Joints: Concave.

### **3.04 PLACING AND BONDING**

- A. Lay solid masonry units in full bed of mortar, with full head joints, uniformly jointed with other work.
- B. Lay hollow masonry units with face shell bedding on head and bed joints.
- C. Buttering corners of joints or excessive furrowing of mortar joints is not permitted.
- D. Remove excess mortar and mortar smears as work progresses.
- E. Interlock intersections and external corners.
- F. Do not shift or tap masonry units after mortar has achieved initial set. Where adjustment must be made, remove mortar and replace.
- G. Perform job site cutting of masonry units with proper tools to provide straight, clean, unchipped edges. Prevent broken masonry unit corners or edges.
- H. Isolate top joint of masonry partitions from horizontal structural framing members and slabs or decks with compressible joint filler.

### **3.05 CAVITY MORTAR CONTROL**

- A. Do not permit mortar to drop or accumulate into cavity air space or to plug weep/cavity vents.
- B. For cavity walls, build inner wythe ahead of outer wythe to accommodate accessories.
- C. Install cavity mortar diverter at base of cavity and at other flashing locations as recommended by manufacturer to prevent mortar droppings from blocking weep/cavity vents.

### **3.06 REINFORCEMENT AND ANCHORAGE - MASONRY VENEER**

- A. Install horizontal joint reinforcement 16 inches (400 mm) on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of opening.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches (150 mm).
- E. Masonry Back-Up: Embed anchors to bond veneer at maximum 16 inches (400 mm) on center vertically and 36 inches (900 mm) on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches (200 mm) on center.
- F. Stud Back-Up: Secure veneer anchors to stud framed back-up and embed into masonry veneer at maximum 16 inches (400 mm) on center vertically and 24 inches (600 mm) on center horizontally. Place additional anchors at perimeter of openings and ends of panels, so maximum spacing of anchors is 8 inches (200 mm) on center.

### **3.07 REINFORCEMENT AND ANCHORAGES - CAVITY WALL MASONRY**

- A. Install horizontal joint reinforcement 16 inches (400 mm) on center.
- B. Place masonry joint reinforcement in first and second horizontal joints above and below openings. Extend minimum 16 inches (400 mm) each side of openings.
- C. Place continuous joint reinforcement in first and second joint below top of walls.
- D. Lap joint reinforcement ends minimum 6 inches (150 mm).

### **3.08 LINTELS**

- A. Install loose steel lintels over openings.
- B. Install reinforced unit masonry lintels over openings where steel or precast concrete lintels are not scheduled. Refer to Structural Drawings for additional Lintel Schedule and requirements.
  - 1. Coordinate opening sizes with lintel requirements of structural drawings and specifications.
  - 2. Do not splice reinforcing bars.
  - 3. Support and secure reinforcing bars from displacement. Maintain position within 1/2 inch (13 mm) of dimensioned position.

4. Place and consolidate grout fill without displacing reinforcing.
5. Allow masonry lintels to attain specified strength before removing temporary supports.

### **3.09 GROUTED COMPONENTS**

- A. At bearing locations, fill masonry cores with grout for a minimum 12 inches (300 mm) either side of opening.

### **3.10 CONTROL AND EXPANSION JOINTS**

- A. Do not continue horizontal joint reinforcement through control or expansion joints.
- B. Install preformed control joint device in continuous lengths. Seal butt and corner joints in accordance with manufacturer's instructions.
- C. Size control joint in accordance with Section 079005 for sealant performance.
- D. Form expansion joint as detailed on drawings.

### **3.11 BUILT-IN WORK**

- A. As work progresses, install built-in metal door frames and glazed frames and other items to be built into the work and furnished under other sections.
- B. Install built-in items plumb, level, and true to line.
- C. Bed anchors of metal door and glazed frames in adjacent mortar joints. Fill frame voids solid with grout.
- D. Do not build into masonry construction organic materials that are subject to deterioration.

### **3.12 TOLERANCES**

- A. Maximum Variation From Unit to Adjacent Unit: 1/16 inch (1.6 mm).
- B. Maximum Variation from Plane of Wall: 1/4 inch in 10 ft (6 mm/3 m) and 1/2 inch in 20 ft (13 mm/6 m) or more.
- C. Maximum Variation from Plumb: 1/4 inch (6 mm) per story non-cumulative; 1/2 inch (13 mm) in two stories or more.
- D. Maximum Variation from Level Coursing: 1/8 inch in 3 ft (3 mm/m) and 1/4 inch in 10 ft (6 mm/3 m); 1/2 inch in 30 ft (13 mm/9 m).
- E. Maximum Variation of Mortar Joint Thickness: Head joint, minus 1/4 inch, plus 3/8 inch (minus 6.4 mm, plus 9.5 mm).

### **3.13 CUTTING AND FITTING**

- A. Cut and fit for chases. Coordinate with other sections of work to provide correct size, shape, and location.
- B. Obtain approval prior to cutting or fitting masonry work not indicated or where appearance or strength of masonry work may be impaired.

### **3.14 CLEANING**

- A. Clean soiled surfaces with cleaning solution.

### **3.15 PROTECTION**

- A. Without damaging completed work, provide protective boards at exposed external corners that are subject to damage by construction activities.

**END OF SECTION**

**SECTION 047200**  
**CAST STONE MASONRY**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Architectural cast stone.
- B. Architectural synthetic stone units.
- C. Units required are:
  - 1. Exterior wall units as indicated and detailed in drawings.

**1.02 RELATED REQUIREMENTS**

- A. Section 042000 - Unit Masonry: Installation of cast stone in conjunction with masonry.
- B. Section 079005 - Joint Sealers: Materials and execution methods for sealing soft joints in cast stone work.

**1.03 REFERENCE STANDARDS**

- A. ACI 318 - Building Code Requirements for Structural Concrete and Commentary; 2011.
- B. ASTM A615/A615M - Standard Specification for Deformed and Plain Carbon Steel Bars for Concrete Reinforcement; 2015.
- C. ASTM A767/A767M - Standard Specification for Zinc-Coated (Galvanized) Steel Bars for Concrete Reinforcement; 2009.
- D. ASTM A884/A884M - Standard Specification for Epoxy-Coated Steel Wire and Welded Wire Reinforcement; 2014.
- E. ASTM A1064/A1064M - Standard Specification for Carbon-Steel Wire and Welded Wire Reinforcement, Plain and Deformed, for Concrete; 2015.
- F. ASTM C33/C33M - Standard Specification for Concrete Aggregates; 2013.
- G. ASTM C150/C150M - Standard Specification for Portland Cement; 2015.
- H. ASTM C270 - Standard Specification for Mortar for Unit Masonry; 2014a.
- I. ASTM C494/C494M - Standard Specification for Chemical Admixtures for Concrete; 2019, with Editorial Revision (2022).
- J. ASTM C1364 - Standard Specification for Architectural Cast Stone; 2019.
- K. ICC-ES AC219 - Acceptance Criteria for Exterior Insulation and Finish Systems; 2009.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Test results of cast stone components made previously by the manufacturer.
- C. Shop Drawings: Include elevations, dimensions, layouts, profiles, cross sections, reinforcement, exposed faces, arrangement of joints, anchoring methods, anchors, and piece numbers.
- D. Verification Samples: Pieces of actual cast stone components not less than 6 inches (152 mm) square, illustrating range of color and texture to be anticipated in components furnished for the project.

**1.05 QUALITY ASSURANCE**

- A. Manufacturer Qualifications:
  - 1. A firm with a minimum of 5 years experience producing cast stone of types required for project.
  - 2. Current producer member of the Cast Stone Institute or the Architectural Precast Association.
  - 3. Manufacturer's production facility currently holds a Plant Certification from the Cast Stone Institute or the Architectural Precast Association.

4. Adequate plant capacity to furnish quality, sizes, and quantity of cast stone required without delaying progress of the work.
- B. Installer Qualifications: Company specializing in performing work of the type specified and with at least three years of documented experience.

#### **1.06 MOCK-UP**

- A. Work of this section to be included in the required mock-up wall as specified in Section 014000 - Quality Requirements.
- B. Locate where directed. Locate mock up to receive Southern sun exposure for proper viewing and approval.
- C. Approved mock-up shall remain until final acceptance of the project and shall serve as standard of quality for all masonry work.
- D. Mock-up may not remain as part of the Work.
- E. Provide full size cast stone components for installation in mock-up of exterior wall.

#### **1.07 DELIVERY, STORAGE, AND HANDLING**

- A. Deliver cast stone components secured to shipping pallets and protected from damage and discoloration. Protect corners from damage.
- B. Number each piece individually to match shop drawings and schedule.
- C. Store cast stone components and installation materials in accordance with manufacturer's instructions.
- D. Store cast stone components on pallets with nonstaining, waterproof covers. Ventilate under covers to prevent condensation. Prevent contact with dirt.
- E. Protect cast stone components during handling and installation to prevent chipping, cracking, or other damage.
- F. Store mortar materials where contamination can be avoided.
- G. Schedule and coordinate production and delivery of cast stone components with unit masonry work to optimize on-site inventory and to avoid delaying the work.

### **PART 2 PRODUCTS**

#### **2.01 MANUFACTURERS**

- A. Architectural Cast Stone:
  1. Any current producer member of the Architectural Precast Association.
  2. Any current producer member of the Cast Stone Institute.
  3. Bassco Cast Stone; [www.basscocaststone.com](http://www.basscocaststone.com). 18786 Carters Circle, Elkmont, AL 35620; (256) 732-2228
  4. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.
- B. Architectural Synthetic Stone Units:
  1. Arriscraft Building Stone; [www.arriscraft.com](http://www.arriscraft.com);
    - a. Basis of Design: Renaissance Stone by Arriscraft as provided by Old South Brick.
  2. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

#### **2.02 ARCHITECTURAL CAST STONE**

- A. Cast Stone: Architectural concrete product manufactured to simulate appearance of natural limestone, complying with ASTM C1364.
  1. All Cast Stone to be "wet cast type" as defined by the Cast Stone Institute.
  2. Compressive Strength: As specified in ASTM C1195; calculate strength of pieces to be field cut at 80 percent of uncut piece.
  3. Freeze-Thaw Resistance: Demonstrated by laboratory testing in accordance with ASTM C1364.
  4. Surface Texture: Fine grained texture, with no bugholes, air voids, or other surface blemishes visible from distance of 20 feet (6 meters).

5. Color: Selected by Architect from manufacturer's full range.
  6. Remove cement film from exposed surfaces before packaging for shipment.
- B. Shapes: Provide shapes indicated on drawings.
1. Variation from Any Dimension, Including Bow, Camber, and Twist: Maximum of plus/minus 1/8 inch (3 mm) or length divided by 360, whichever is greater, but not more than 1/4 inch (6 mm).
  2. Unless otherwise indicated on drawings, provide:
    - a. Wash or slope of 1:12 on exterior horizontal surfaces.
    - b. Drips on projecting components, wherever possible.
    - c. Raised fillets at back of sills and at ends to be built in.
- C. Reinforcement: Provide reinforcement as required to withstand handling and structural stresses; comply with ACI 318.

### **2.03 ARCHITECTURAL SYNTHETIC STONE UNITS**

- A. Architectural Synthetic Stone Units: Factory-fabricated, high-density cementitious units made from cement, crushed stone, sand, and polymer reinforced with fiberglass strands; designed to simulate appearance of natural stone.
1. Freeze-Thaw Resistance: Demonstrated by laboratory testing in accordance with ICC-ES AC219.
  2. Surface Texture: Fine grained texture, with no bugholes, air voids, or other surface blemishes visible from distance of 20 feet (6 meters).
  3. Color: Selected by Architect from manufacturer's full range.
  4. Remove cement film from exposed surfaces before packaging for shipment.
- B. Shapes: Provide shapes indicated on drawings.
1. Variation from Any Dimension, Including Bow, Camber, and Twist: Maximum of plus/minus 1/8 inch (3 mm) or length divided by 360, whichever is greater, but not more than 1/4 inch (6 mm).
  2. Unless otherwise indicated on drawings, provide:
    - a. Wash or slope of 1:12 on exterior horizontal surfaces.
    - b. Drips on projecting components, wherever possible.
    - c. Raised fillets at back of sills and at ends to be built in.
- C. Reinforcement: Provide reinforcement as required to withstand handling and structural stresses; comply with ACI 318.

### **2.04 MATERIALS**

- A. Portland Cement: ASTM C150/C150M.
1. For Mortar: Type I or II, except Type III may be used in cold weather.
- B. Coarse Aggregate: ASTM C33/C33M, except for gradation; granite, quartz, or limestone.
- C. Fine Aggregate: ASTM C33/C33M, except for gradation; natural or manufactured sands.
- D. Admixtures: ASTM C494/C494M.
- E. Water: Potable.
- F. Reinforcing Bars: ASTM A615/A615M deformed bars, galvanized.
1. Galvanized in accordance with ASTM A767/A767M, Class I.
- G. Steel Welded Wire Reinforcement: ASTM A1064/A1064M, galvanized or ASTM A884/A884M, epoxy coated.
- H. Embedded Anchors, Dowels, and Inserts: Type 304 stainless steel, of type and size as required for conditions.
- I. Mortar: Portland cement-lime, as specified in Section 040511; do not use masonry cement.
- J. Sealant: As specified in Section 079005.
- K. Cleaner: General-purpose cleaner designed for removing mortar and grout stains, efflorescence, and other construction stains from new masonry surfaces without discoloring or

damaging masonry surfaces; approved for intended use by cast stone manufacturer and by cleaner manufacturer for use on cast stone and adjacent masonry materials.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Examine construction to receive cast stone components. Notify Architect if construction is not acceptable.
- B. Do not begin installation until unacceptable conditions have been corrected.

#### **3.02 INSTALLATION**

- A. Install cast stone components in conjunction with masonry, complying with requirements of Section 042000.
- B. Mechanically anchor cast stone units indicated; set remainder in mortar.
- C. Setting:
  - 1. Drench cast stone components with clear, running water immediately before installation.
  - 2. Set units in a full bed of mortar unless otherwise indicated.
  - 3. Fill vertical joints with mortar.
  - 4. Fill dowel holes and anchor slots completely with mortar or non-shrink grout.

#### **3.03 REPAIR**

- A. Repair chips and other surface damage noticeable when viewed in direct daylight at 10 feet (3 m).
  - 1. Repair with matching touch-up material provided by the manufacturer and in accordance with manufacturer's instructions.
  - 2. Repair methods and results subject to Architect 's approval.
  - 3. Architect and Owner reserve the right to reject all pieces of cast stone that have been damaged.

#### **3.04 CLEANING**

- A. Keep cast stone components clean as work progresses.

#### **3.05 PROTECTION**

- A. Protect completed work from damage.
- B. Clean, repair, or restore damaged or mortar-splashed work to condition of new work.

**END OF SECTION**

**SECTION 071113**  
**BITUMINOUS DAMPPROOFING**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Bituminous dampproofing.
- B. Protection boards - Rigid Insulation.

**1.02 RELATED REQUIREMENTS**

- A. Section 072100 - Thermal Insulation: Rigid insulation board used as protection board.
- B. Section 042000 - Unit Masonry

**1.03 REFERENCE STANDARDS**

- A. ASTM D41/D41M - Standard Specification for Asphalt Primer Used in Roofing, Dampproofing, and Waterproofing; 2011 (Reapproved 2016).
- B. ASTM D1187/D1187M - Standard Specification for Asphalt-Base Emulsions for Use as Protective Coatings for Metal; 1997 (Reapproved 2018).
- C. ASTM D1227 - Standard Specification for Emulsified Asphalt Used as a Protective Coating for Roofing; 2013.
- D. NRCA (WM) - The NRCA Waterproofing Manual; 2005.
- E. NRCA ML104 - The NRCA Roofing and Waterproofing Manual; Fifth Edition, with interim updates.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide properties of primer, bitumen, and mastics.

**1.05 QUALITY ASSURANCE**

- A. Perform work in accordance with NRCA Roofing and Waterproofing Manual.

**1.06 MOCK-UP**

- A. Work of this section to be included in the required mock-up wall as specified in Section 014000 - Quality Requirements.
- B. Locate where directed. Locate mock up to receive Southern sun exposure for proper viewing and approval.
- C. Approved mock-up shall remain until final acceptance of the project and shall serve as standard of quality for all masonry work.
- D. Mock-up may not remain as part of the Work.

**PART 2 PRODUCTS**

**2.01 MANUFACTURERS**

- A. ChemRex Inc.
- B. Other Acceptable Bituminous Dampproofing Manufacturers:
  - 1. Karnak Corporation: [www.karnakcorp.com](http://www.karnakcorp.com).
  - 2. Mar-Flex Systems, Inc: [www.mar-flex.com/sle](http://www.mar-flex.com/sle).
  - 3. W.R. Meadows, Inc: [www.wrmeadows.com/sle](http://www.wrmeadows.com/sle).
  - 4. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

**2.02 BITUMINOUS DAMPPROOFING**

- A. Bituminous Dampproofing: Cold-applied water-based emulsion; asphalt with mineral colloid or chemical emulsifying agent; with or without fiber reinforcement; asbestos-free; suitable for application on vertical and horizontal surfaces.
  - 1. Composition - Vertical Application: ASTM D1227 Type III or ASTM D1187/D1187M Type I.

2. Composition - Horizontal and Low-Slope Application: ASTM D1227 Type II or III.
  3. VOC Content: Not more than permitted by local, State, and federal regulations.
  4. Applied Thickness: 1/16 inch (1.5 mm), minimum, wet film.
  5. Products:
    - a. W. R. Meadows, Inc; Sealmastic Emulsion Type I (spray-grade):  
[www.wrmeadows.com/#sle](http://www.wrmeadows.com/#sle).
    - b. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.
- B. Primers, Mastics, and Related Materials: Type as recommended by dampproofing manufacturer.

### **2.03 ACCESSORIES**

- A. Protection Board: Rigid insulation specified in Section 072100.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify existing conditions are acceptable prior to starting this work.
- B. Verify substrate surfaces are durable, free of matter detrimental to adhesion or application of dampproofing system.
- C. Verify that items penetrating surfaces to receive dampproofing are securely installed.

### **3.02 APPLICATION**

- A. Prime surfaces in accordance with manufacturer's instructions and NRCA (WM) applicable requirements.
- B. Apply bitumen by spray application or brush application.
- C. Apply bitumen in two coats, continuous and uniform, at a rate of 1 gallon/30 to 35 square feet, per coat.
- D. Seal items watertight with mastic, that project through dampproofing surface.

**END OF SECTION**

**SECTION 072100**  
**THERMAL INSULATION**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Board insulation at cmu block walls.
- B. Batt insulation in exterior wall, ceiling, and roof construction.
- C. Batt insulation for filling perimeter window and door shim spaces and crevices in exterior wall and roof.

**1.02 RELATED REQUIREMENTS**

- A. Section 078400 - Firestopping: Insulation as part of fire-rated through-penetration assemblies.
- B. Section 092116 - Gypsum Board Assemblies: Acoustic insulation inside walls and partitions.

**1.03 REFERENCE STANDARDS**

- A. ASTM C578 - Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation; 2015a.
- B. ASTM C665 - Standard Specification for Mineral-Fiber Blanket Thermal Insulation for Light Frame Construction and Manufactured Housing; 2012.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
- D. ASTM E136 - Standard Test Method for Behavior of Materials in a Vertical Tube Furnace At 750 Degrees C; 2012.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Provide data on product characteristics, performance criteria, and product limitations.

**1.05 MOCK-UP**

- A. Work of this section to be included in the required mock-up wall as specified in Section 014000 - Quality Requirements.
- B. Locate where directed. Locate mock up to receive Southern sun exposure for proper viewing and approval.
- C. Approved mock-up shall remain until final acceptance of the project and shall serve as standard of quality for all masonry work.
- D. Mock-up may not remain as part of the Work.

**1.06 FIELD CONDITIONS**

- A. Do not install insulation adhesives when temperature or weather conditions are detrimental to successful installation.

**PART 2 PRODUCTS**

**2.01 FOAM BOARD INSULATION MATERIALS**

- A. Extruded Polystyrene (XPS) Board Insulation: Comply with ASTM C578 with either natural skin or cut cell surfaces.
  - 1. Flame Spread Index (FSI): Class A - 0 to 25, when tested in accordance with ASTM E84.
  - 2. Smoke Developed Index (SDI): 450 or less, when tested in accordance with ASTM E84.
  - 3. Type and Thermal Resistance, R-value (RSI-value): Type IV, 5.0 (0.88), minimum, per 1 inch (25.4 mm) thickness at 75 degrees F (24 degrees C) mean temperature.
  - 4. Board Edges: Square.
  - 5. Locations: Face of CMU walls in locations indicated in drawings.
  - 6. Products:

- a. Owens Corning Corporation; FOAMULAR Type X Extruded Polystyrene (XPS) Insulation: [www.ocbuildingspec.com/#sle](http://www.ocbuildingspec.com/#sle).
- b. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

## **2.02 BATT INSULATION MATERIALS**

- A. Glass Fiber Batt Insulation: Flexible preformed batt or blanket, complying with ASTM C665; friction fit.
  1. Combustibility: Non-combustible, when tested in accordance with ASTM E136, except for facing, if any.
  2. Formaldehyde Content: Zero.
  3. Interior Walls and Ceilings: R of 11 (\_\_\_\_). Non-thermal Acoustic Insulation for interior locations.
    - a. Thickness: 3 1/2 inch (3-1/2 mm). Interior wall and ceiling locations as indicated in drawings.
  4. Exterior Walls: Thermal Resistance R of 19
    - a. Thickness: 6 inch. Exterior wall locations.
  5. Facing: Unfaced at exterior locations.
  6. Manufacturers:
    - a. CertainTeed Corporation: [www.certainteed.com](http://www.certainteed.com).
    - b. Owens Corning Corp: [www.owenscorning.com](http://www.owenscorning.com).
  7. Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.

## **2.03 ACCESSORIES**

- A. Tape joints of rigid insulation in accordance with roofing and insulation manufacturers' instructions.
- B. Insulation Fasteners: Appropriate for purpose intended and approved by insulation manufacturer.
- C. Nails or Staples: Steel wire; electroplated or galvanized; type and size to suit application.
- D. Adhesive: Type recommended by insulation manufacturer for application.

## **PART 3 EXECUTION**

### **3.01 EXAMINATION**

- A. Verify that substrate, adjacent materials, and insulation materials are dry and that substrates are ready to receive insulation.
- B. Verify substrate surfaces are flat, free of honeycomb, fins, irregularities, or materials or substances that may impede adhesive bond.

### **3.02 BATT INSTALLATION**

- A. Install insulation and vapor retarder in accordance with manufacturer's instructions.
- B. Trim insulation neatly to fit spaces. Insulate miscellaneous gaps and voids.
- C. Fit insulation tightly in cavities and tightly to exterior side of mechanical and electrical services within the plane of the insulation.

**END OF SECTION**

**SECTION 123600  
COUNTERTOPS**

**PART 1 GENERAL**

**1.01 SECTION INCLUDES**

- A. Countertops for architectural cabinet work.

**1.02 RELATED REQUIREMENTS**

- A. Section 064100 - Architectural Wood Casework.

**1.03 REFERENCE STANDARDS**

- A. ANSI A208.2 - Medium Density Fiberboard (MDF) for Interior Applications; 2022.
- B. ASTM A666 - Standard Specification for Annealed or Cold-Worked Austenitic Stainless Steel Sheet, Strip, Plate, and Flat Bar; 2015.
- C. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2015a.
- D. AWI/AWMAC/WI (AWS) - Architectural Woodwork Standards; 2014.
- E. ISFA 2-01 - Classification and Standards for Solid Surfacing Material; 2013.
- F. ISFA 3-01 - Classification and Standards for Quartz Surfacing Material; 2013.
- G. NEMA LD 3 - High-Pressure Decorative Laminates; 2005.

**1.04 SUBMITTALS**

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
  - 1. Preparation instructions and recommendations.
  - 2. Storage and handling requirements and recommendations.
  - 3. Specimen warranty.
- C. Shop Drawings: Complete details of materials and installation; combine with shop drawings of cabinets and casework specified in other sections.
- D. Verification Samples: For each finish product specified, minimum size 6 inches (150 mm) square, representing actual product, color, and patterns.
- E. Test Reports: Chemical resistance testing, showing compliance with specified requirements.
- F. Installation Instructions: Manufacturer's installation instructions and recommendations.
- G. Maintenance Data: Manufacturer's instructions and recommendations for maintenance and repair of countertop surfaces.

**1.05 QUALITY ASSURANCE**

- A. Installer Qualifications: Company specializing in performing work of the type specified in this section, with not less than three years of documented experience.

**1.06 DELIVERY, STORAGE, AND HANDLING**

- A. Store products in manufacturer's unopened packaging until ready for installation.
- B. Store and dispose of solvent-based materials, and materials used with solvent-based materials, in accordance with requirements of local authorities having jurisdiction.

**1.07 FIELD CONDITIONS**

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's absolute limits.

**PART 2 PRODUCTS**

**2.01 COUNTERTOPS**

- A. Solid Surfacing Countertops: Solid surfacing acrylic resin casting .

1. Flat Sheet Thickness: 1/2 inch (12 mm), minimum.
2. Solid Surfacing Resin Castings: Complying with ISFA 2-01 and NEMA LD 3; acrylic resin, mineral filler, and pigments; homogenous, non-porous and capable of being worked and repaired using standard woodworking tools; no surface coating; color and pattern consistent throughout thickness.
  - a. Manufacturers:
    - 1) Corian; www.corian.com
    - 2) Durasein by Relang International LLC, Rosedale, Maryland.
    - 3) Substitutions: See Section 016000 - PRODUCT REQUIREMENTS.
  - b. Surface Burning Characteristics: Flame spread index of 25, maximum; smoke developed index of 450, maximum; when tested in accordance with ASTM E84.
  - c. Finish on Exposed Surfaces: Semi-gloss, gloss rating of 25 to 50.
  - d. Color Schedule:
    - 1) Solid Surface 1 (SS1)
      - (a) Manufacturer: Corian
      - (b) Color: Silverite
      - (c) Location: As indicated in drawings
    - 2) Solid Surface 2 (SS2)
      - (a) Manufacturer: Corian
      - (b) Color: Deep Titanium
      - (c) Location: As indicated in drawings
    - 3) Solid Surface 3 (SS3)
      - (a) Manufacturer: Durasein
      - (b) Color: Blossoming
      - (c) Location: As indicated in drawings
3. Other Components Thickness: 1/2 inch (12 mm), minimum.
4. Back and End Splashes: Same sheet material, square top; minimum 4 inches (102 mm) high.
5. Skirts: As indicated on drawings.
6. Fabricate in accordance with manufacturer's standard requirements.
- B. Stainless Steel Countertops: 1, Type 304, stainless steel sheet; 16 gauge, 0.0625 inch (1.59 mm) nominal sheet thickness.
  1. Finish: 4B satin brushed finish.
  2. Exposed Edge Shape: Bullnose with return; 5/8 inch (16 mm) radius, return to face of case; reinforced with hardwood or steel.
  3. Back and End Splashes: Same material; welded 1/4 inch (6 mm) radius coved joint to countertop; square top edge with 1 inch (25 mm) wide top surface and minimum 1/2 inch (12 mm) turndown.
  4. Splash Dimensions: 4 inch (100 mm) high by 1 inch (25 mm) thick, unless otherwise indicated.
  5. All exposed edges to be hemmed and polished

## 2.02 FABRICATION

- A. Fabricate tops and splashes in the largest sections practicable, with top surface of joints flush.
  1. Join lengths of tops using best method recommended by manufacturer.
  2. Fabricate to overhang fronts and ends of cabinets 1 inch (25 mm) except where top butts against cabinet or wall.
  3. Prepare all cutouts accurately to size; replace tops having improperly dimensioned or unnecessary cutouts or fixture holes.
- B. Provide back/end splash wherever counter edge abuts vertical surface unless otherwise indicated.
  1. Secure to countertop with concealed fasteners and with contact surfaces set in waterproof glue.
  2. Height: 4 inches (102 mm), unless otherwise indicated.

- C. Stainless Steel: Fabricate tops up to 144 inches (3,657 mm) long in one piece including nosings and back and end splashes; accurately fitted mechanical field joints in lengths over that dimension are permitted.
  - 1. Weld joints; grind smooth and polish to match.
  - 2. Provide stainless steel hat channel stiffeners, welded or soldered to underside, where indicated on drawings.
  - 3. Provide wall clips for support of back/end splash turndowns.
  - 4. Sound Deadening: Apply water resistant, fire resistant sound deadening mastic to entire bottom surface.

### **PART 3 EXECUTION**

#### **3.01 EXAMINATION**

- A. Do not begin installation until substrates have been properly prepared.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- C. Verify that wall surfaces have been finished and mechanical and electrical services and outlets are installed in proper locations.

#### **3.02 PREPARATION**

- A. Clean surfaces thoroughly prior to installation.
- B. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

#### **3.03 INSTALLATION**

- A. Securely attach countertops to cabinets using concealed fasteners. Make flat surfaces level; shim where required.
- B. Attach stainless steel countertops using stainless steel fasteners and clips.
- C. Attach acrylic resin countertops using compatible adhesive.
- D. Seal joint between back/end splashes and vertical surfaces.

#### **3.04 CLEANING**

- A. Clean countertops surfaces thoroughly.
- B. Remove adhesives, sealants, paint, and other contaminants.

#### **3.05 PROTECTION**

- A. Protect installed products until completion of project.
- B. Touch-up, repair or replace damaged products before Date of Substantial Completion.

**END OF SECTION**

## **SECTION 312200**

### **GRADING**

#### **PART 1 GENERAL**

##### **1.01 SECTION INCLUDES**

- A. Cutting, grading, filling and rough contouring the site for structures, paving, landscaping and etc.

##### **1.02 RELATED SECTIONS**

- A. Section 024110 - Sitework Demolition.
- B. Section 310513 - Soil Materials.
- C. Section 312316.13 - Trenching.

##### **1.03 REFERENCES**

- A. ANSI/ASTM D698 - Test Methods for Moisture-Density Relations of Soils and Soil-Aggregate Mixtures, Using 5.5 lb (2.49 Kg) Rammer and 12 inch (304.8 mm) Drop.
- B. ASTM D2922 - Test Methods for Density of Soil and Soil-Aggregate in Place by Nuclear Methods (Shallow Depth).
- C. ASTM D3017 - Test Methods for Moisture Content of Soil and Soil-Aggregate Mixtures.
- D. ASTM D4254 - Test Method for Minimum Index Density and Unit Weight of Soils and Calculation of Relative Density.

##### **1.04 PROJECT RECORD DOCUMENTS**

- A. Accurately record actual locations of utilities remaining, by horizontal dimensions, elevations or inverts, and slope gradients.

#### **PART 2 PRODUCTS**

##### **2.01 MATERIALS**

- A. Fill: Type S1 as specified in Section 310513 unless noted otherwise.

#### **PART 3 EXECUTION**

##### **3.01 EXAMINATION**

- A. Verify site conditions.
- B. After stripping and/or excavation, proofroll building sites and pavement areas with a loaded dump truck. Excavate pumping or yielding areas and backfill with S1 material compacted to 95% maximum ASTM D698 density.
- C. Verify that survey bench mark and intended elevations for the Work are as indicated.

##### **3.02 PREPARATION**

- A. Identify required lines, levels, contours, and datum.
- B. Stake and flag locations of known utilities.
- C. Locate, identify, and protect utilities that remain, from damage.
- D. Notify utility company to remove and/or relocate utilities, as necessary.
- E. Protect above and below grade utilities that remain.

### 3.03 SUBSOIL EXCAVATION

- A. Prior to excavating, strip a minimum of six inches of soil from the surface of the area to be excavated and stockpile for use as topsoil.
- B. Excavate subsoil from areas required by the drawings.
- C. Excavated material may be reused or stockpiled provided the material meets the requirements of Soil Material Type S1. Submit test reports to verify soil properties.
- D. All excess material and material not suitable for fill material shall be removed from the site.
- E. After excavation and prior to placing fill or pavements, scarify the top 6 inches of soil from ground surface and recompact to 95% ASTM D 698 density with stability. If soil is unstable, adjust moisture content as described in paragraph 3.04 G of this Section.

### 3.04 FILLING

- A. Prior to placing fill, strip a minimum of six inches of soil from the surface of the area to be filled and stockpile for use as topsoil.
- B. After stripping and proofrolling, scarify the top 6 inches of the ground surface and recompact to 95% maximum ASTM D698 density with stability. If soil is unstable, adjust moisture content as described in paragraph 3.04 G of this Section.
- C. Fill areas to contours and elevations with type S1 material unless shown or specified otherwise.
- D. Employ a placement method that does not disturb or damage other work.
- E. Fill simultaneously on each side of unsupported foundation walls until supports are in place.
- F. In building and pavement areas, place fill materials in continuous 8 inch thick horizontally placed loose layers and compact to 98% ASTM D698 maximum density with stability (stability is defined as the absence of significant pumping or yielding of soils under compactive effort). In all other areas, place fill materials in continuous 8 inch thick horizontally placed loose layers and compact to 95% ASTM D698 maximum dry density with stability. Loose layers shall be 5 inch thickness when hand-held compaction is used.
- G. Adjust moisture content of fill materials to within 3 percentage points of the optimum water content. **The natural soils at this site are susceptible to a lack of stability (pumping) under wet conditions. The actual condition of these natural soils at the time of construction will be strongly influenced by the season of the year and the rainfall conditions preceding and during construction. If pumping is present, treating or drying of soils will be required to restore stability.**
- H. The surface of each lift shall be scarified prior to placement of subsequent lifts.
- I. Make grade changes gradual. Blend slope into level areas.
- J. All areas not meeting required density or stability shall be excavated, reworked and retested.
- K. Reshape and recompact fills subject to vehicular traffic.
- L. Slope grade away from building.

### 3.05 DRAINAGE AND DEWATERING

- A. The Contractor shall keep the area of work properly drained at all times during the time of the Contract. He shall construct and maintain, as required, any and all necessary ditches, flumes, and other temporary diversion and protective measures necessary. Any such protective measures other than channels or ditches called for on the plans or authorized by the Engineer shall be provided at the Contractor's expense. The Contractor shall furnish, install, maintain, and operate at his expense all necessary pumps, well points, deepwells, and/or other equipment required for dewatering the various parts of the work, and for maintaining the foundations, embankments, and other parts of the work, free from water as required for construction.

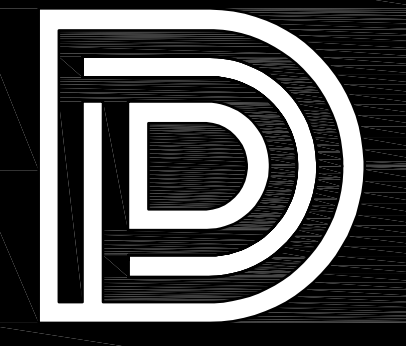
### **3.06 TOLERANCES**

- A. Top surface under paved areas and buildings: plus or minus .04 feet from required elevations.
- B. Top Surface of Other Areas: Plus or minus 1/10 foot.

### **3.07 FIELD QUALITY CONTROL**

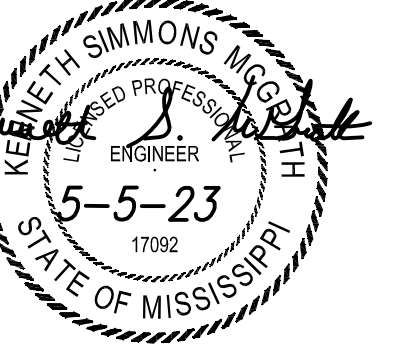
- A. Laboratory classification tests including Atterburg limit determinations and grain size analysis shall be performed on the fill and backfill soils initially and routinely during earthwork operations to check for compliance with the requirements for S1 fill.
- B. Compaction testing will be performed in accordance with ANSI/ASTM D698 and/or ASTM D4254 and ASTM D2922.
- C. If tests indicate Work does not meet specified requirements, remove Work, replace and retest.
- D. Frequency of Tests: Compaction tests shall be taken at the rate of one per 5,000 sq.ft. per lift in pavement areas and one per 2,500 sq.ft. per lift in building areas.

**END OF SECTION**



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ARCHITECTURE  
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deandean.com



Project No.: 22093  
Date: APRIL 5, 2023  
Drawn: KSM  
Checked: KSM  
Revisions: 4/17/2023

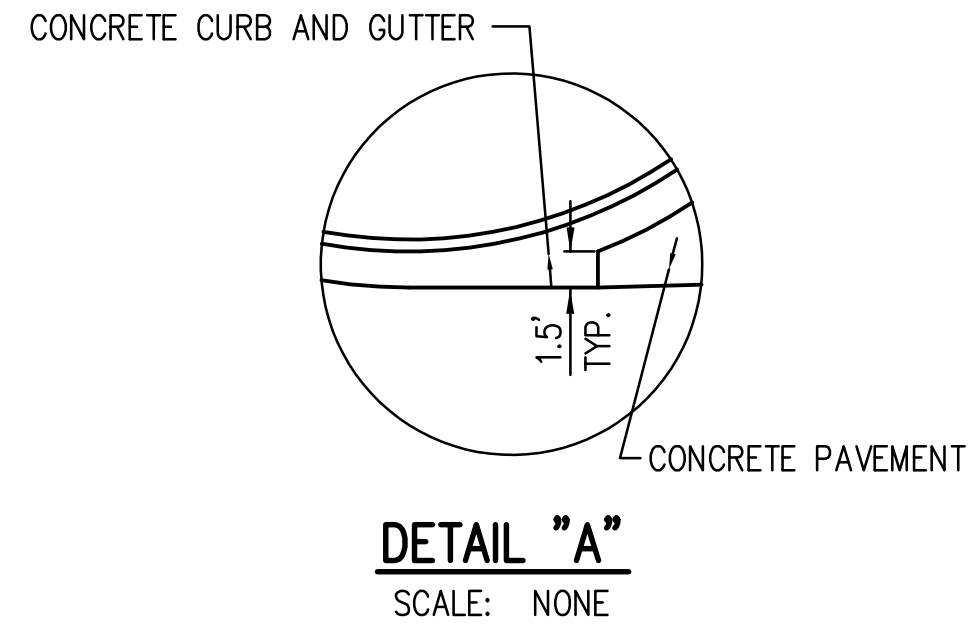
**CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS**

Sheet Number:

**C200**

SITE PLAN

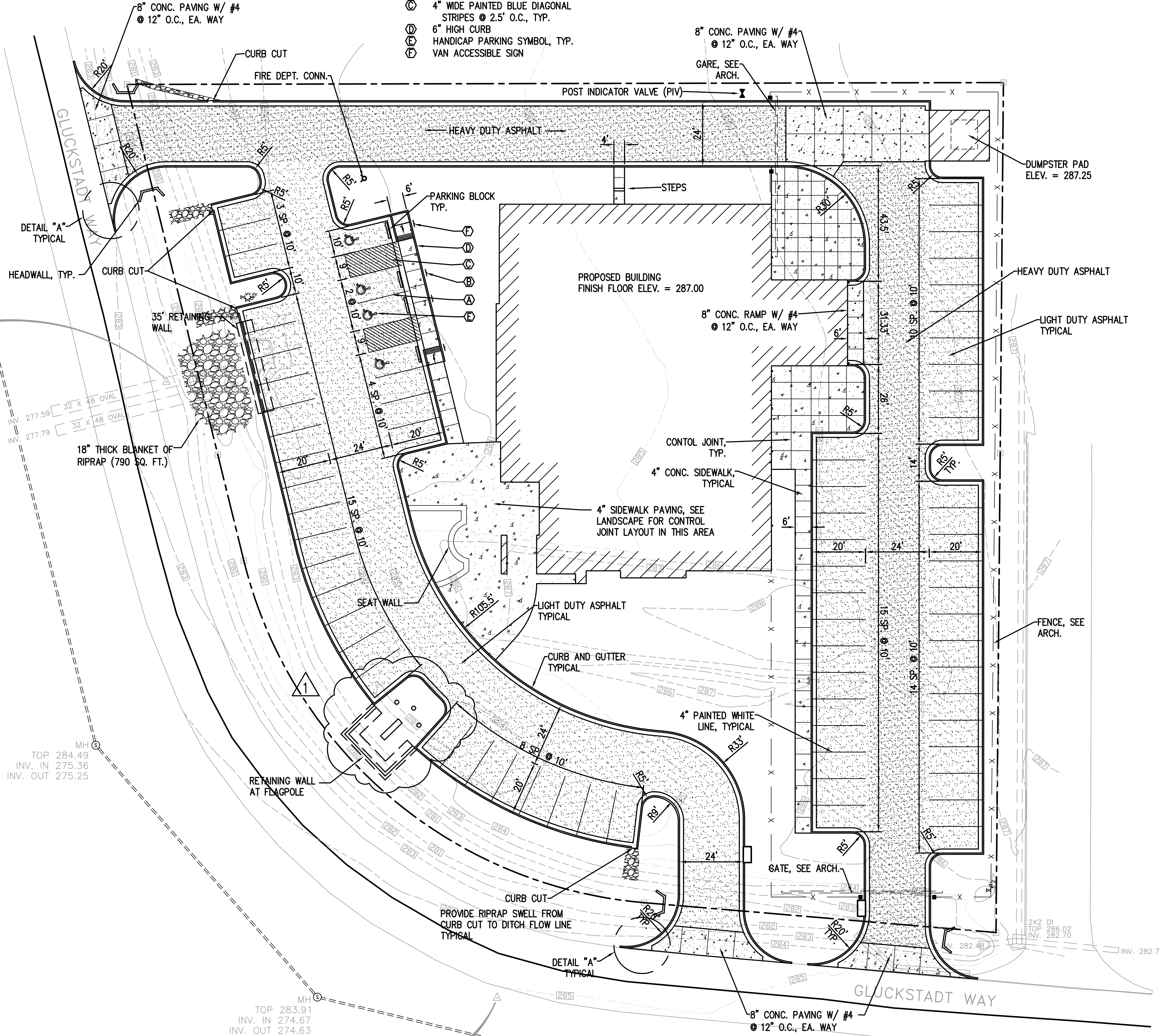
SE #23005  
**Spencer-Engineers, Inc.**  
Consultants  
P.O. BOX 4328 JACKSON, MS 39216  
(601) 982-7768



**DETAIL "A"**  
SCALE: NONE

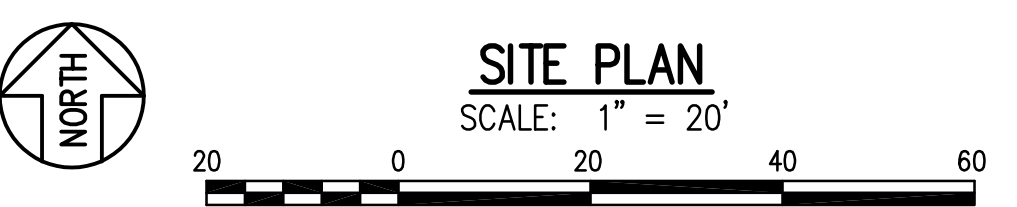
**ADA PARKING LEGEND**

- ① 4" WIDE PAINTED BLUE STRIPE, TYP.
- ② HANICAP PARKING SIGN, TYP.
- ③ 4" WIDE PAINTED BLUE DIAGONAL STRIPES @ 2.5' O.C., TYP.
- ④ 6" HIGH CURB
- ⑤ HANICAP PARKING SYMBOL, TYP.
- ⑥ VAN ACCESSIBLE SIGN



**LEGEND**

NEW	EXISTING	DESCRIPTION
[Pattern]	[Pattern]	BUILDING
[Pattern]	[Pattern]	HEAVY DUTY ASPHALT PAVEMENT
[Pattern]	[Pattern]	LIGHT DUTY ASPHALT PAVEMENT
[Pattern]	[Pattern]	CONCRETE PAVEMENT
[Pattern]	[Pattern]	CONCRETE SIDEWALK
[Pattern]	[Pattern]	CONCRETE CURB AND GUTTER



- NOTES:**
- CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS AND PAYING ALL APPLICABLE FEES REQUIRED FOR CONSTRUCTION PURPOSES AND UTILITY HOOKUPS.
  - DIMENSIONS SHOWN ARE FACE OF CURB TO FACE OF CURB.
  - ALL DISTURBED AREAS NOT RECEIVING PAVEMENT OR LANDSCAPING SHALL BE GRASSED UNLESS NOTED TO BE SODDED.
  - CONCRETE SIDEWALKS SHALL BE 4" THICK UNLESS NOTED OTHERWISE.
  - SIGNS AND PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".

- 3" = 1'-0" GRAPHIC SCALE
- 1 1/2" = 1'-0" GRAPHIC SCALE
- 1" = 1'-0" GRAPHIC SCALE
- 3/4" = 1'-0" GRAPHIC SCALE
- 1/2" = 1'-0" GRAPHIC SCALE
- 1/4" = 1'-0" GRAPHIC SCALE
- 1/8" = 1'-0" GRAPHIC SCALE

RALEIGH FOOTBALL STADIUM RENOVATIONS  
VISITORS CONCESSIONS AND TOILETS, VISITORS LOCKER ROOM  
RALEIGH, MISSISSIPPI  
2/2021

MH  
TOP 284.25  
INV. IN 276.44  
INV. OUT 276.38

CP-1  
N: 1101602.74  
E: 2367238.14  
ELEV. 282.60

MH  
TOP 284.49  
INV. IN 275.36  
INV. OUT 275.25

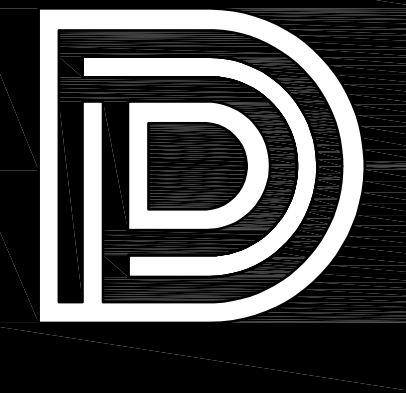
MH  
TOP 283.91  
INV. IN 274.67  
INV. OUT 274.63

CP-476  
N: 1101370.88  
E: 2367362.73  
ELEV. 284.76

MH  
TOP 284.54  
INV. IN 273.99  
INV. OUT 274.04

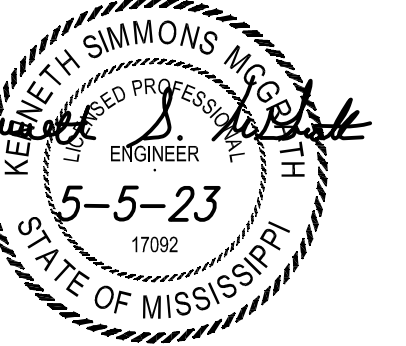
CP-477 Δ  
N: 1101347.85  
E: 2367557.39  
ELEV. 285.26

MH  
TOP 286.04  
INV. IN 273.22  
INV. OUT 273.17



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ARCHITECTURE  
GEDDIE | GRANT | OUBRE

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deandean.com



Project No.: 22093  
Date: APRIL 5, 2023  
Drawn: KSM  
Checked: KSM  
Revisions: 4/17/2023

**CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS**

Sheet Number:

**C300**

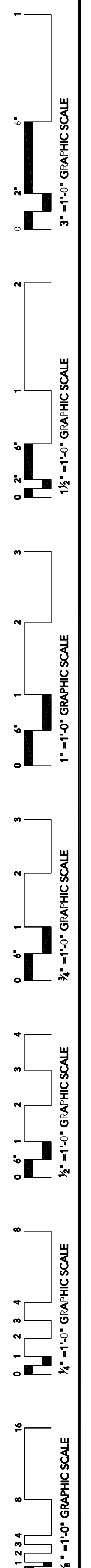
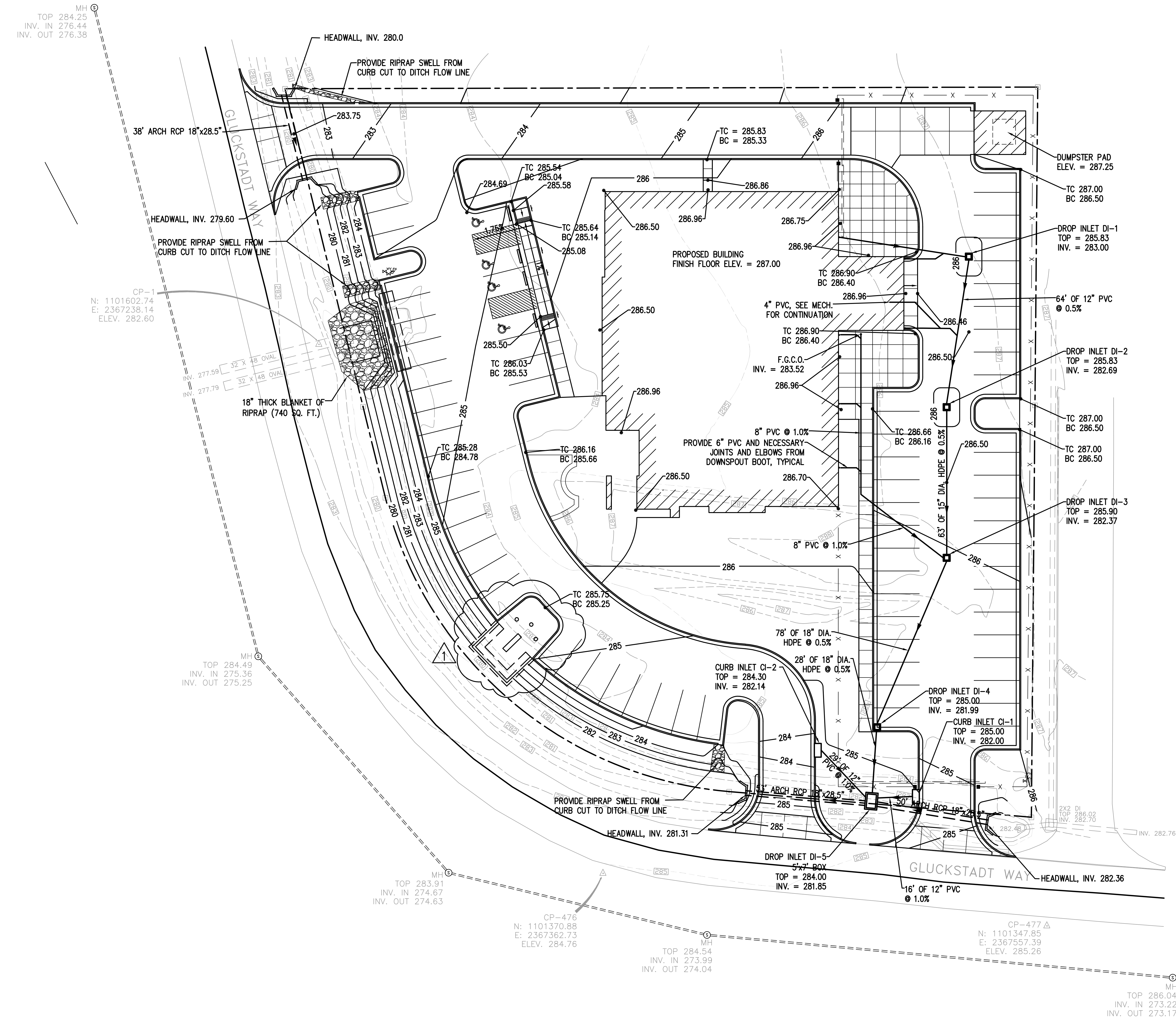
GRADING AND DRAINAGE PLAN

SE #23005  
**Spencer-Engineers, Inc.**  
Consultants  
P.O. BOX 4328 JACKSON, MS 39216  
(601) 982-7768

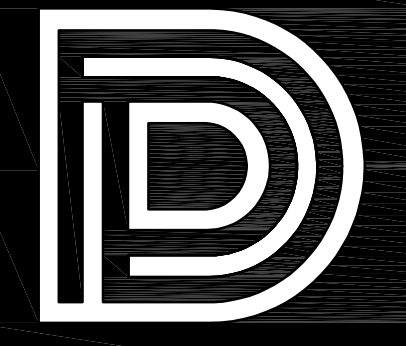
LEGEND	
NEW	EXISTING
600	600
608.50	CONTOUR
	SPOT ELEVATION
	STORM DRAIN

**GRADING AND DRAINAGE PLAN**  
SCALE: 1" = 20'  
20 0 20 40 60

- NOTES:
1. MANHOLE RING AND COVERS, VALVE BOXES, METER BOXES, C.O., ETC. TO REMAIN SHALL BE ADJUSTED TO FINISH GRADE.
  2. PIPING FROM DOWNSPOUTS TO STORM DRAIN SHALL BE SDR 26 PVC @ 1.0% SLOPE (MINIMUM).
  3. STORM DRAIN PIPES MAY BE SDR 26 PVC, HDPE OR RCP UNLESS SPECIFICALLY NOTED.
  4. MOUND SOIL IN CURBED ISLANDS A MINIMUM OF 6" ABOVE TOP OF CURB.
  5. GRADES SHOWN ARE FINISH GRADES. ROUGH GRADES SHALL ALLOW FOR TOP SOIL, SOD, MULCH, ASPHALT MILLING, ETC. WHERE APPLICABLE.

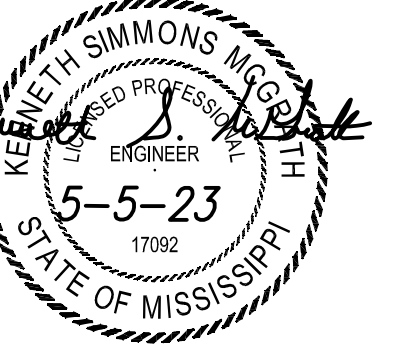


RALEIGH FOOTBALL STADIUM RENOVATIONS  
VISITORS CONCESSIONS AND TOILETS, VISITORS LOCKER ROOM  
RALEIGH, MISSISSIPPI  
22050



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ARCHITECTURE  
GEDDIE | GRANT | OUBRE

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Revisions: 4/17/2023

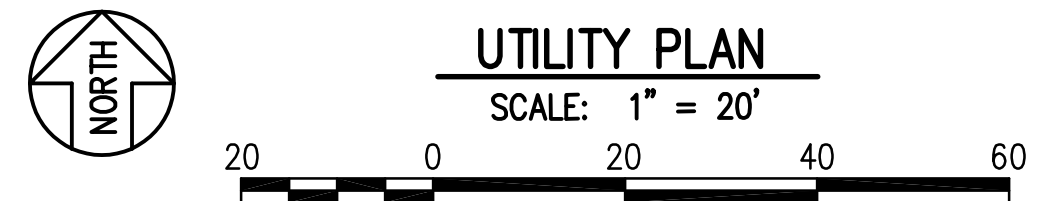
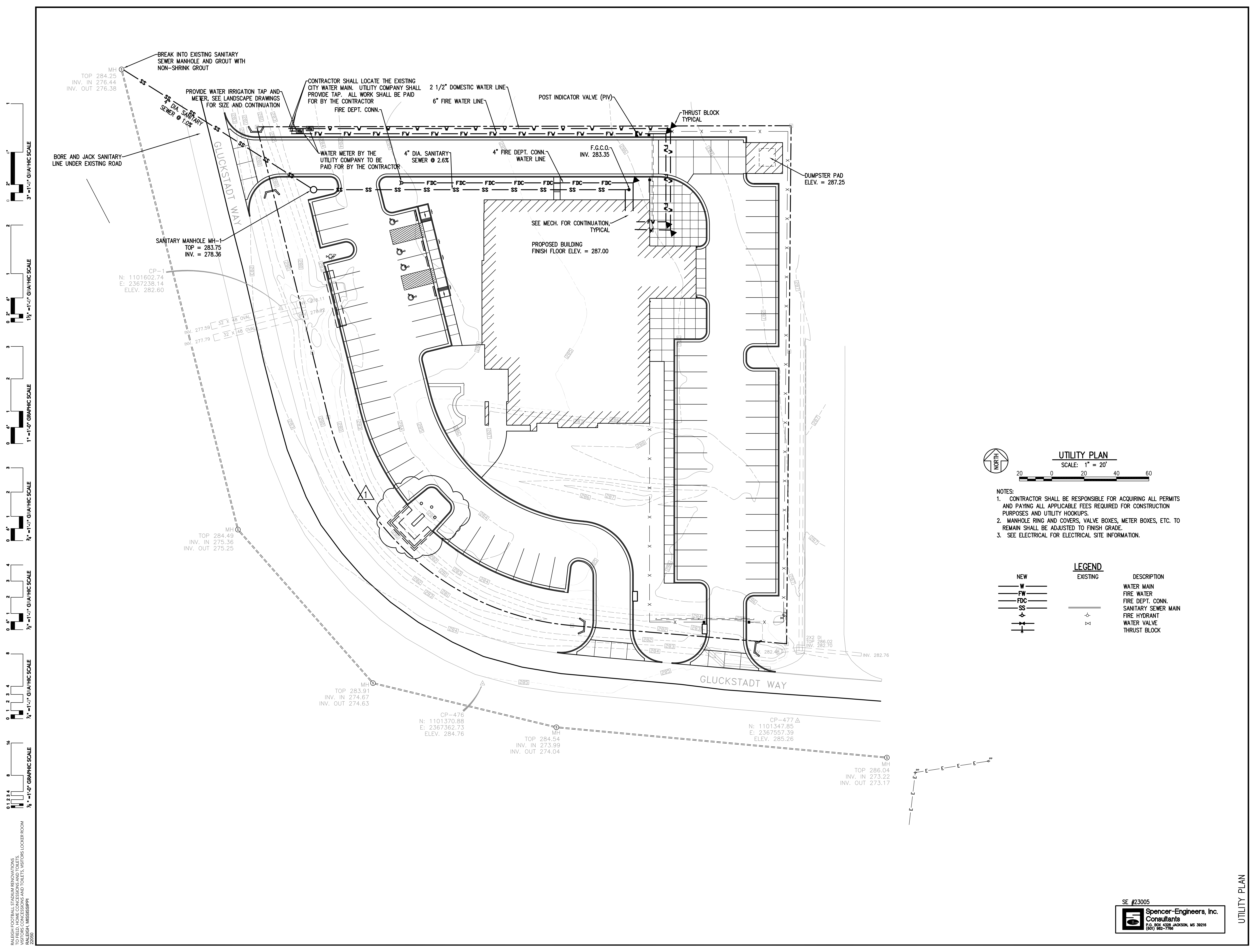
**CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS**

Sheet Number:

**C400**

UTILITY PLAN

SE #23005  
**Spencer-Engineers, Inc.**  
Consultants  
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(601) 982-7768



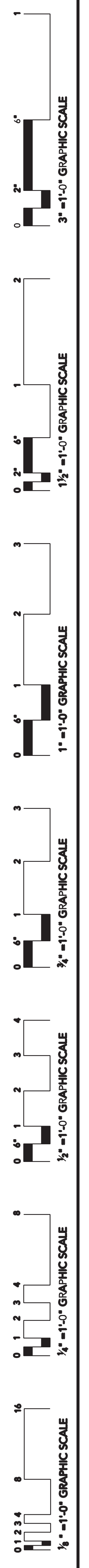
- NOTES:**
- 1. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS AND PAYING ALL APPLICABLE FEES REQUIRED FOR CONSTRUCTION PURPOSES AND UTILITY HOOKUPS.
  - 2. MANHOLE RING AND COVERS, VALVE BOXES, METER BOXES, ETC. TO REMAIN SHALL BE ADJUSTED TO FINISH GRADE.
  - 3. SEE ELECTRICAL FOR ELECTRICAL SITE INFORMATION.

NEW		EXISTING		DESCRIPTION
W	---	---	---	WATER MAIN
FW	---	---	---	FIRE WATER
FDC	---	---	---	FIRE DEPT. CONN.
SS	---	---	---	SANITARY SEWER MAIN
+	+	+	+	FIRE HYDRANT
+	+	+	+	WATER VALVE
+	+	+	+	THRUST BLOCK

3" = 1'-0" GRAPHIC SCALE  
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1" = 1'-0" GRAPHIC SCALE  
3/4" = 1'-0" GRAPHIC SCALE  
1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE  
1/8" = 1'-0" GRAPHIC SCALE

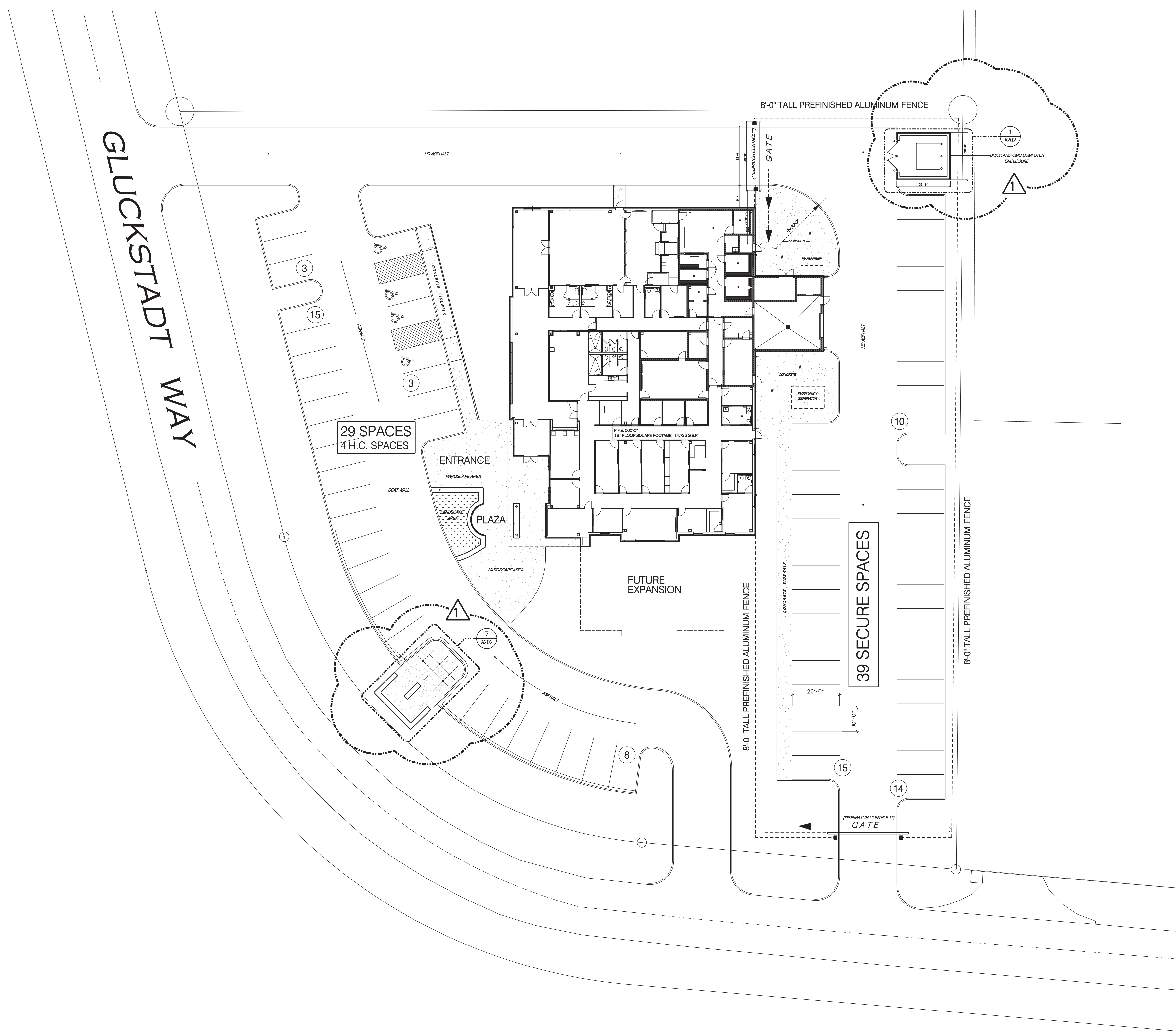
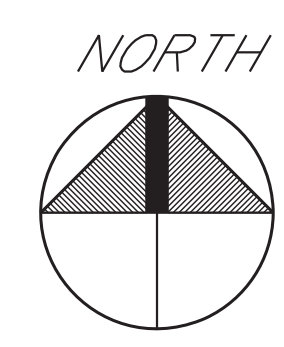
RALEIGH FOOTBALL STADIUM RENOVATIONS  
VISITORS CONCESSIONS AND TOILETS, VISITORS LOCKER ROOM  
RALEIGH, MISSISSIPPI  
2020





CITY OF GLUCKSTADT POLICE STATION AND MUNICIPAL COURT  
 GLUCKSTADT, MS  
 3/20/23

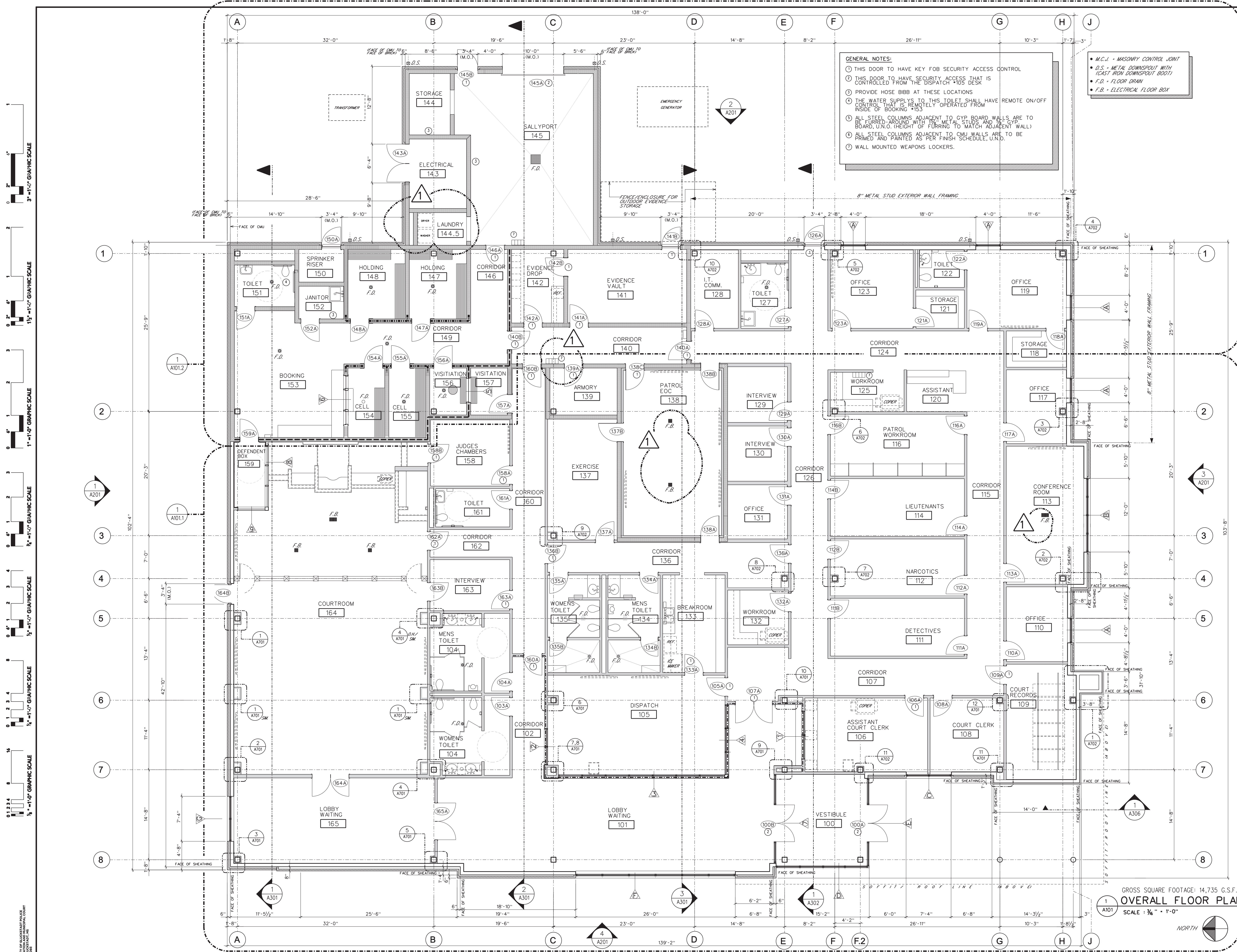
1  
 A100  
**PROPOSED SITE PLAN**  
 SCALE : 1" = 20'-0"



CONSTRUCTION DOCUMENTS

Project No. : 22093  
 Date : APRIL 5, 2023  
 Drawn : JMD, MP, JAG, MGL, AH  
 Checked : JAG  
 Revisions : APRIL 17, 2023, ADDENDUM #1

**CITY OF GLUCKSTADT  
 POLICE STATION AND MUNICIPAL COURT  
 GLUCKSTADT, MS**



**GENERAL NOTES:**

- THIS DOOR TO HAVE KEY FOB SECURITY ACCESS CONTROL
- THIS DOOR TO HAVE SECURITY ACCESS THAT IS CONTROLLED FROM THE DISPATCH \*105 DESK
- PROVIDE HOSE BIBB AT THESE LOCATIONS
- THE WATER SUPPLY TO THIS TOILET SHALL HAVE REMOTE ON/OFF CONTROL THAT IS REMOTELY OPERATED FROM INSIDE OF BOOKING \*153
- ALL STEEL COLUMNS ADJACENT TO GYP BOARD WALLS ARE TO BE FURRED AROUND WITH 2x4 METAL STUDS AND 5/8" GYP BOARD, U.N.O. (HEIGHT OF FURRING TO MATCH ADJACENT WALL)
- ALL STEEL COLUMNS ADJACENT TO CMU WALLS ARE TO BE PRIMED AND PAINTED AS PER FINISH SCHEDULE, U.N.O.
- WALL MOUNTED WEAPONS LOCKERS.

- M.C.J. - MASONRY CONTROL JOINT
- D.S. - METAL DOWNSPOUT WITH (CAST IRON DOWNSPOUT BODY)
- F.D. - FLOOR DRAIN
- F.B. - ELECTRICAL FLOOR BOX

3" = 1'-0" GRAPHIC SCALE  
 1 1/2" = 1'-0" GRAPHIC SCALE  
 1" = 1'-0" GRAPHIC SCALE  
 3/4" = 1'-0" GRAPHIC SCALE  
 1/2" = 1'-0" GRAPHIC SCALE  
 1/4" = 1'-0" GRAPHIC SCALE

GROSS SQUARE FOOTAGE: 14,735 G.S.F.  
**OVERALL FLOOR PLAN**  
 SCALE: 3/8" = 1'-0"

**DEAN ARCHITECTURE**  
 GEDDIE | GRANT | OUBRE

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 Ridgeland, MS 39157  
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 deandean.com



CONSTRUCTION DOCUMENTS

Project No.: 22093  
 Date: APRIL 5, 2023  
 Drawn: JMD, MP, JAG, MGLAH  
 Checked: JAG  
 Revisions: APRIL 17, 2023, APPENDIUM #1

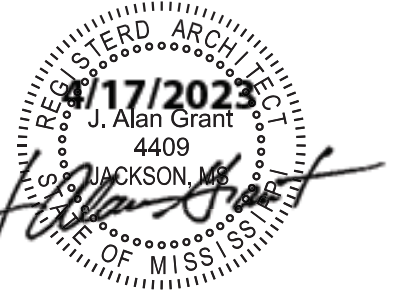
**CITY OF GLUCKSTADT  
 POLICE STATION AND MUNICIPAL COURT  
 GLUCKSTADT, MS**

Sheet Number:  
**A101**  
 OVERALL FLOOR PLAN



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Revisions: APRIL 17, 2023, ADDENDUM #1

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3/4" = 1'-0" GRAPHIC SCALE  
1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE



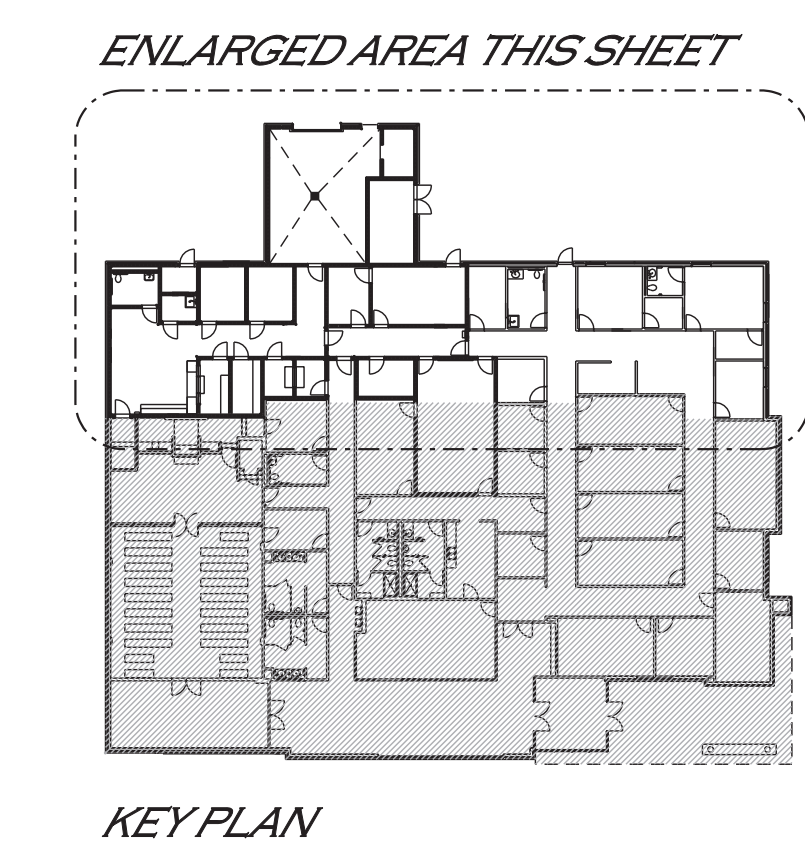
**1 PARTIAL FLOOR PLAN**  
A101.2 SCALE: 1/4" = 1'-0"

CONCRETE SLAB / CAP OVER EOC /  
PATROL ROOM (SEE STRUCTURAL DWGS  
FOR REINFORCING, THICKNESS,  
ETC.)

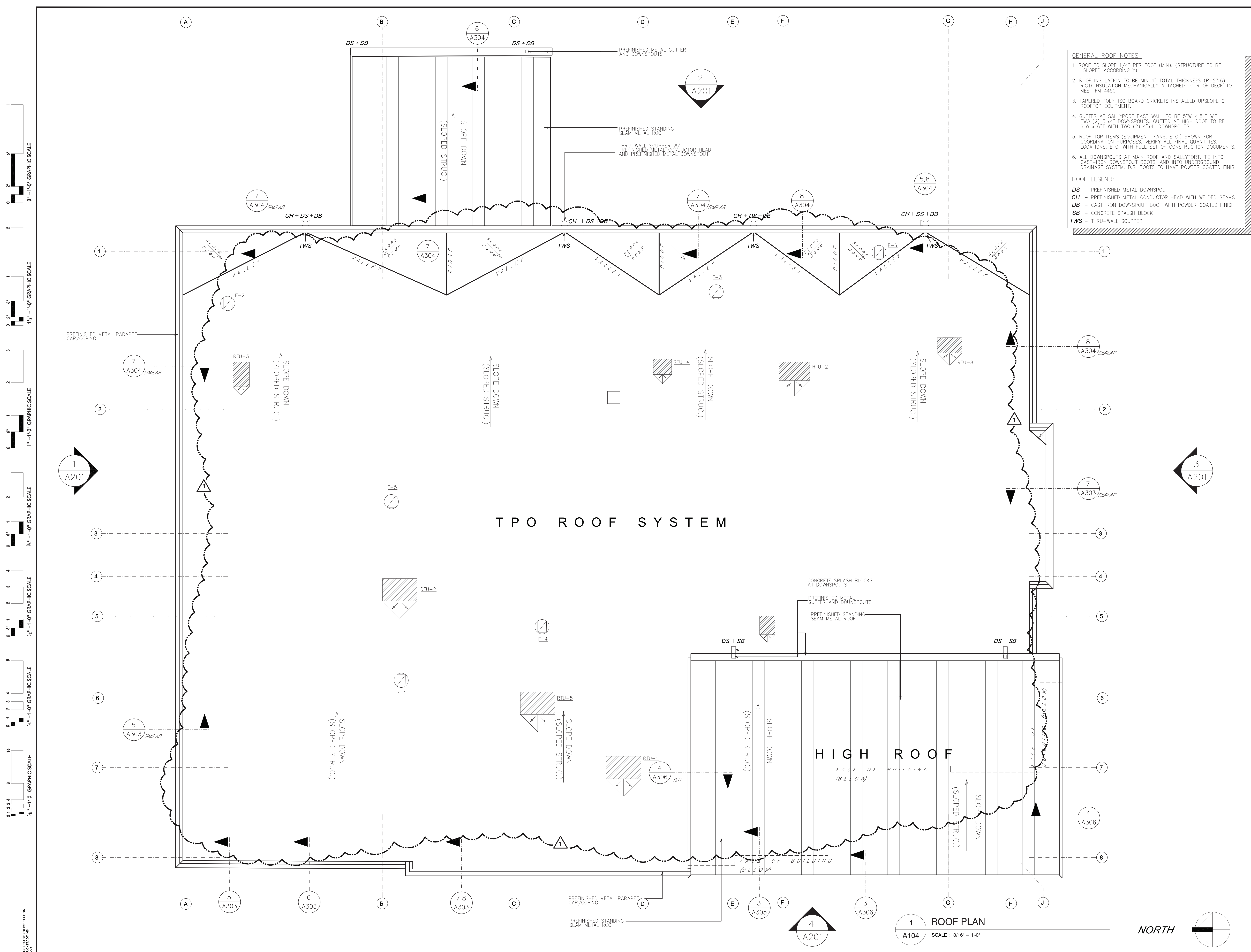
CMU WALL  
(BELOW)

TOP OF CONCRETE 10'-8" A.F.F.

SYMBOL	DESCRIPTION
[Symbol]	NON-RATED 5" NOMINAL WALL (4 1/2" ACTUAL) 3/8" METAL STUDS @ 16" O.C. W/ 1 LAYER 3/8" GYP. BD. EACH SIDE. EXTEND WALL TO 8" ABOVE THE PLANE OF THE LAY IN ACoustICAL THE CEILING SYSTEM.
[Symbol]	NON-RATED 7" NOMINAL WALL (6 3/4" ACTUAL) 3/8" METAL STUDS @ 12" O.C. W/ 1 LAYER 3/8" GYP. BD. EACH SIDE. EXTEND WALL TO 8" ABOVE THE PLANE OF THE LAY IN ACoustICAL THE CEILING SYSTEM STAGGER STUDS @ 12" O.C. AND LEAVE SOAK DRY INSULATION BETWEEN STUDS.
[Symbol]	NON-RATED 5" NOMINAL WALL (4 1/2" ACTUAL) 3/8" METAL STUDS @ 16" O.C. W/ 1 LAYER 3/8" GYP. BD. EACH SIDE. EXTEND WALL TO 8" ABOVE THE PLANE OF THE LAY IN ACoustICAL THE CEILING SYSTEM FULL STUD CAVITY WITH WATt INSULATION.
[Symbol]	NON-RATED 8" NOMINAL WALL (7 1/2" ACTUAL) 3/8" METAL STUDS @ 16" O.C. W/ LEVEL 7 BULLET RESISTANT FIBERGLASS WALL PANEL ON ONE SIDE EXTEND PROTECTION TO 8" ABOVE FINISH FLOOR COVER BOTH SIDES OF PARTITION WITH 1 LAYER OF 5/8" Gypsum BOARD.
[Symbol]	NON-RATED 8" NOMINAL WALL (7 1/2" ACTUAL) 8" CONCRETE BLOCK EXTEND WALL TO 10'-0" ABOVE FINISH FLOOR.
[Symbol]	NON-RATED 8" NOMINAL WALL (7 1/2" ACTUAL) 8" CONCRETE BLOCK EXTEND WALL TO THE BOTTOM OF THE ROOF STRUCTURE ABOVE. FILL ALL CELLS OF BLOCK WITH 3000 PSI CONCRETE.
[Symbol]	NON-RATED 8" NOMINAL WALL (7 1/2" ACTUAL) 8" CONCRETE BLOCK EXTEND WALL TO 10'-0" ABOVE FINISH FLOOR. FILL ALL CELLS OF BLOCK WITH 3000 PSI CONCRETE.
[Symbol]	NON-RATED 8" NOMINAL WALL (7 1/2" ACTUAL) 8" CONCRETE BLOCK WITH 3/8" FERRING CHANNELS AND 3/8" GYP. BD. ON ONE SIDE. EXTEND WALL TO 10'-0" ABOVE FINISH FLOOR.
[Symbol]	NON-RATED 8" NOMINAL WALL (7 1/2" ACTUAL) 8" CONCRETE BLOCK WITH 3/8" FERRING CHANNELS AND 3/8" GYP. BD. ON ONE SIDE. EXTEND WALL TO 10'-0" ABOVE FINISH FLOOR. FILL ALL CELLS OF BLOCK (CMU) WITH 3000 PSI CONCRETE.
[Symbol]	NON-RATED 1'-0" NOMINAL WALL (10 1/2" ACTUAL) 8" CONCRETE BLOCK WITH 3/8" METAL STUDS @ 16" O.C. AND 3/8" GYP. BD. ON ONE SIDE. EXTEND WALL TO 10'-0" ABOVE FINISH FLOOR.
[Symbol]	NON-RATED 1'-0" NOMINAL WALL (10 1/2" ACTUAL) 8" CONCRETE BLOCK WITH 3/8" METAL STUDS @ 16" O.C. AND 3/8" GYP. BD. ON ONE SIDE AND 3/8" FERRING CHANNELS AND 3/8" GYP. BD. ON THE OTHER SIDE. EXTEND WALL TO 10'-0" ABOVE FINISH FLOOR.



Sheet Number:  
**A101.2**  
(EAST SIDE)  
PARTIAL FLOOR PLAN



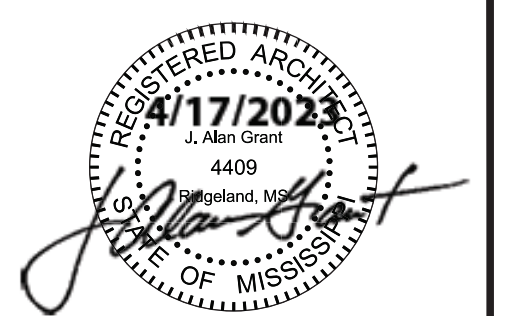
**GENERAL ROOF NOTES:**

- ROOF TO SLOPE 1/4" PER FOOT (MIN). (STRUCTURE TO BE SLOPED ACCORDINGLY)
- ROOF INSULATION TO BE MIN 4" TOTAL THICKNESS (R-23.6) RIGID INSULATION MECHANICALLY ATTACHED TO ROOF DECK TO MEET FM 4450
- TAPERED POLY-ISO BOARD CRICKETS INSTALLED UPSLOPE OF ROOFTOP EQUIPMENT.
- GUTTER AT SALLYPORT EAST WALL TO BE 6"W x 5"T WITH TWO (2) 3"x4" DOWNSPOUTS. GUTTER AT HIGH ROOF TO BE 6"W x 6"T WITH TWO (2) 4"x4" DOWNSPOUTS.
- ROOF TOP ITEMS (EQUIPMENT, FANS, ETC.) SHOWN FOR COORDINATION PURPOSES. VERIFY ALL FINAL QUANTITIES, LOCATIONS, ETC. WITH FULL SET OF CONSTRUCTION DOCUMENTS.
- ALL DOWNSPOUTS AT MAIN ROOF AND SALLYPORT, TIE INTO CAST-IRON DOWNSPOUT BOOTS, AND INTO UNDERGROUND DRAINAGE SYSTEM. D.S. BOOTS TO HAVE POWDER COATED FINISH.

**ROOF LEGEND:**

- DS - PREFINISHED METAL DOWNSPOUT
- CH - PREFINISHED METAL CONDUCTOR HEAD WITH WELDED SEAMS
- DB - CAST IRON DOWNSPOUT BOOT WITH POWDER COATED FINISH
- SB - CONCRETE SPALSH BLOCK
- TWS - THRU-WALL SCUPPER

3" = 1'-0" GRAPHIC SCALE  
 1 1/2" = 1'-0" GRAPHIC SCALE  
 1" = 1'-0" GRAPHIC SCALE  
 3/4" = 1'-0" GRAPHIC SCALE  
 1/2" = 1'-0" GRAPHIC SCALE  
 1/4" = 1'-0" GRAPHIC SCALE  
 1/8" = 1'-0" GRAPHIC SCALE



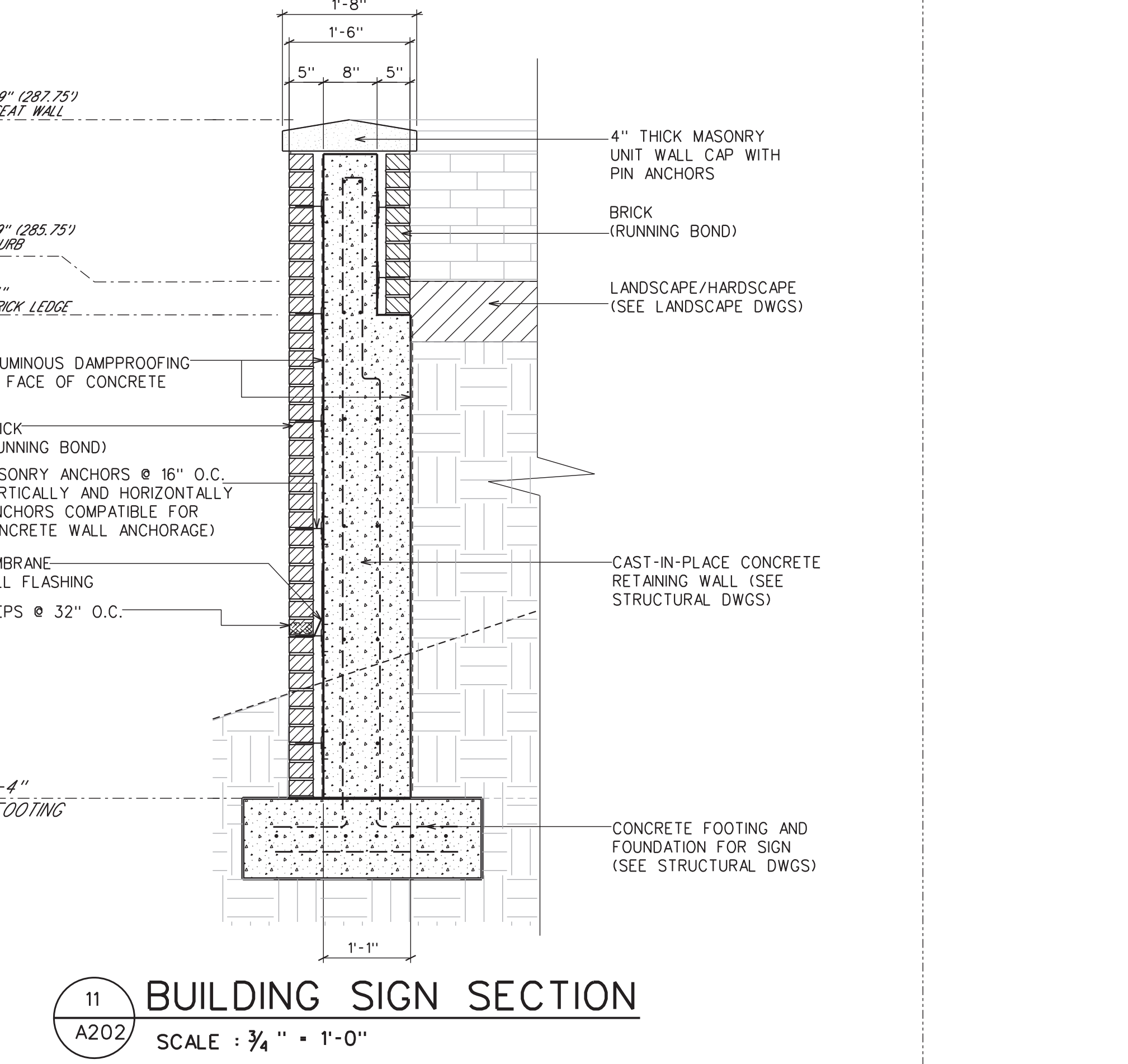
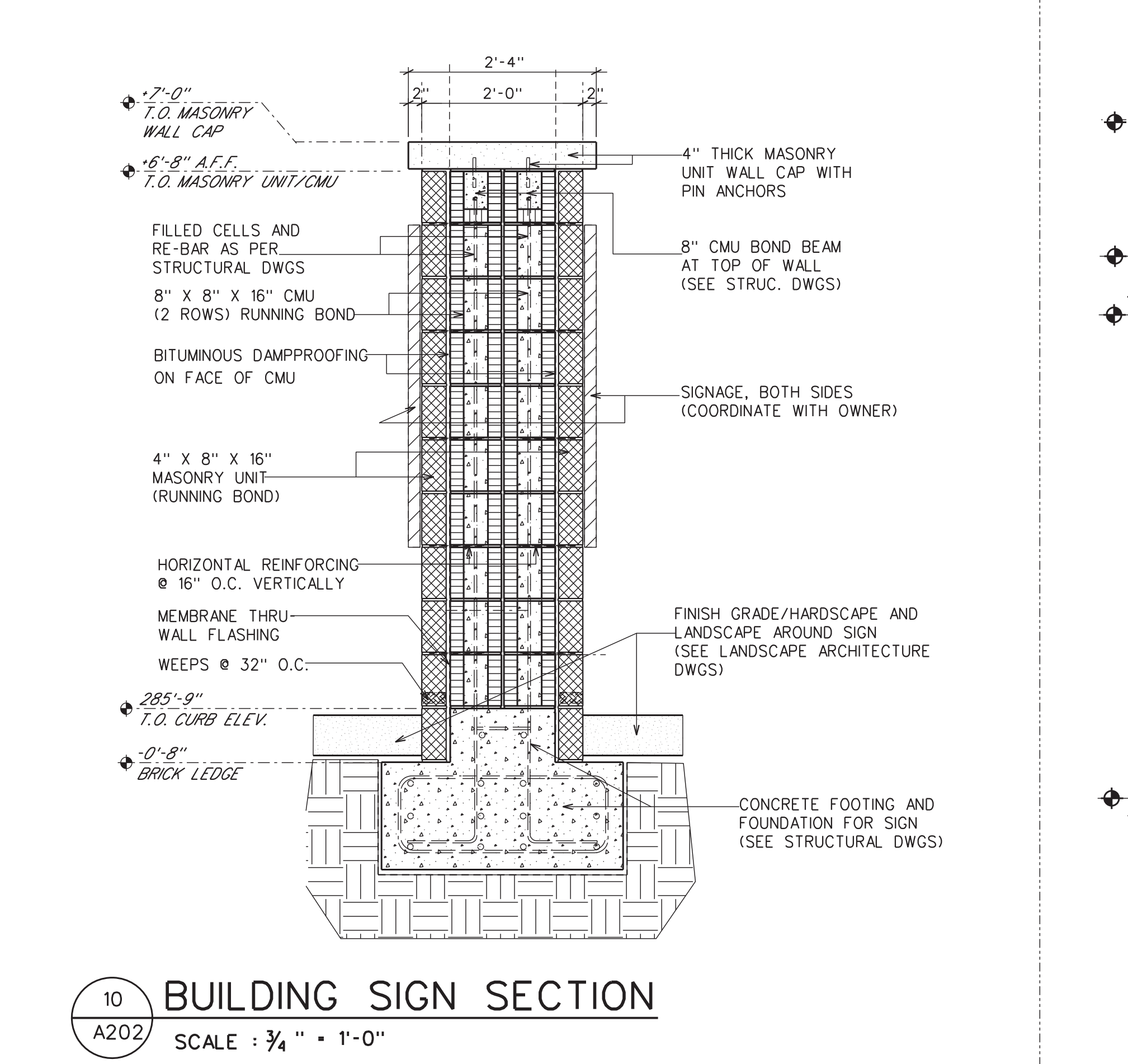
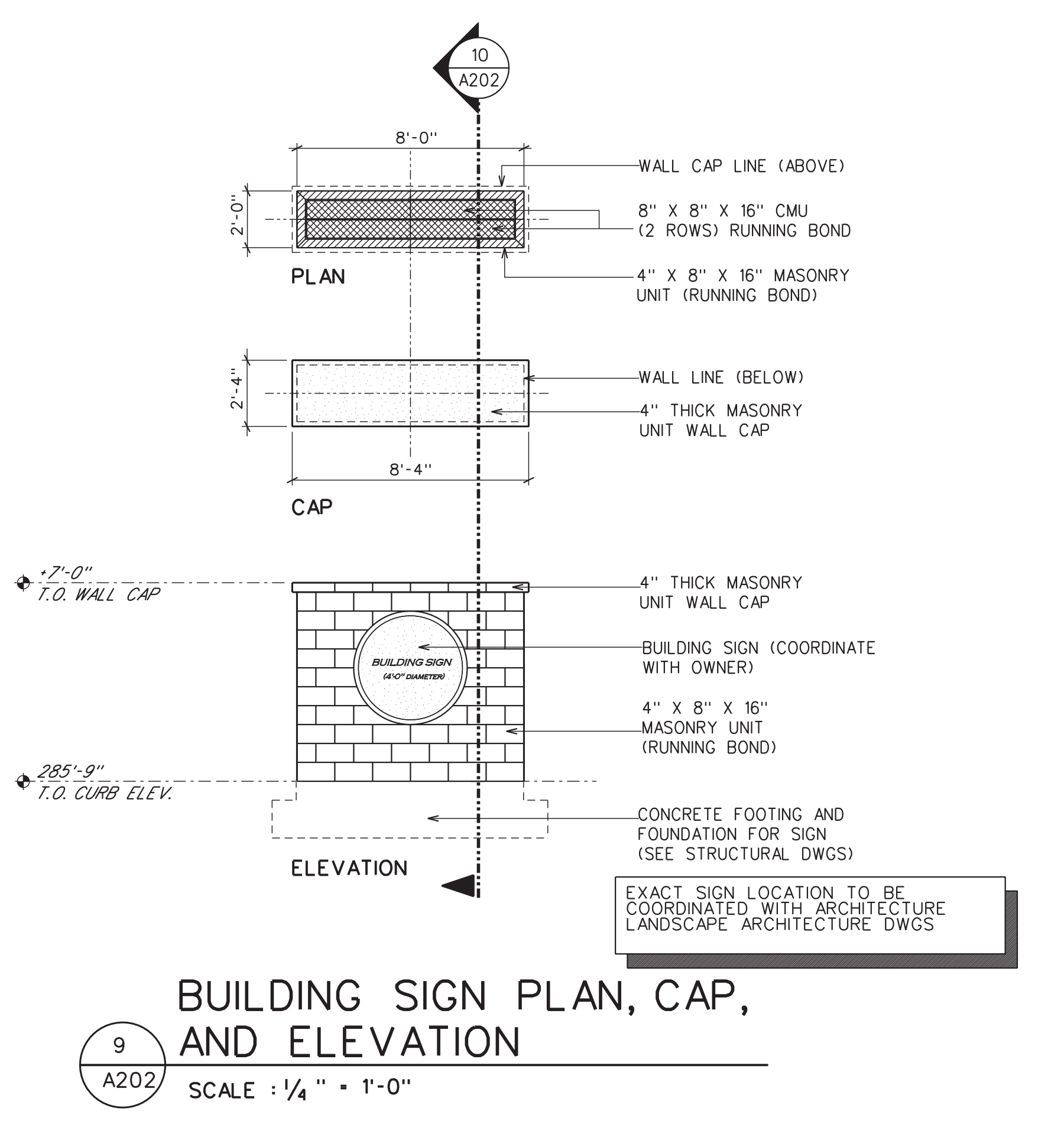
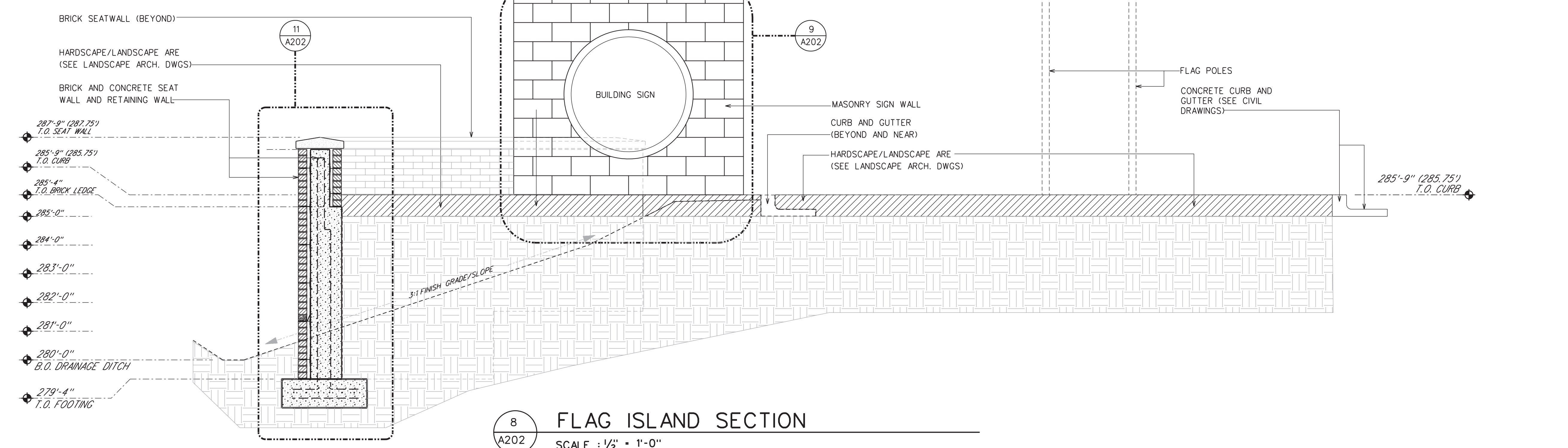
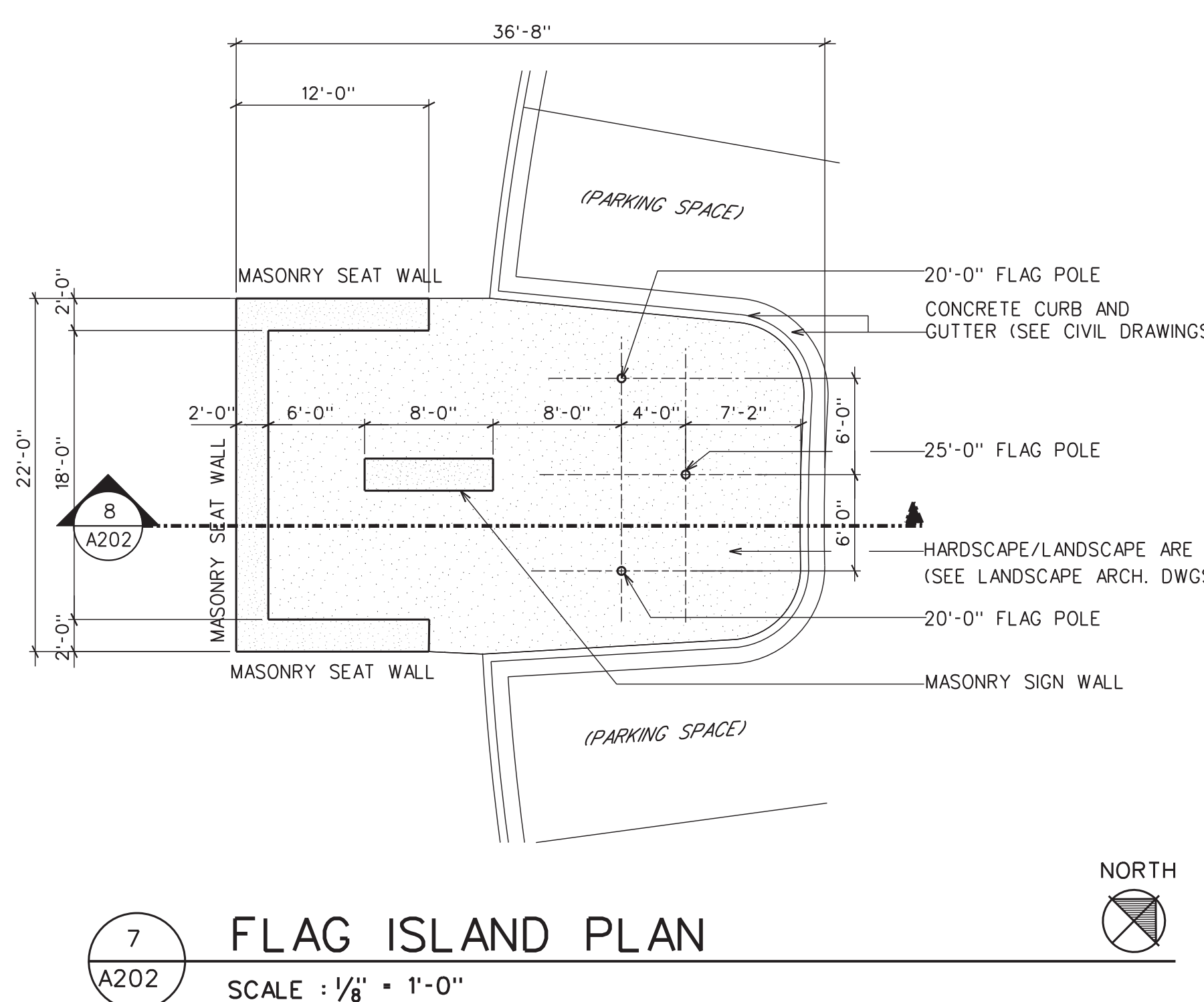
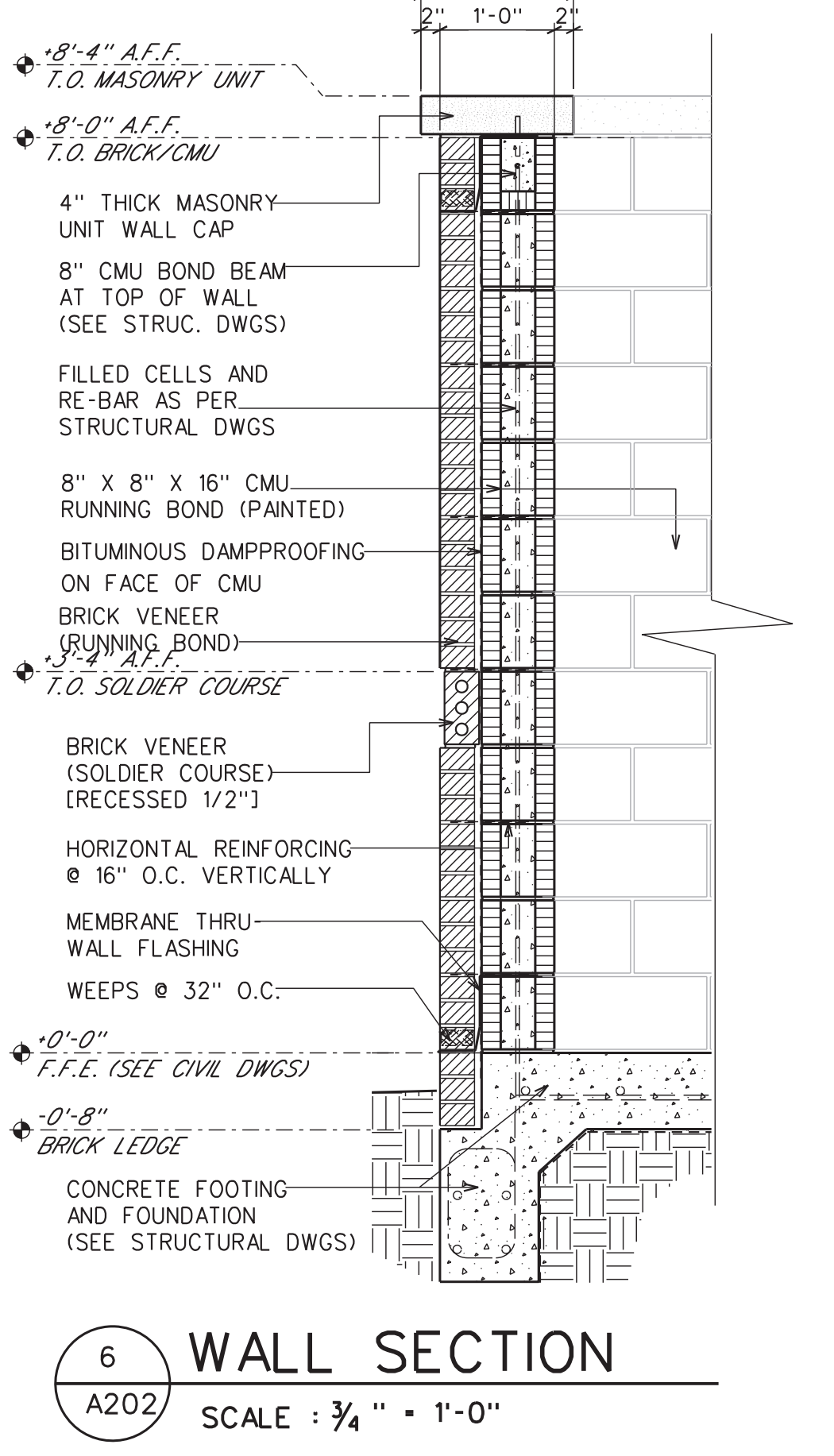
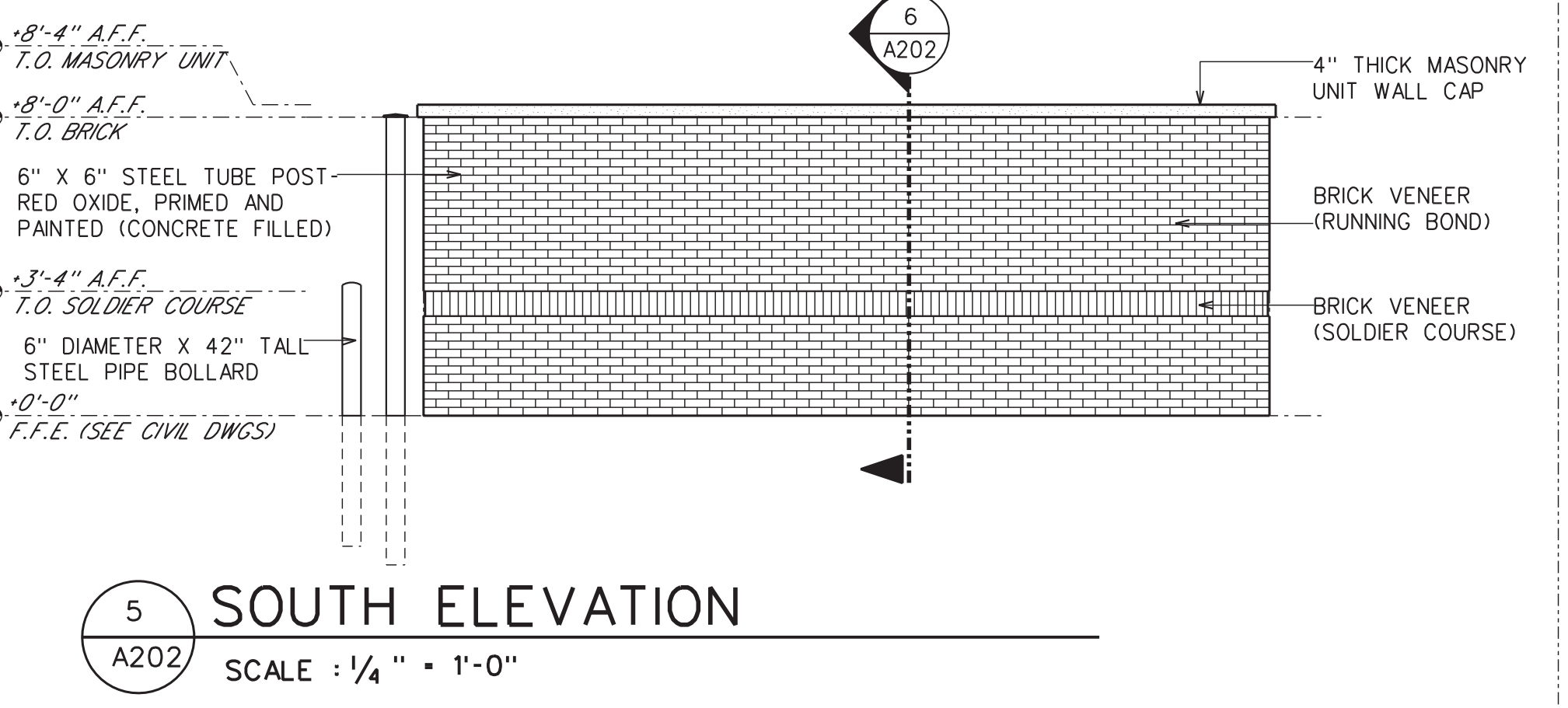
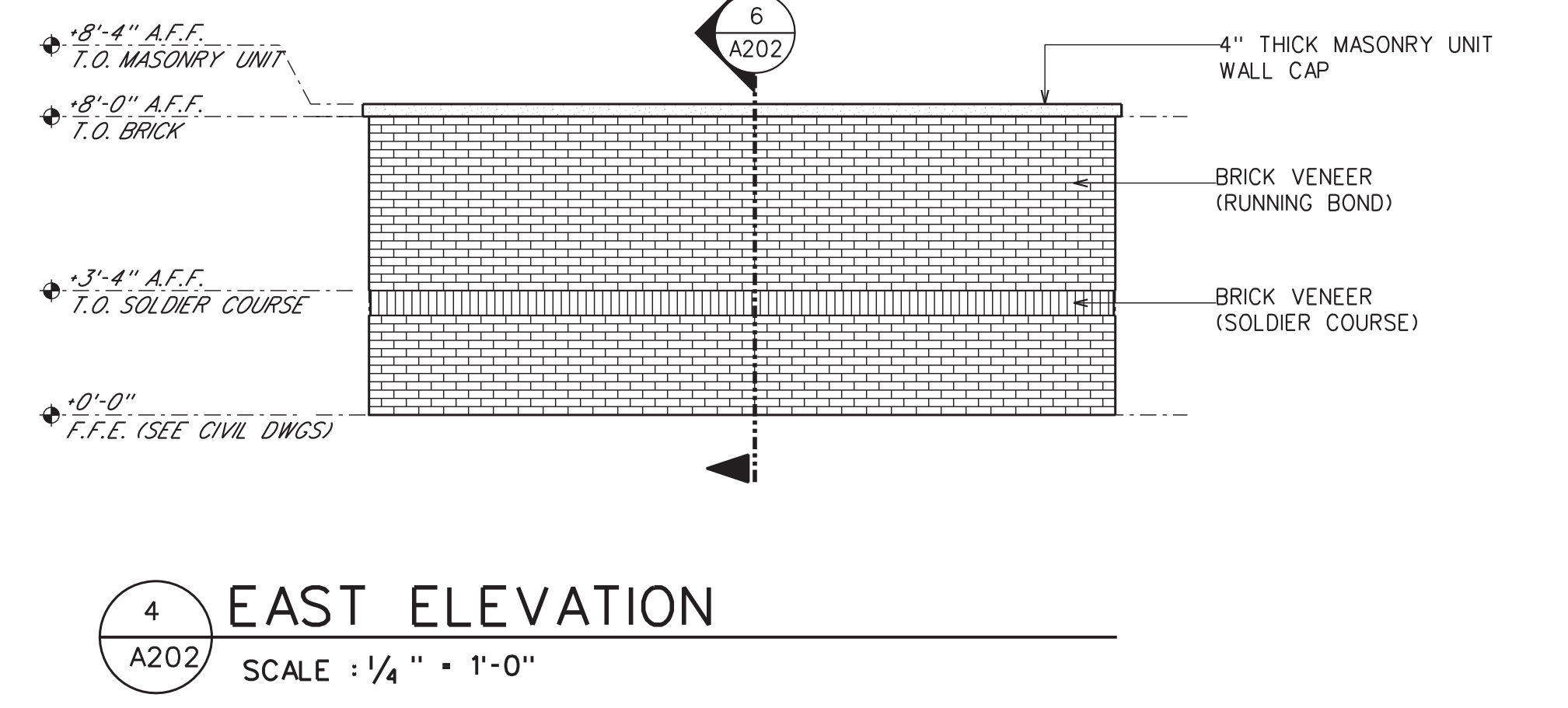
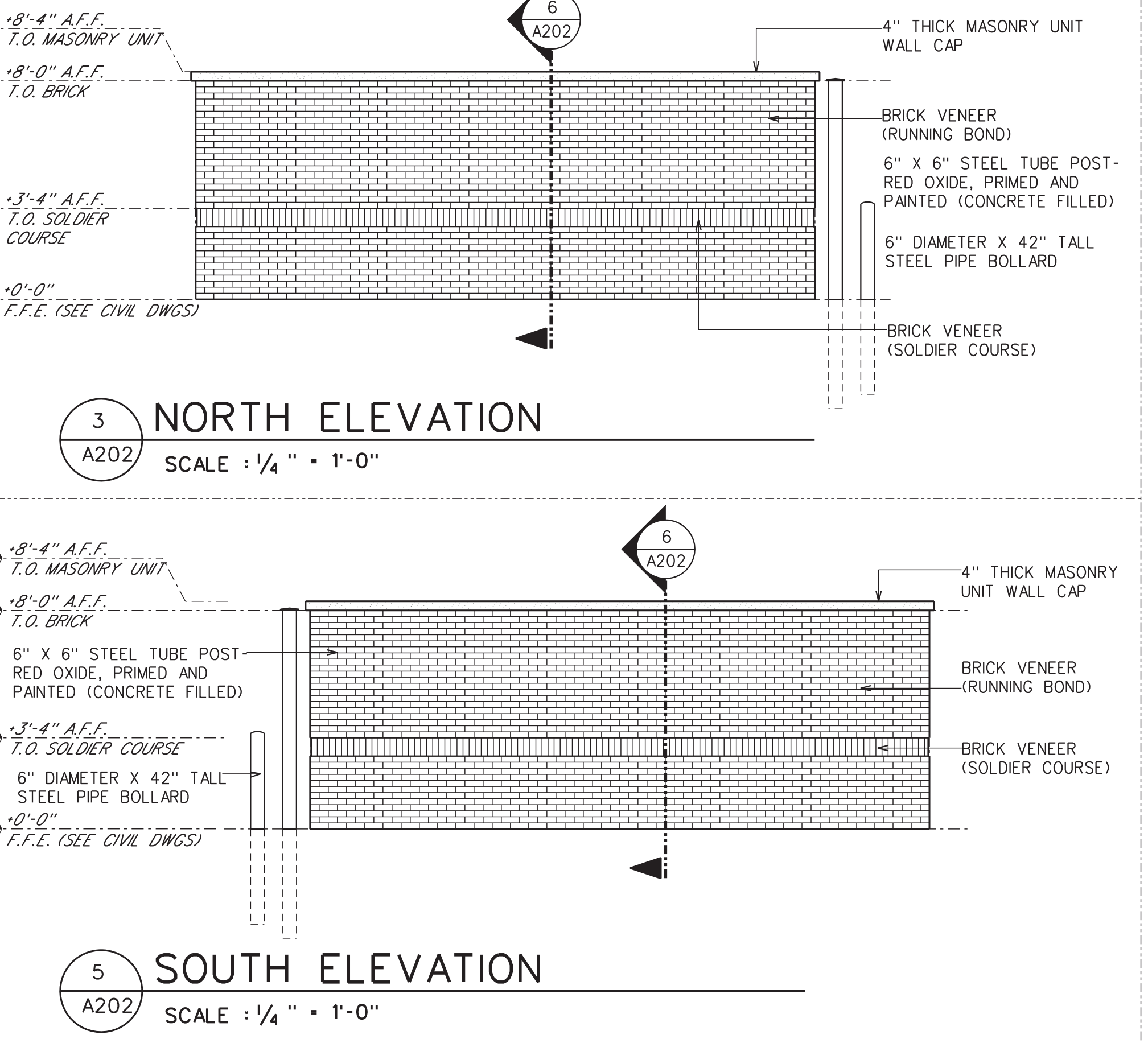
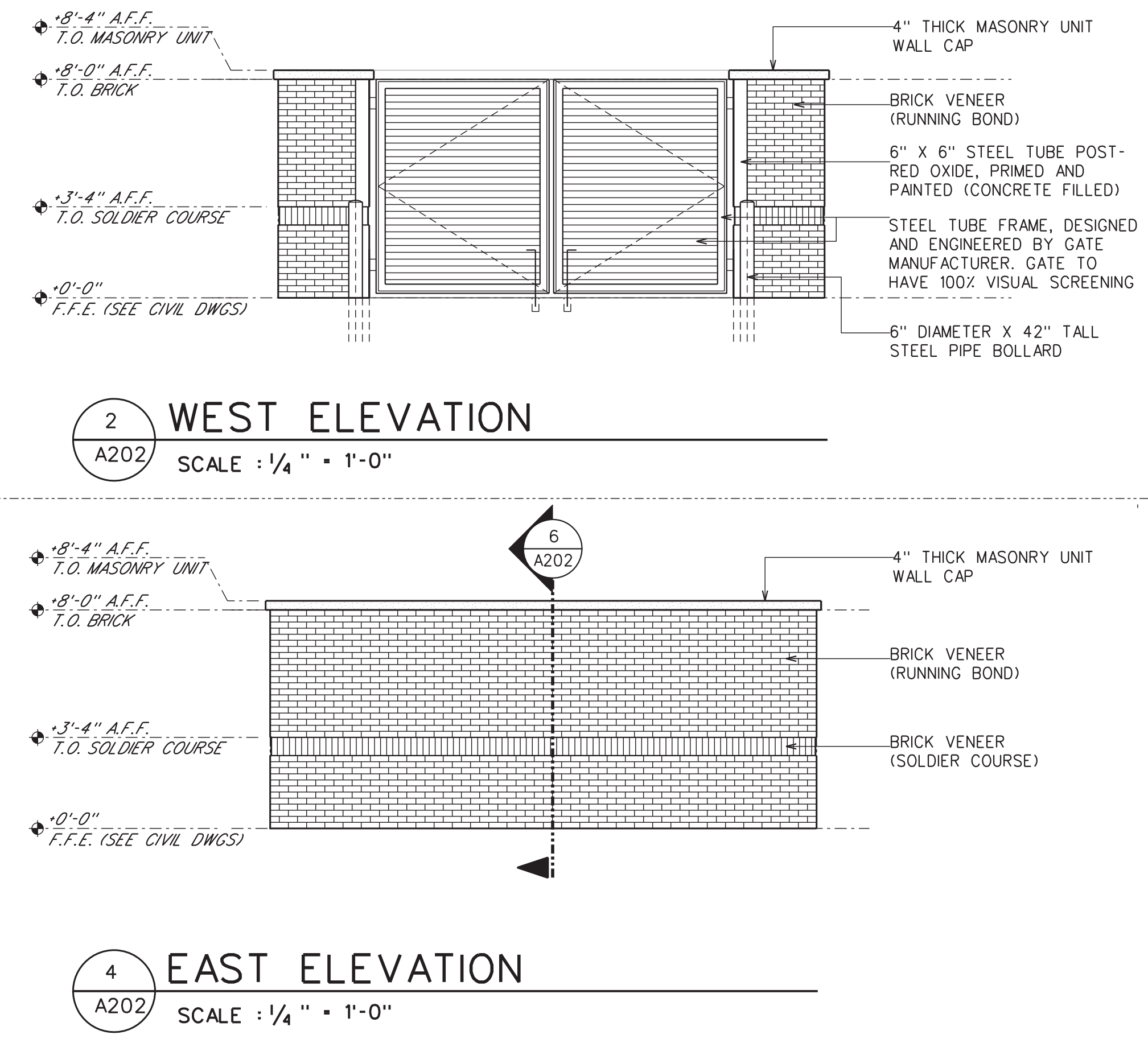
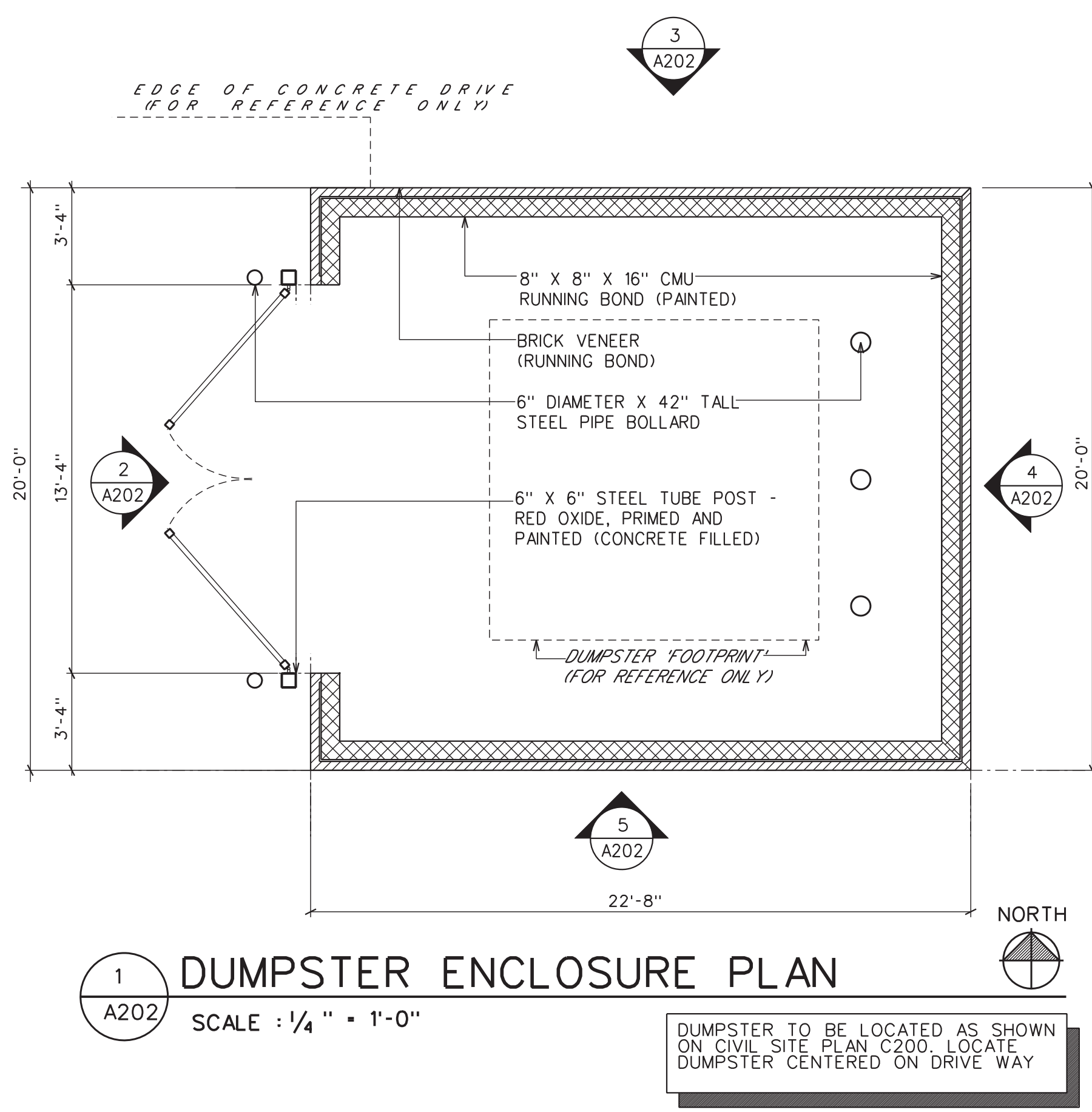
CONSTRUCTION DOCUMENTS

Project No. : 22093  
 Date: APRIL 5, 2023  
 Drawn: JMD, MP, TP, MGL, AH  
 Checked: JAG  
 Revisions: 1 APRIL 17, 2023 - ADDENDUM #1

CITY OF GLUCKSTADT  
 POLICE STATION AND MUNICIPAL COURT  
 GLUCKSTADT, MS

Sheet Number:  
**A104**  
 ROOF PLAN

1 ROOF PLAN  
 A104 SCALE: 3/16" = 1'-0"



3'-1/2" GRAPHIC SCALE  
1'-0" GRAPHIC SCALE  
3/4" GRAPHIC SCALE  
1/2" GRAPHIC SCALE  
1/4" GRAPHIC SCALE

CITY OF GLUCKSTADT POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS



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CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

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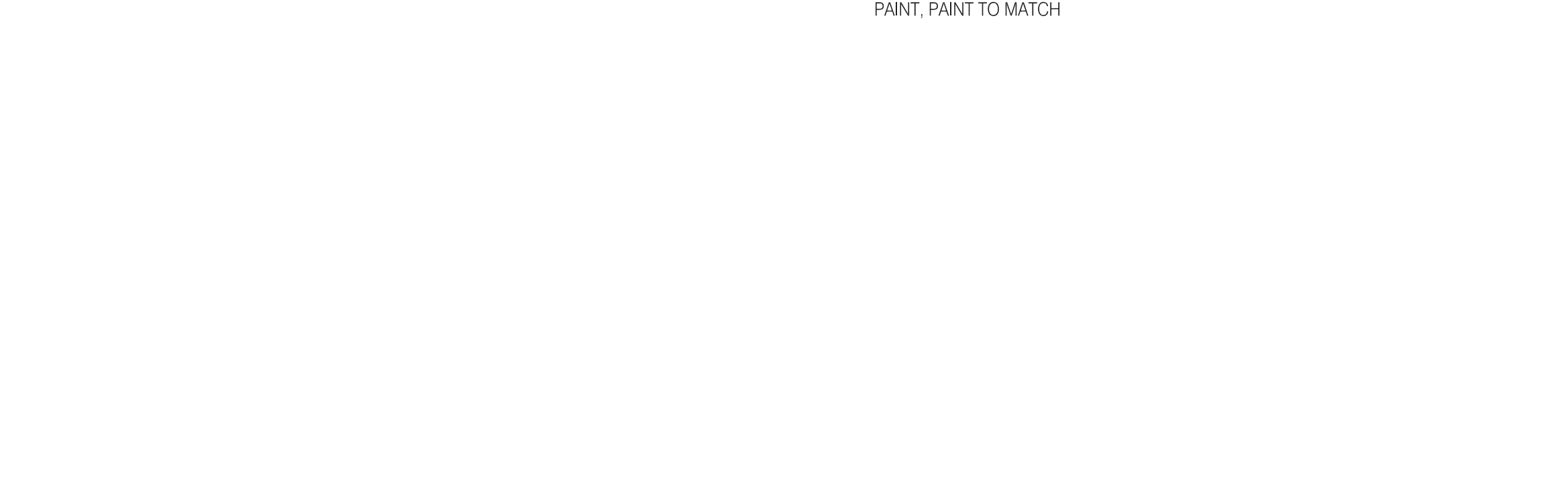
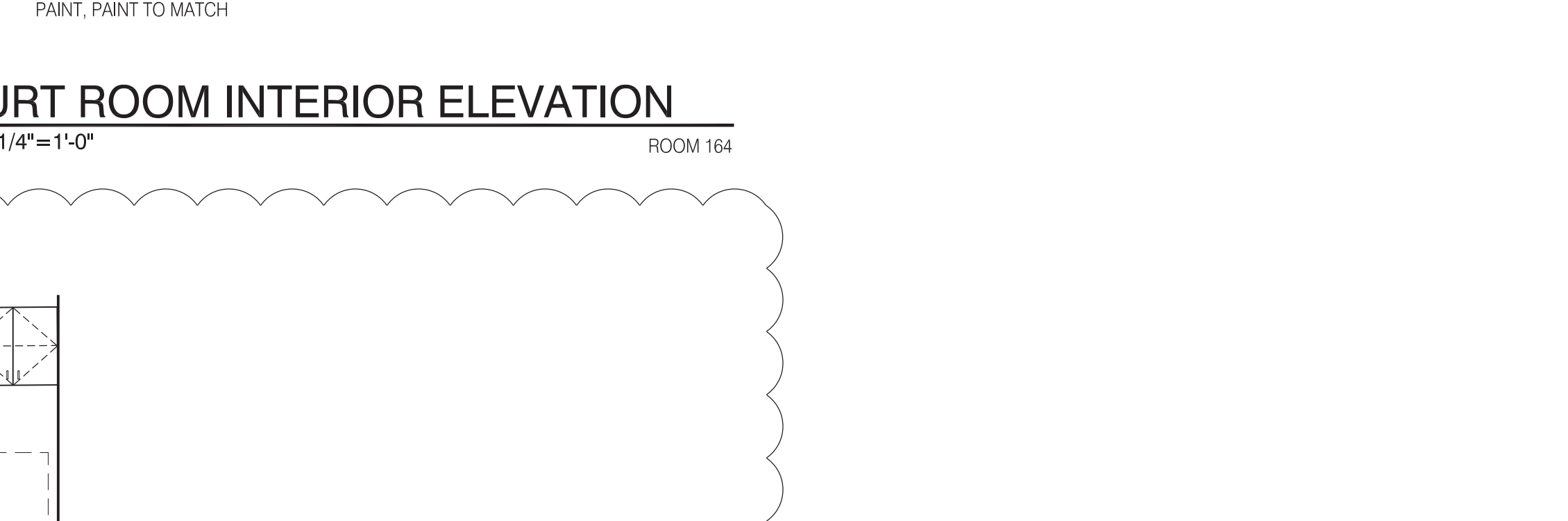
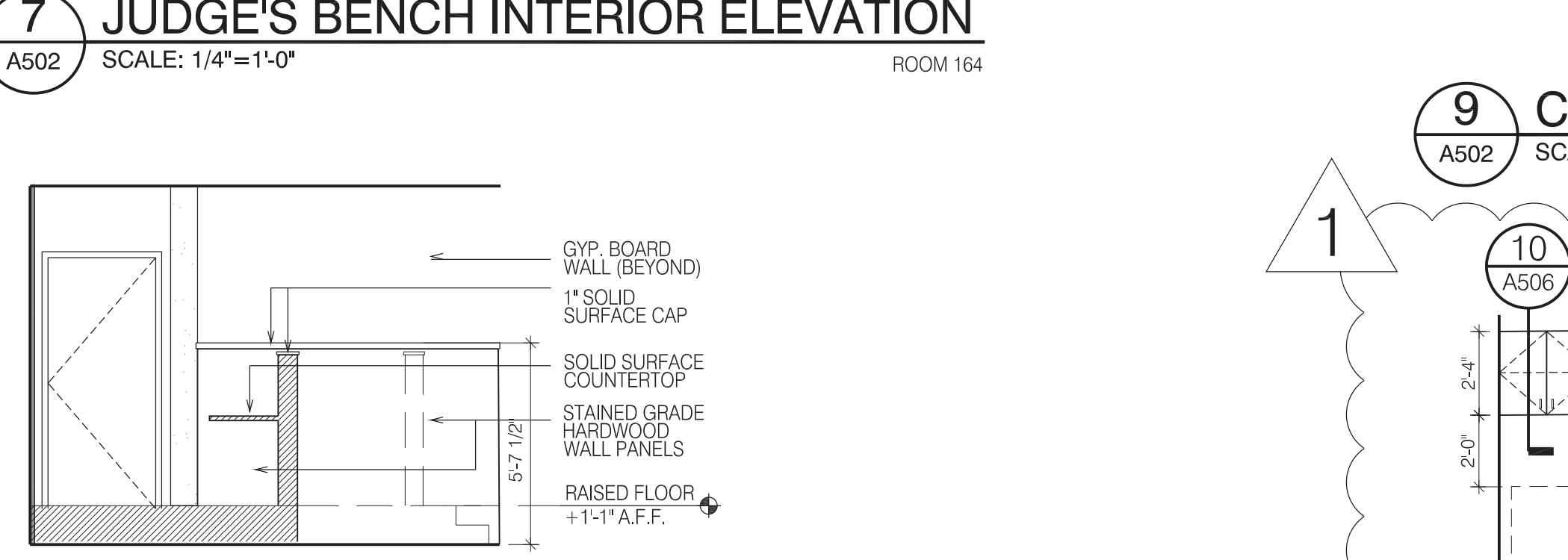
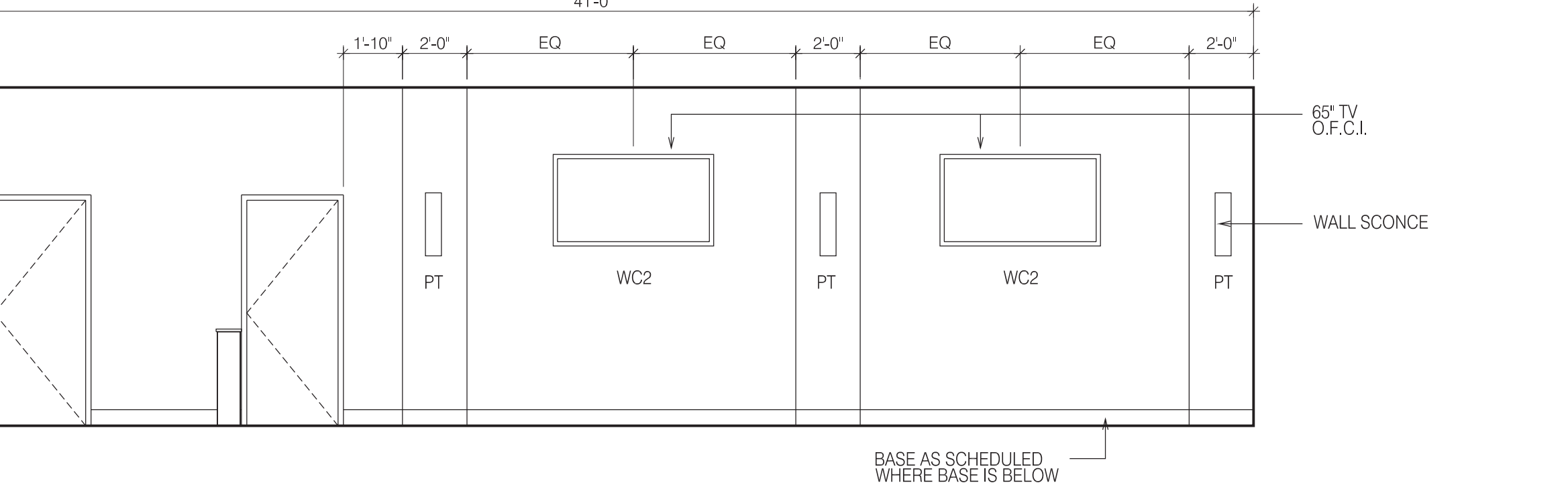
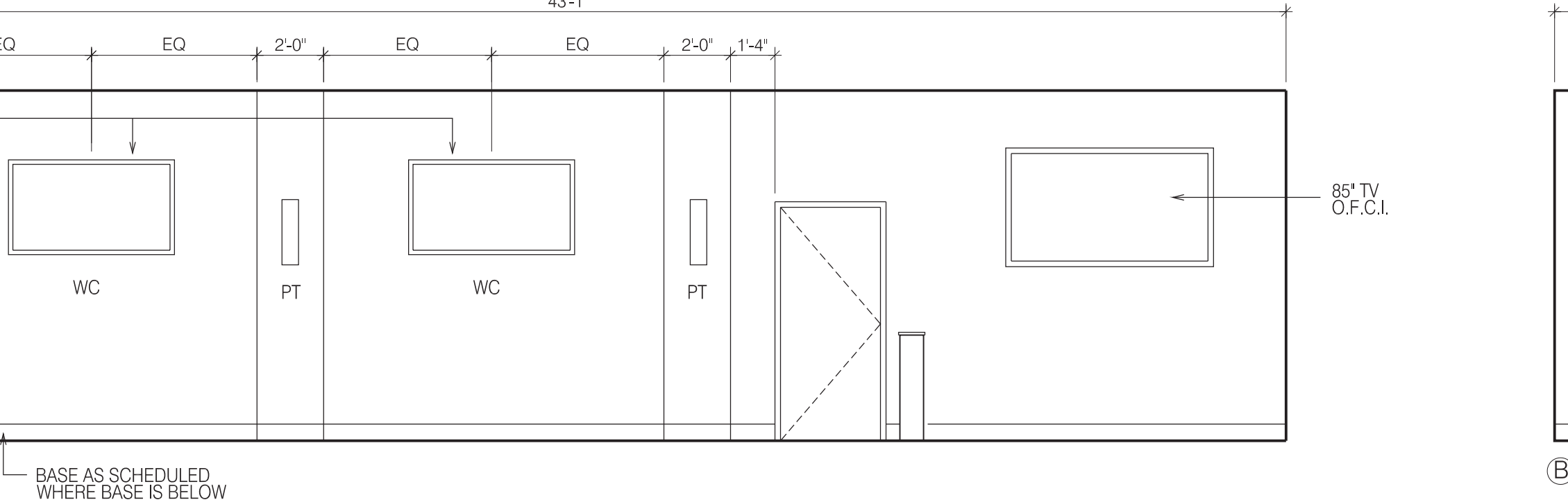
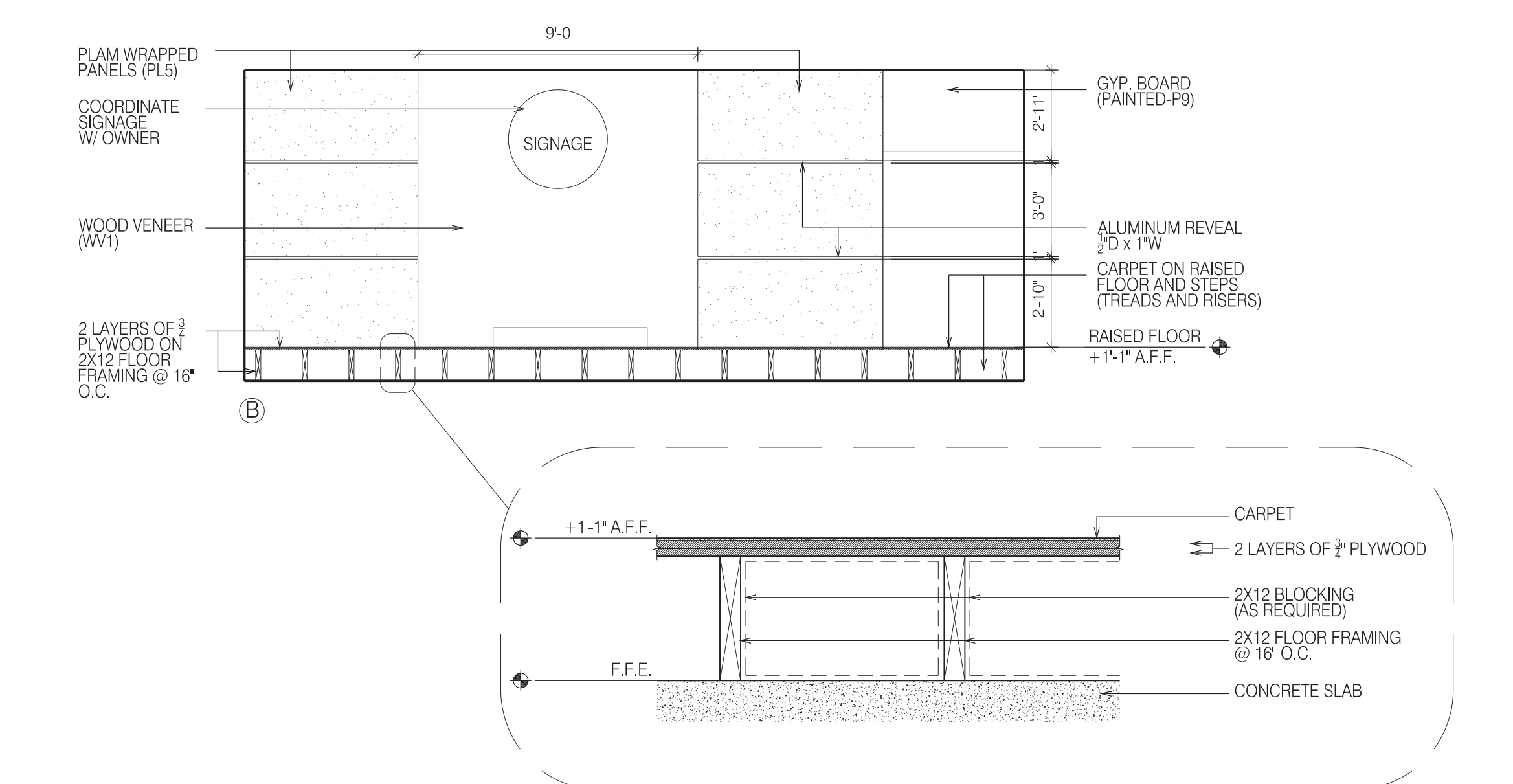
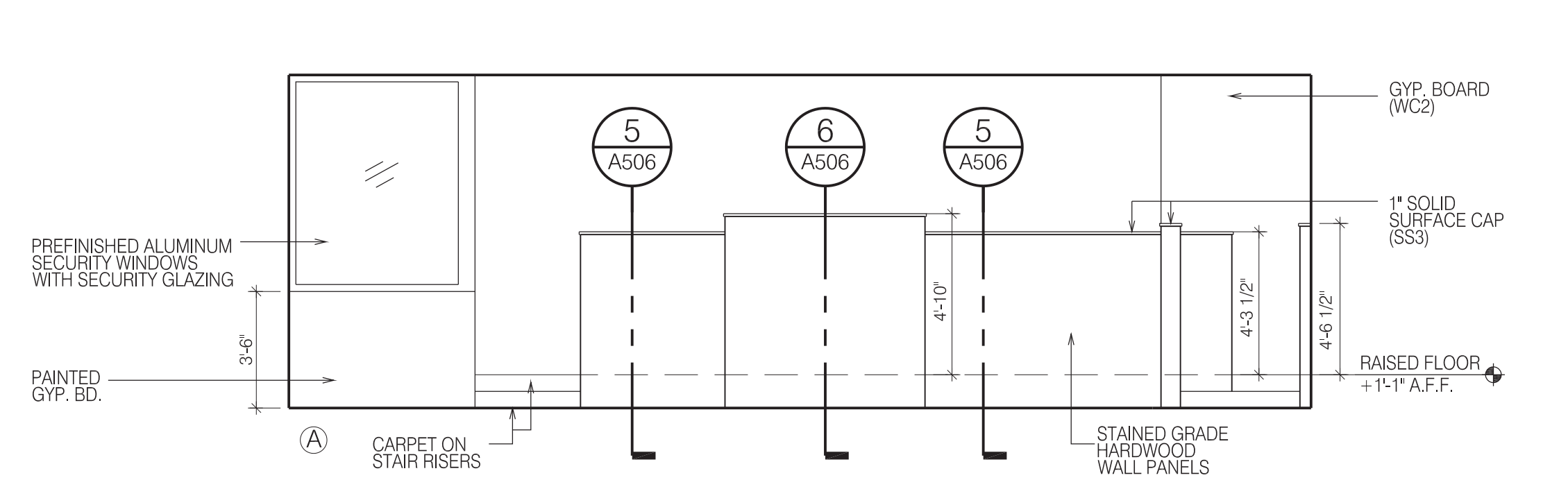
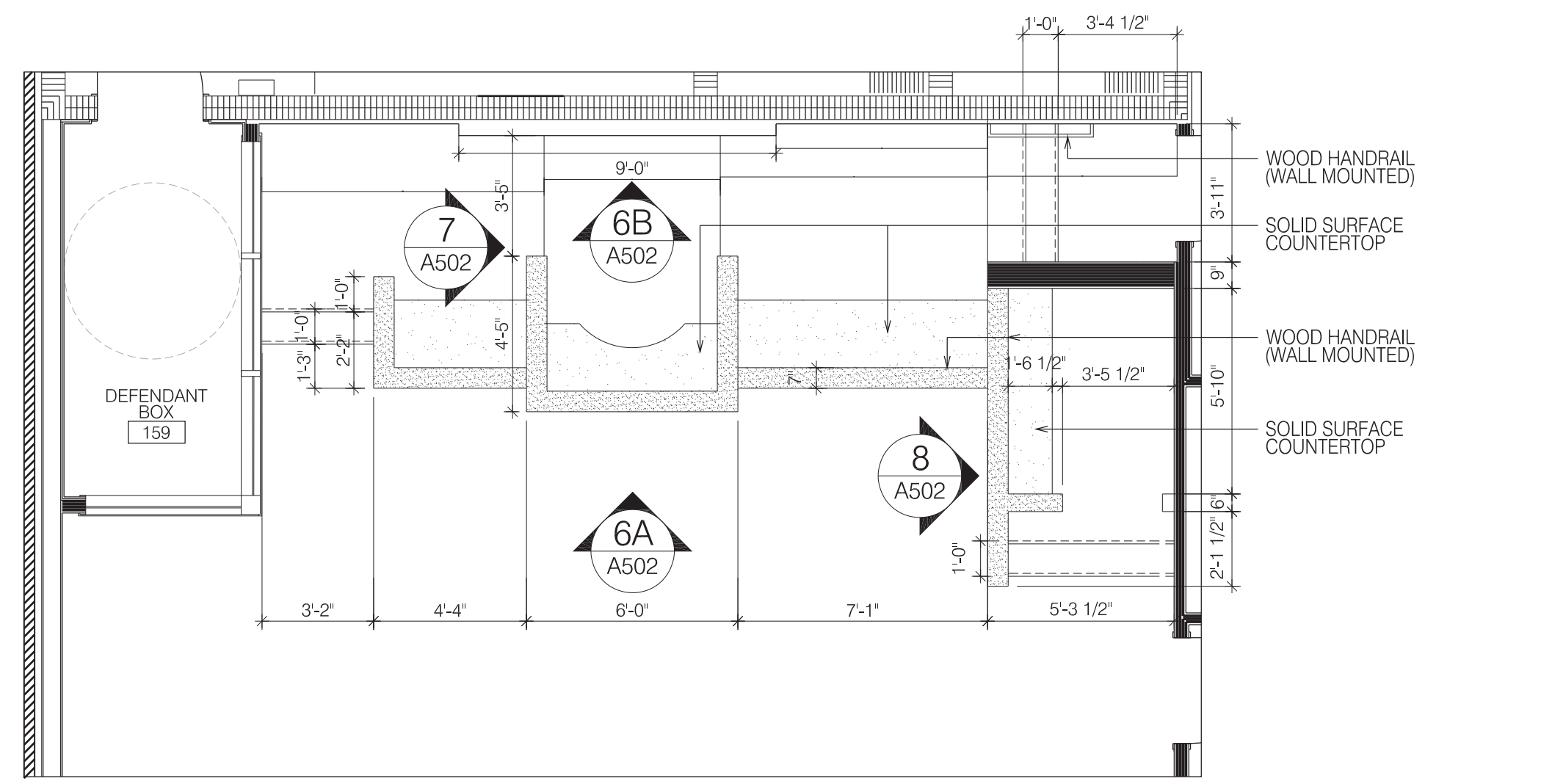
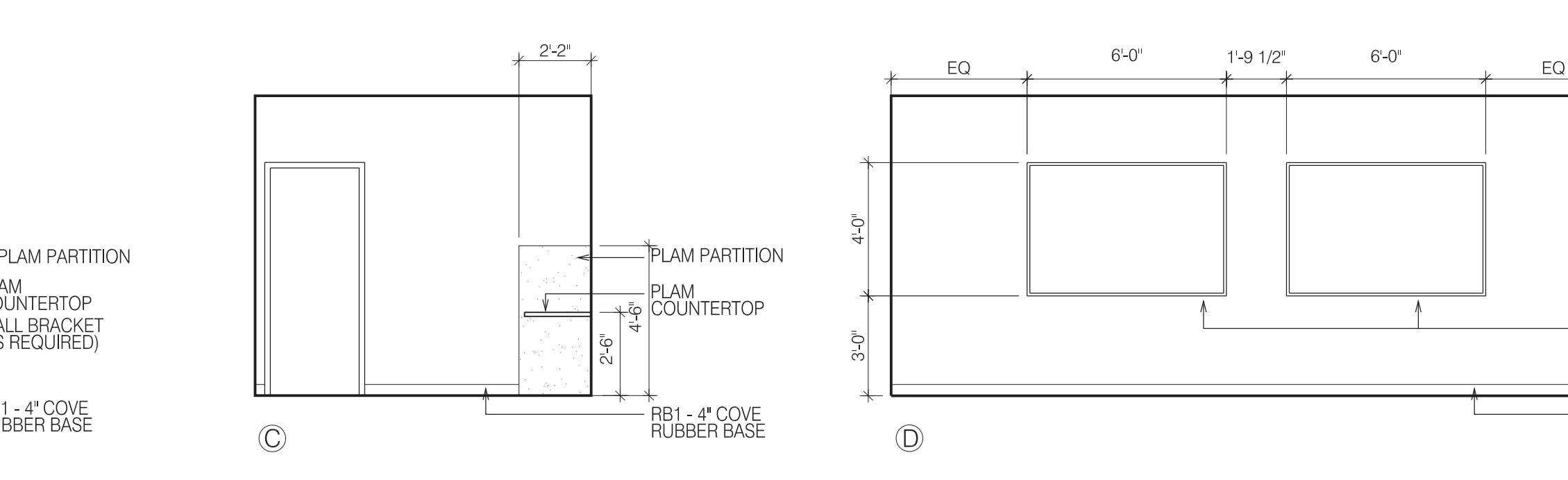
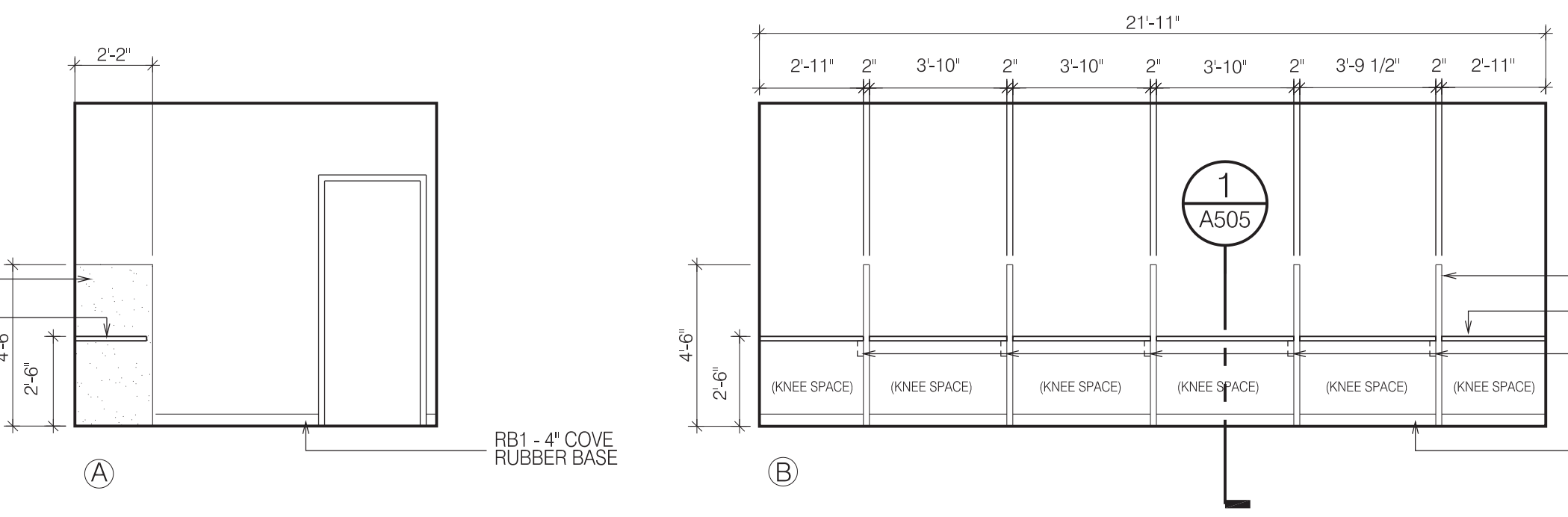
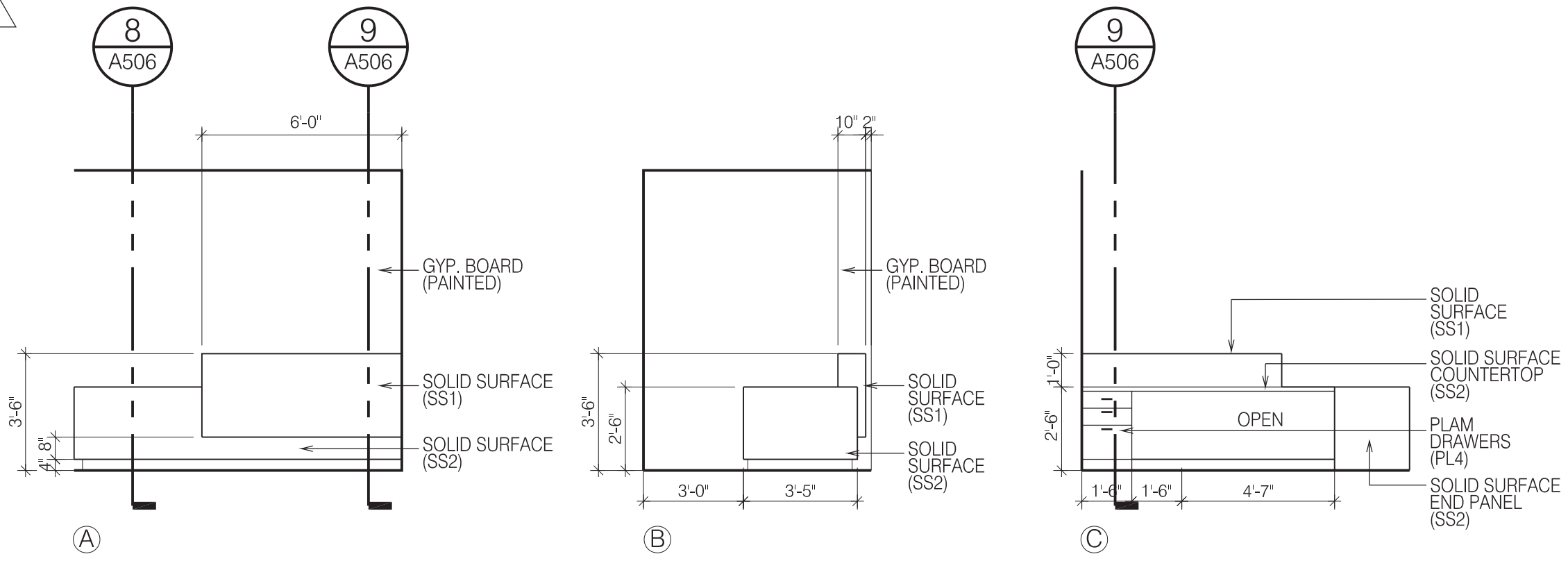
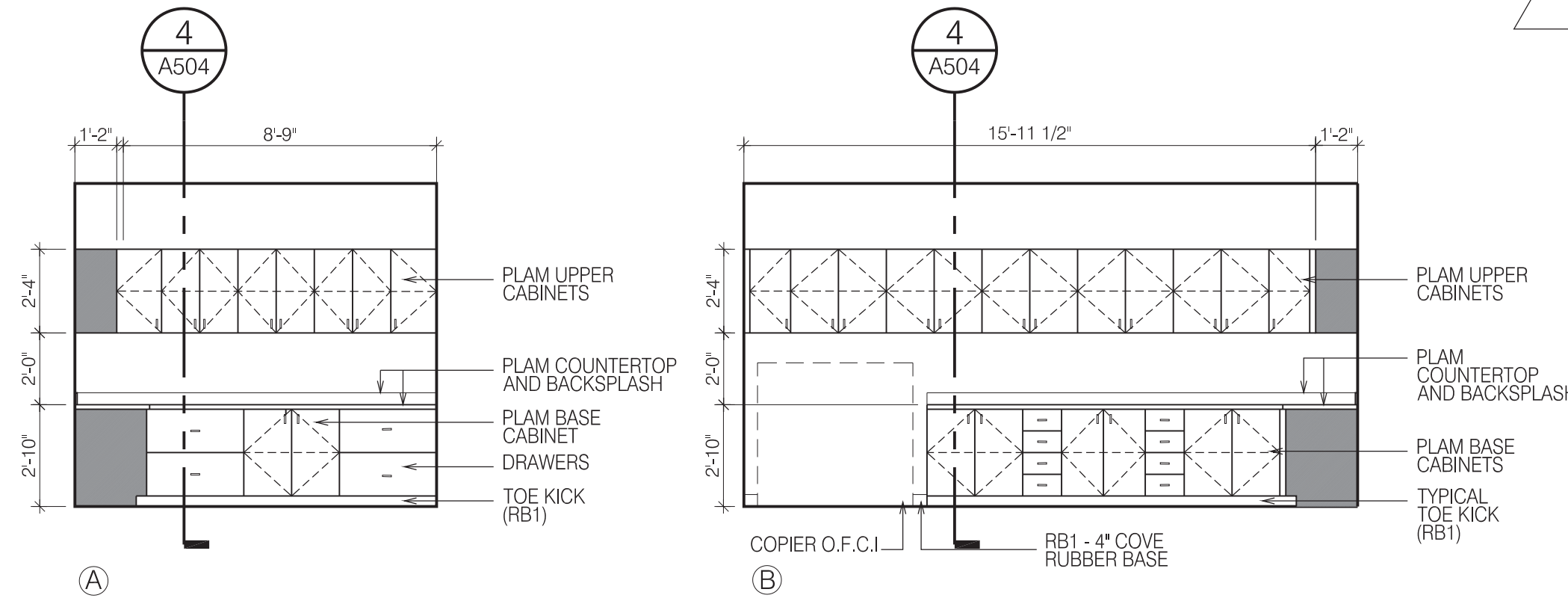
**A502**

INTERIOR ELEVATIONS

**TOILET ACCESSORY LEGEND**

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
A1	42" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS	M	FRAMELESS MIRROR 24"X36" (FCFI) MOUNTED ON 1/2" x 1/2" LONG STAINLESS STEEL STANDOFFS
A2	36" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS	N	BABY CHANGING STATION
A3	18" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS	P	SHOWER SEAT
D	TOILET TISSUE DISPENSER	Q	SHOWER CURTAIN ROD
E	SOAP DISPENSER	R	SHOWER TOWEL BAR
F	PAPER TOWEL DISPENSER	S	MOP AND BROOM HOLDER
G	ROBE HOOK ON ROOM-SIDE OF DOOR (FCFI); TYPICAL IN OFFICES AND RESTROOMS MOUNTING HEIGHT 4'-6" A.F.F. UNLESS NOTED OTHERWISE	T	TRASH BIN
H	FRAMED MIRROR		
K			
L	SANITARY NAPKIN DISPOSAL, ALL UNI-SEX RESTROOMS		

NOTES: ANY ACCESSORY NOT NOTED AS O.F.C.I. IS TO BE CONTRACTOR FURNISHED CONTRACTOR INSTALLED (CFCI)  
ALL WALL MOUNTED TOILET ACCESSORIES, SIGNAGE, AND/OR EQUIPMENT (CONTRACTOR OR OWNER FURNISHED) TO RECEIVE IN-WALL BLOCKING.

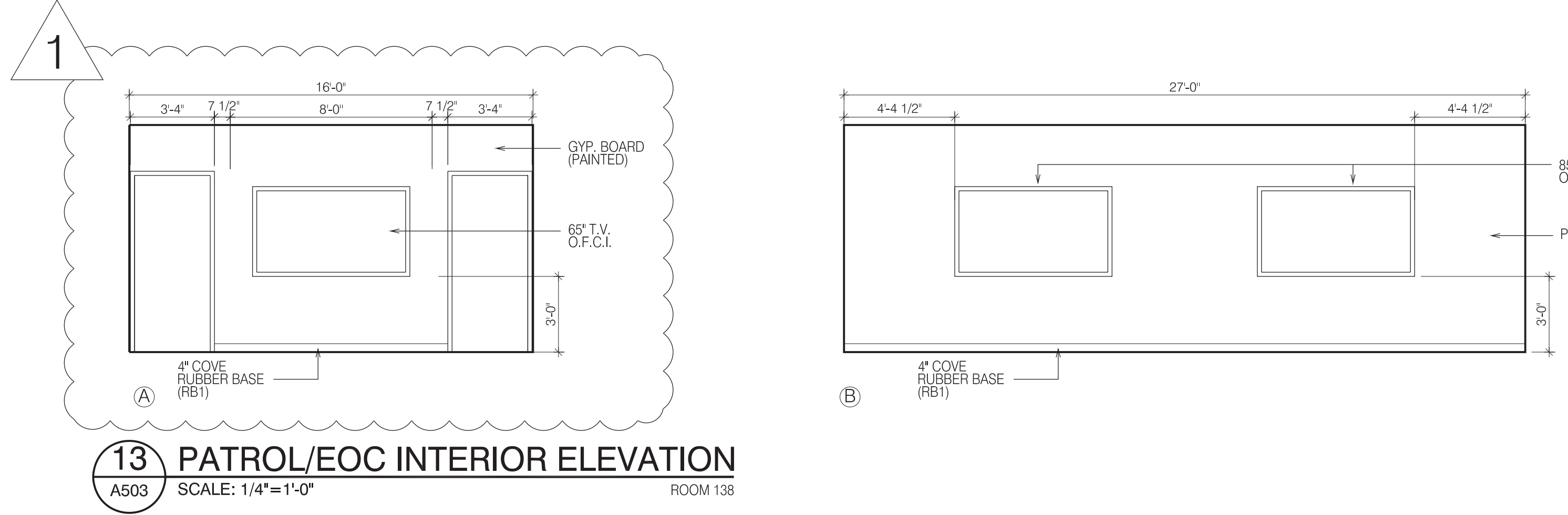
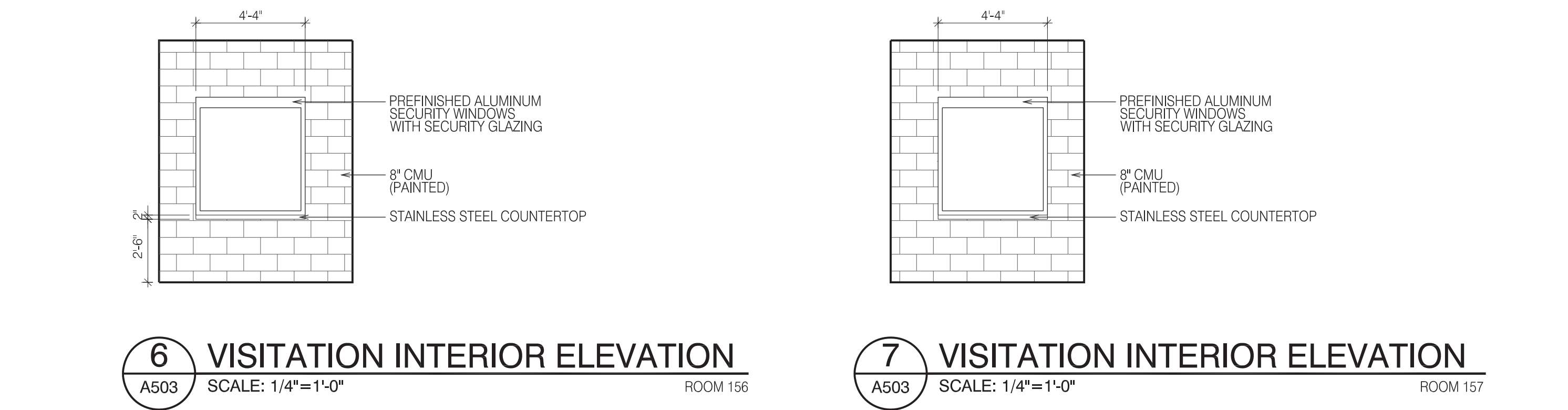
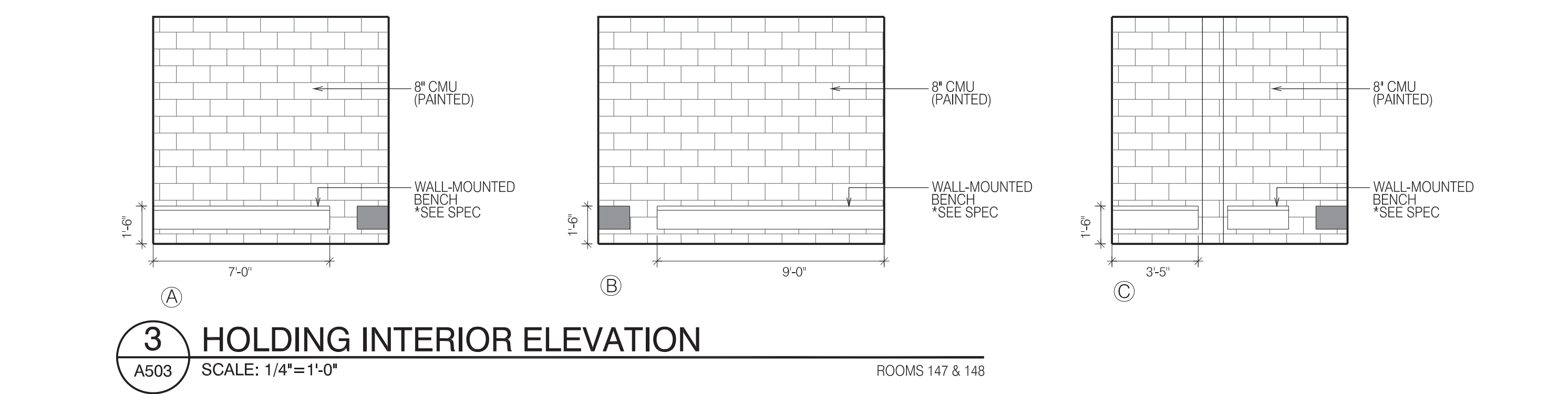
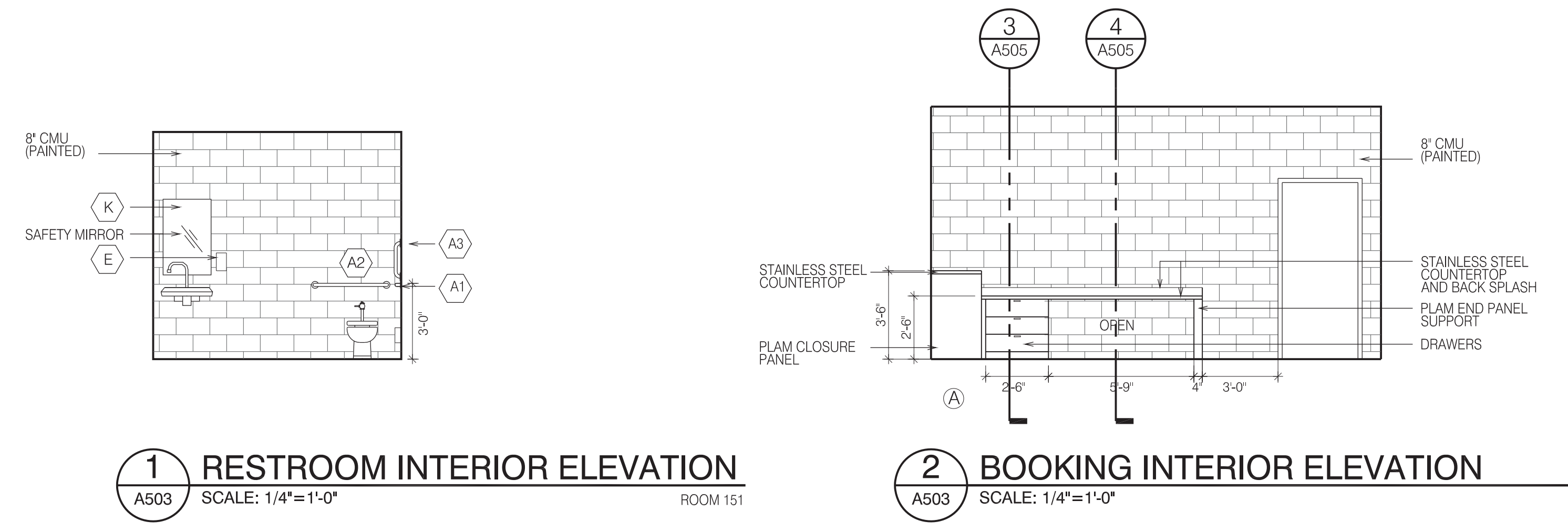


3" = 1'-0" GRAPHIC SCALE  
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1" = 1'-0" GRAPHIC SCALE  
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1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE  
1/8" = 1'-0" GRAPHIC SCALE

TOILET ACCESSORY LEGEND

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
(A1)	42" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS	(M)	FRAMELESS MIRROR, 24"x36" (FCI) MOUNTED ON 1/2" x 1/2" LONG STAINLESS STEEL STANDOFFS
(A2)	36" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS	(N)	BABY CHANGING STATION
(A3)	18" GRAB BARS - INSTALL TO MEET ADA REQUIREMENTS	(P)	SHOWER SEAT
(D)	TOILET TISSUE DISPENSER	(Q)	SHOWER CURTAIN ROD
(E)	SOAP DISPENSER	(R)	SHOWER TOWEL BAR
(F)	PAPER TOWEL DISPENSER	(S)	MOP AND BROOM HOLDER
(G)	ROBE HOOK ON ROOM-SIDE OF DOOR (FCI); TYPICAL IN OFFICES AND RESTROOMS. MOUNTING HEIGHT 4'-6" A.F.F. UNLESS NOTED OTHERWISE	(T)	TRASH BIN
(K)	FRAMED MIRROR		
(L)	SANITARY NAPKIN DISPOSAL, ALL UNI-SEX RESTROOMS		

NOTES: ANY ACCESSORY NOT NOTED AS OFCI IS TO BE CONTRACTOR FURNISHED CONTRACTOR INSTALLED (CFCI)  
ALL WALL MOUNTED TOILET ACCESSORIES, SIGNAGE, AND/OR EQUIPMENT (CONTRACTOR OR OWNER FURNISHED) TO RECEIVE IN-WALL BLOCKING.



3" = 1'-0" GRAPHIC SCALE  
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1" = 1'-0" GRAPHIC SCALE  
3/4" = 1'-0" GRAPHIC SCALE  
1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE  
1/8" = 1'-0" GRAPHIC SCALE



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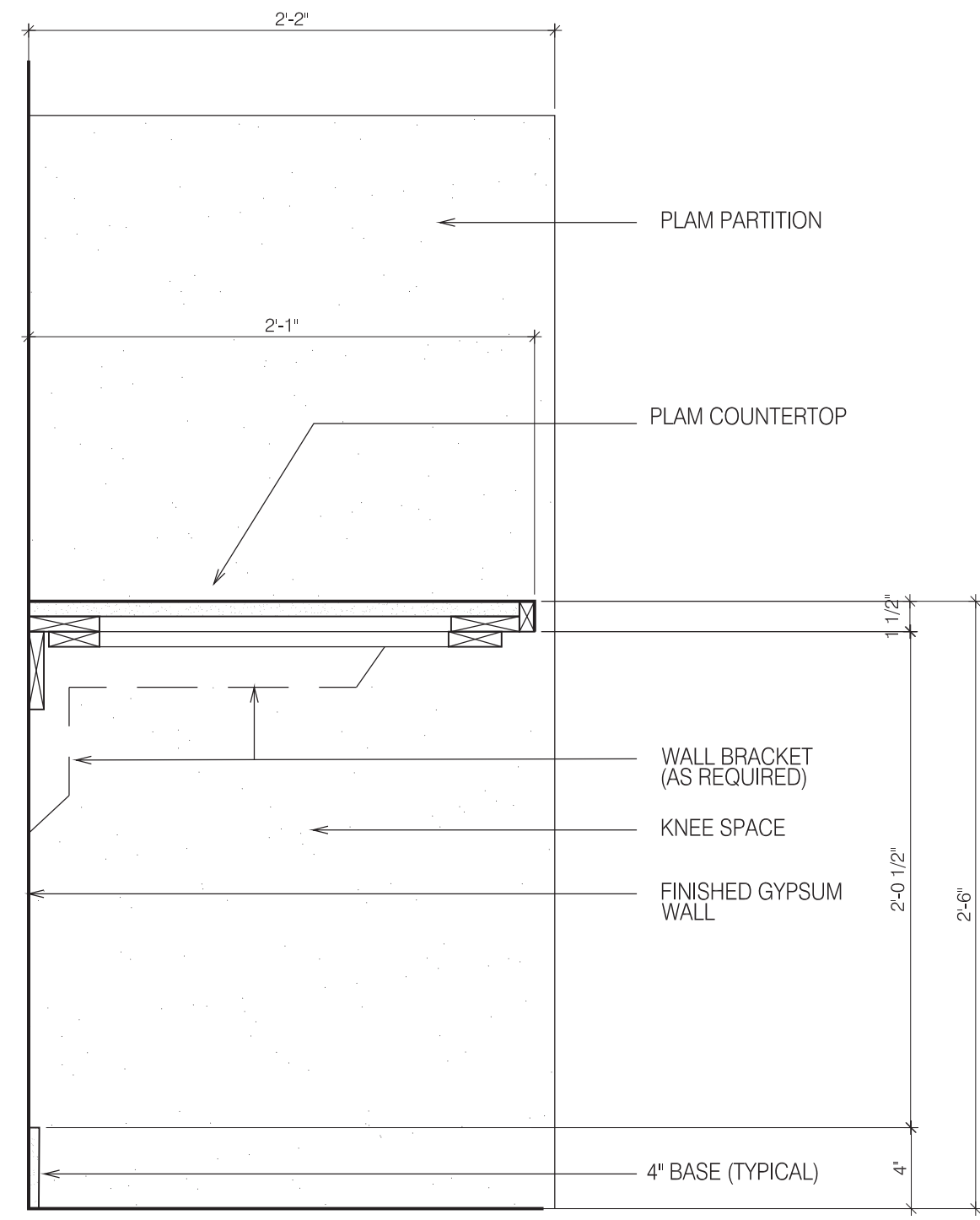
Project No. : 22093  
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APRIL 17, 2023 - ADDENDUM #1

CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

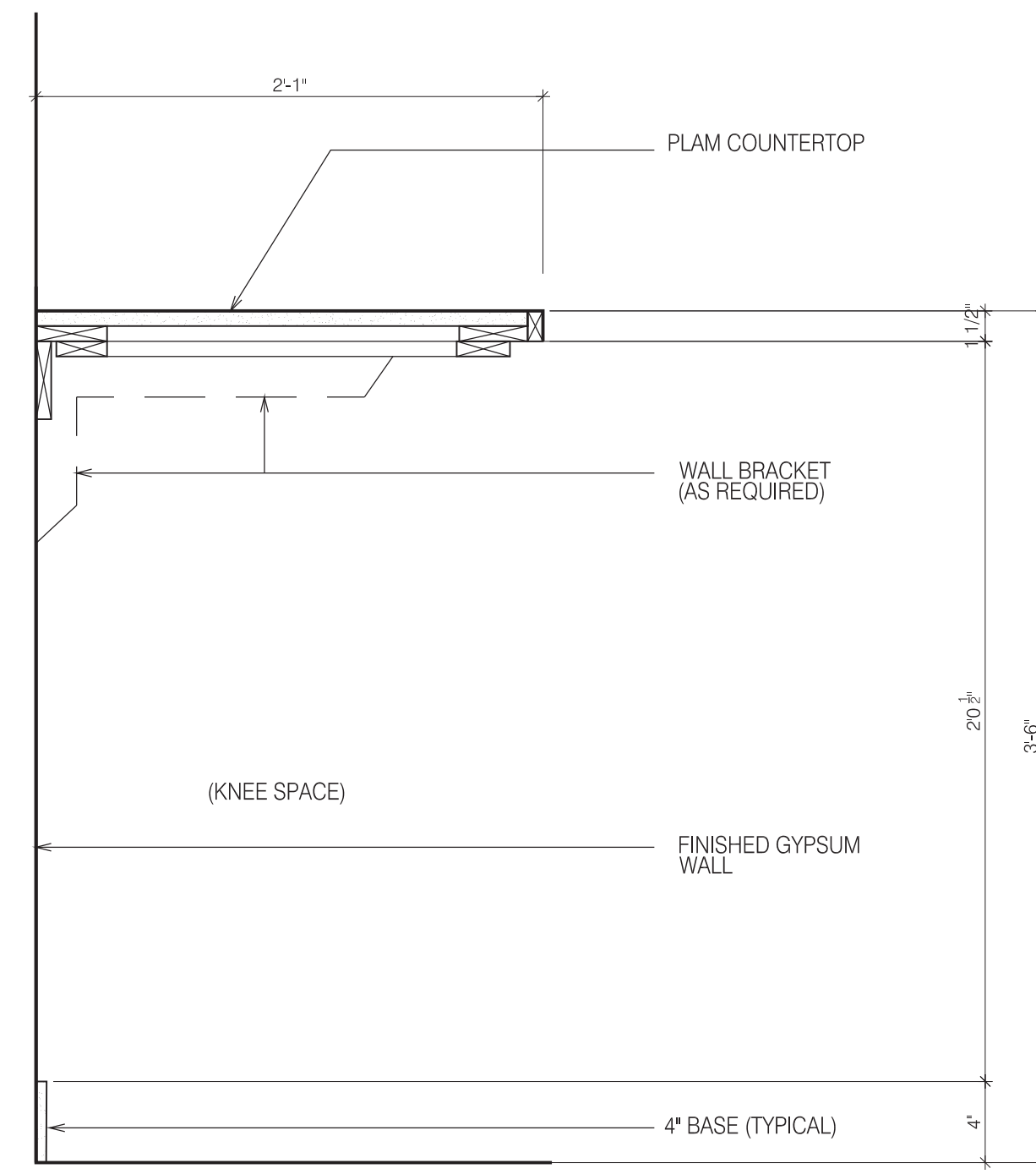
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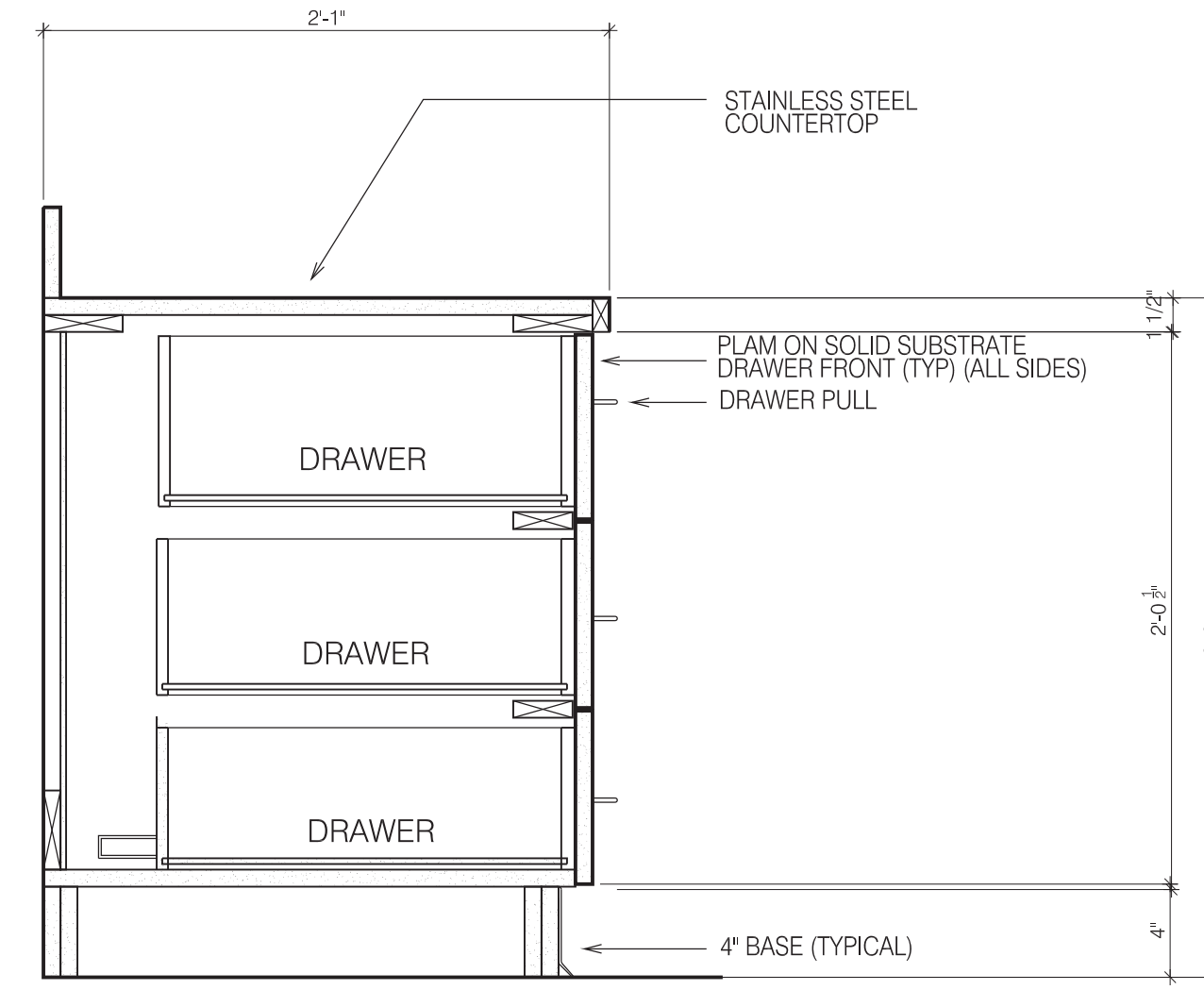
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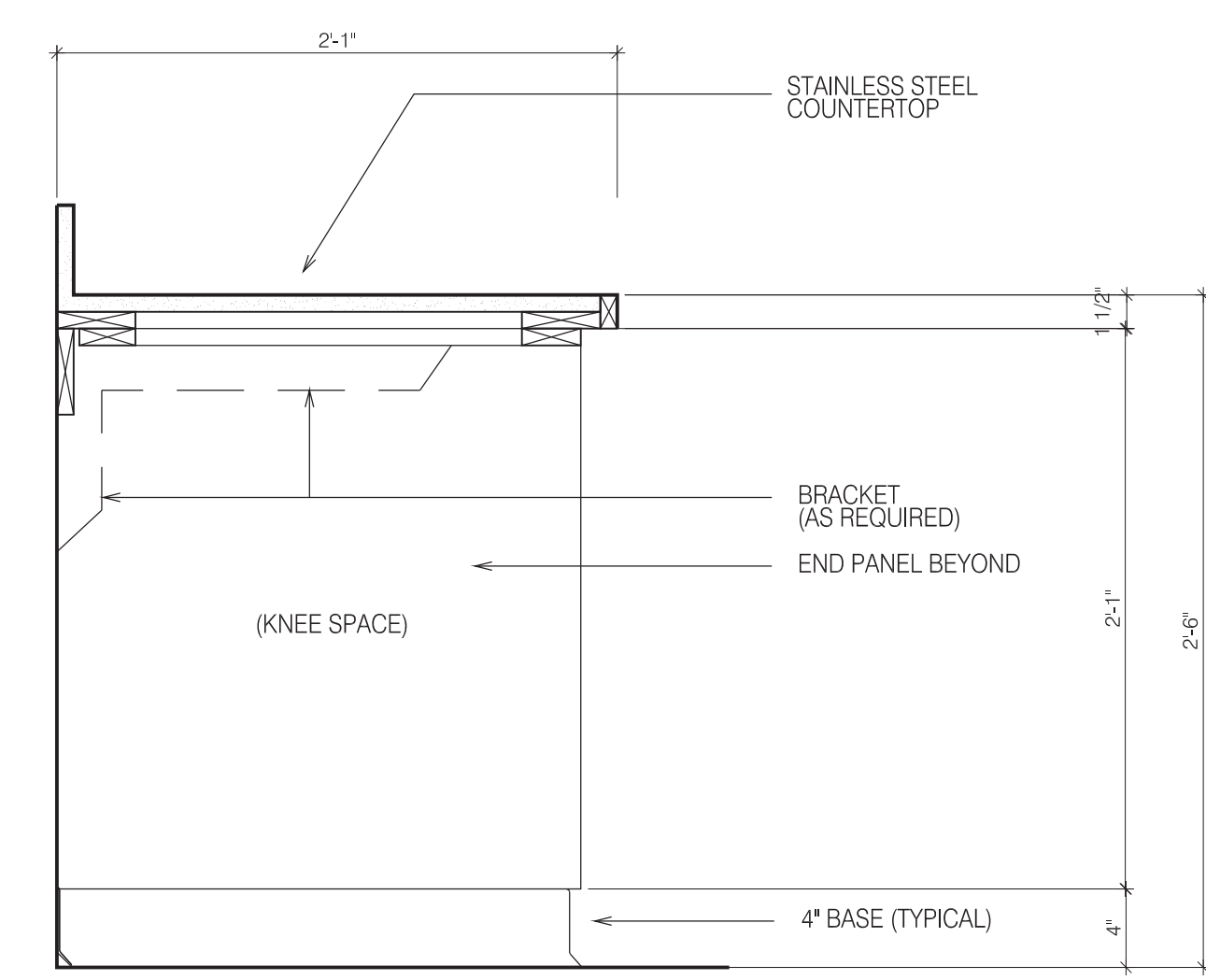
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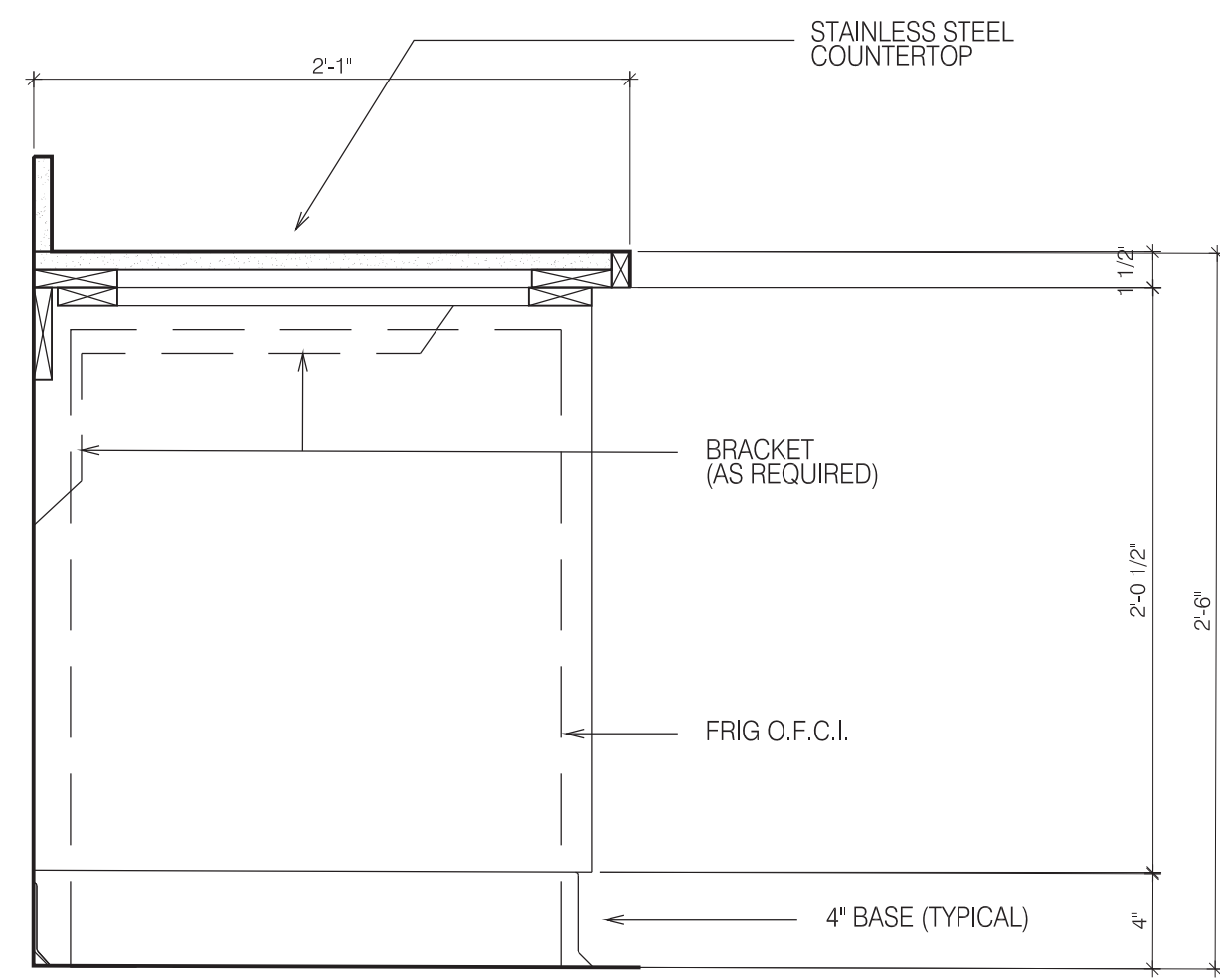
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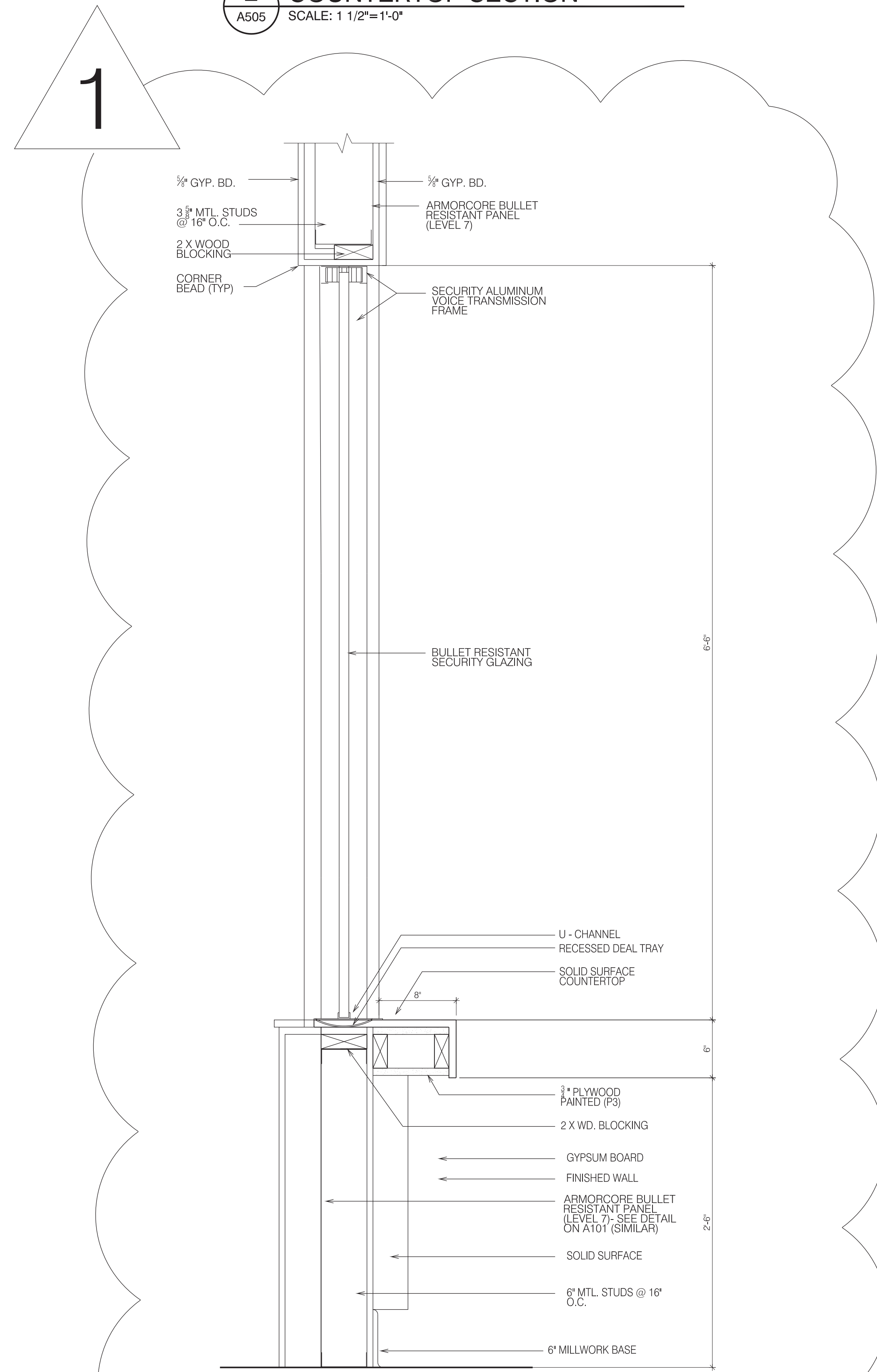
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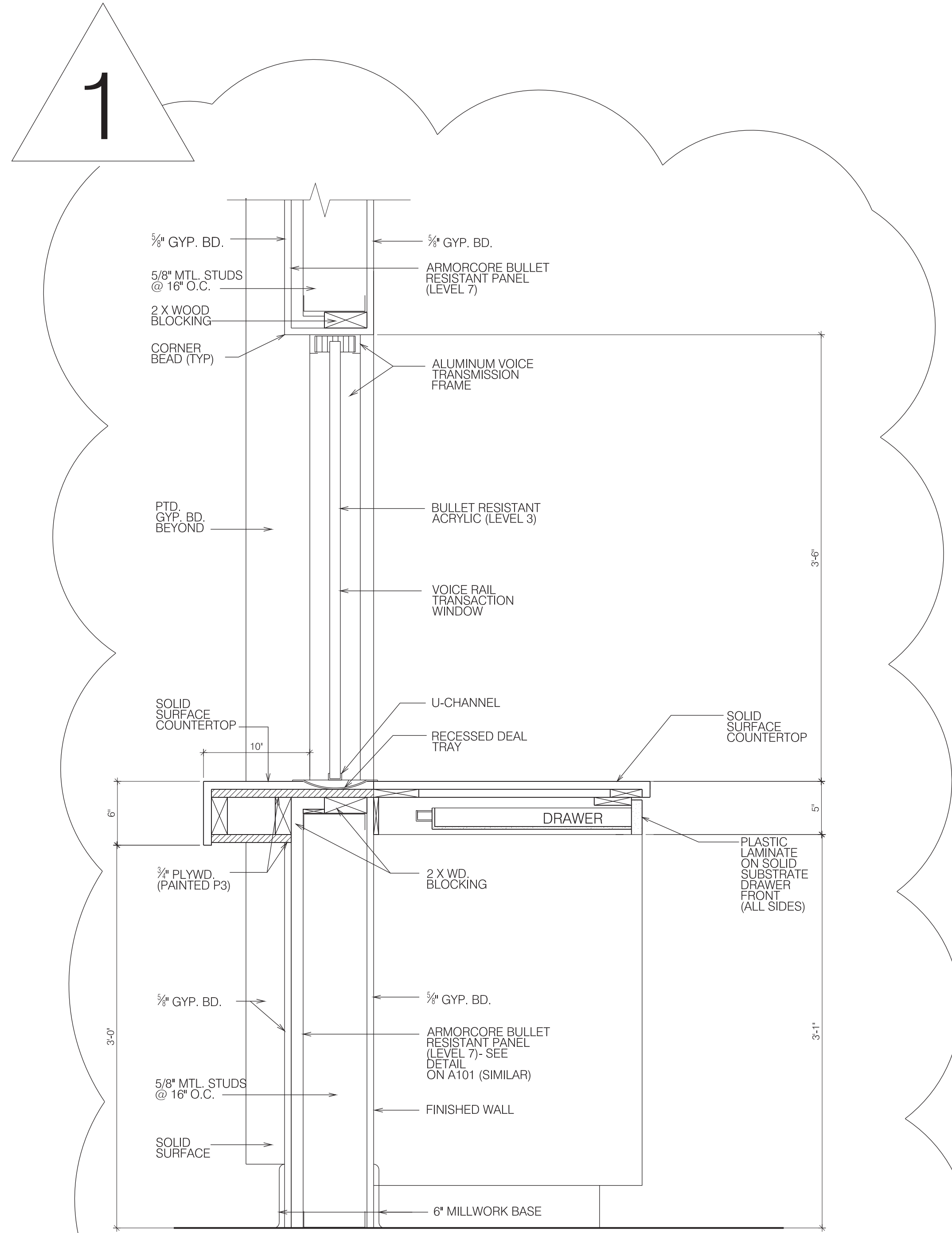
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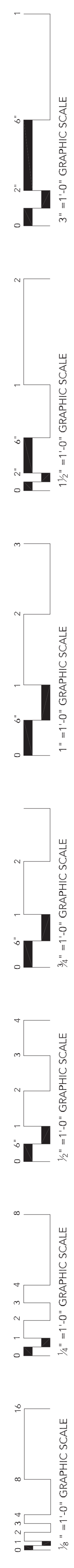
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**6 DISPATCH MILLWORK SECTION**  
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**7 PAY COUNTER MILLWORK SECTION**  
A505 SCALE: 1 1/2\"/>



GLUCKSTADT POLICE STATION  
GLUCKSTADT, MS



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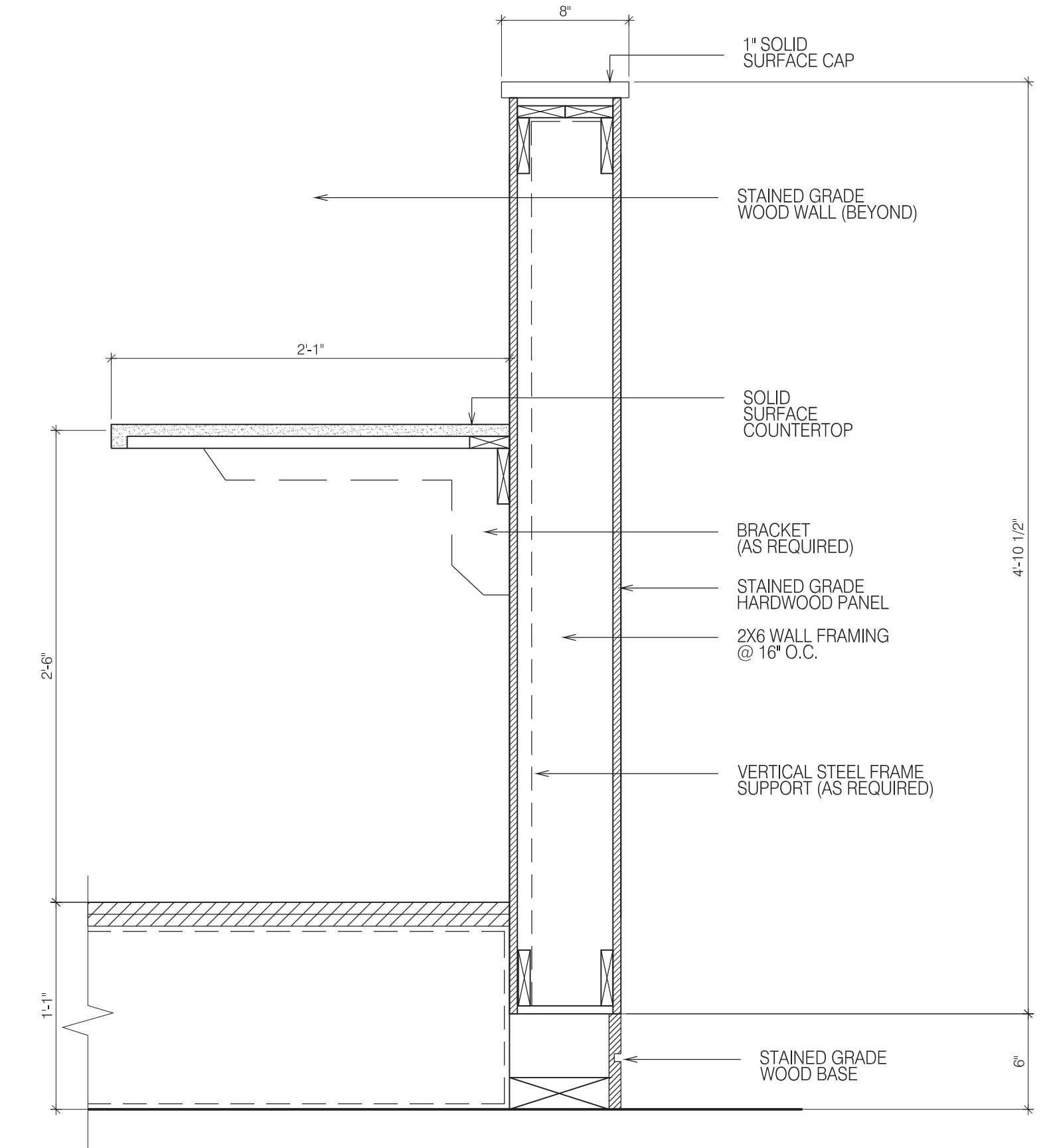
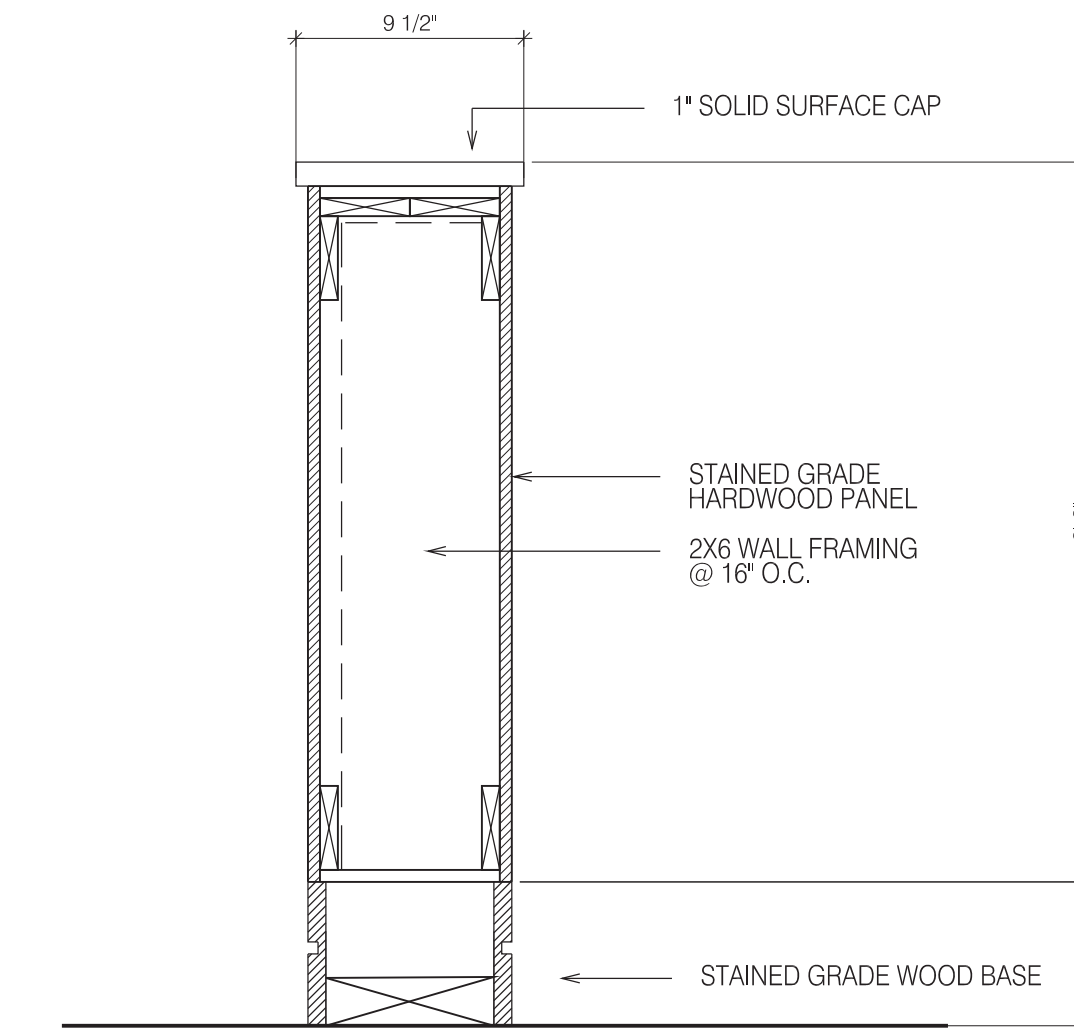
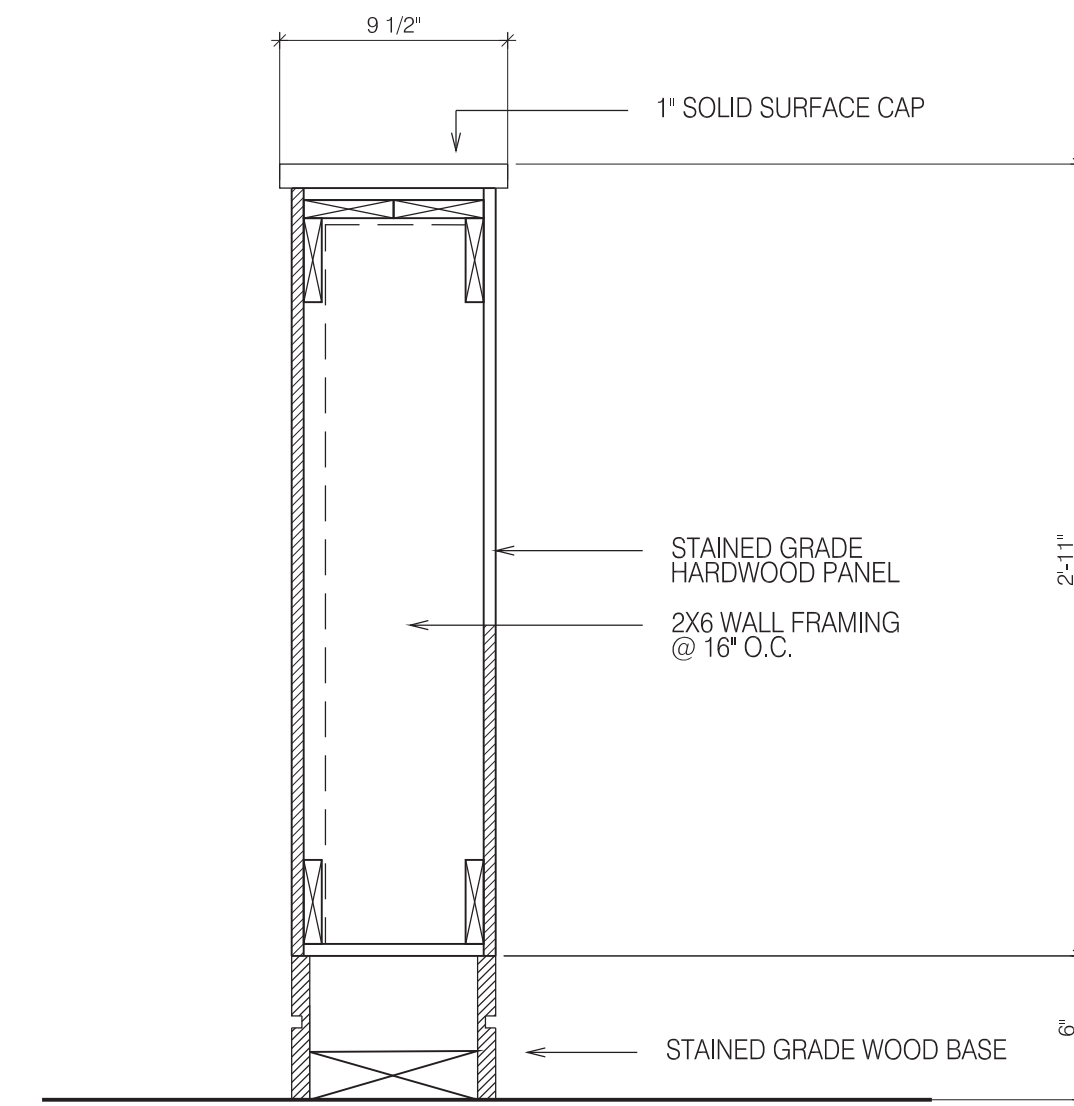
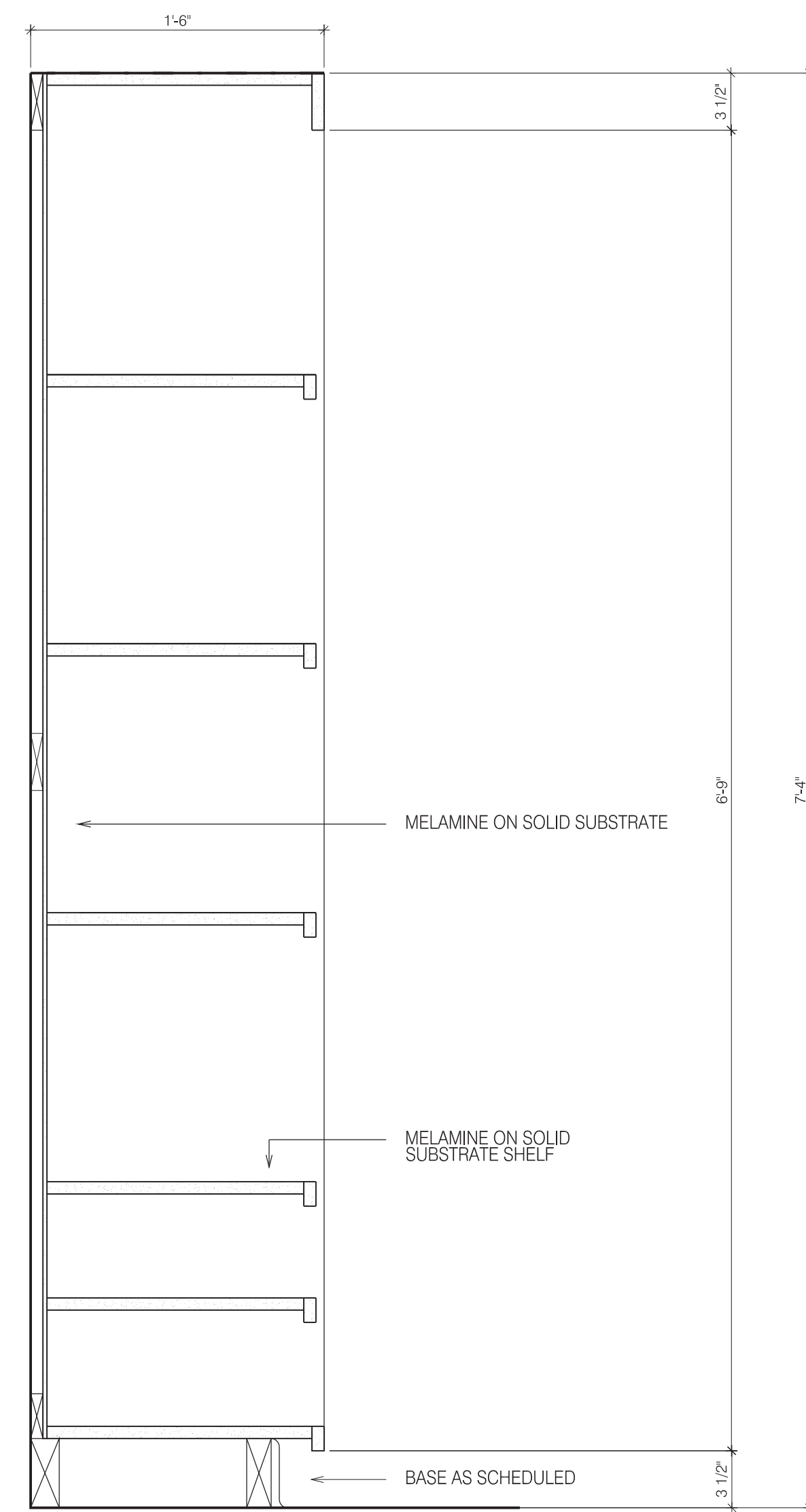
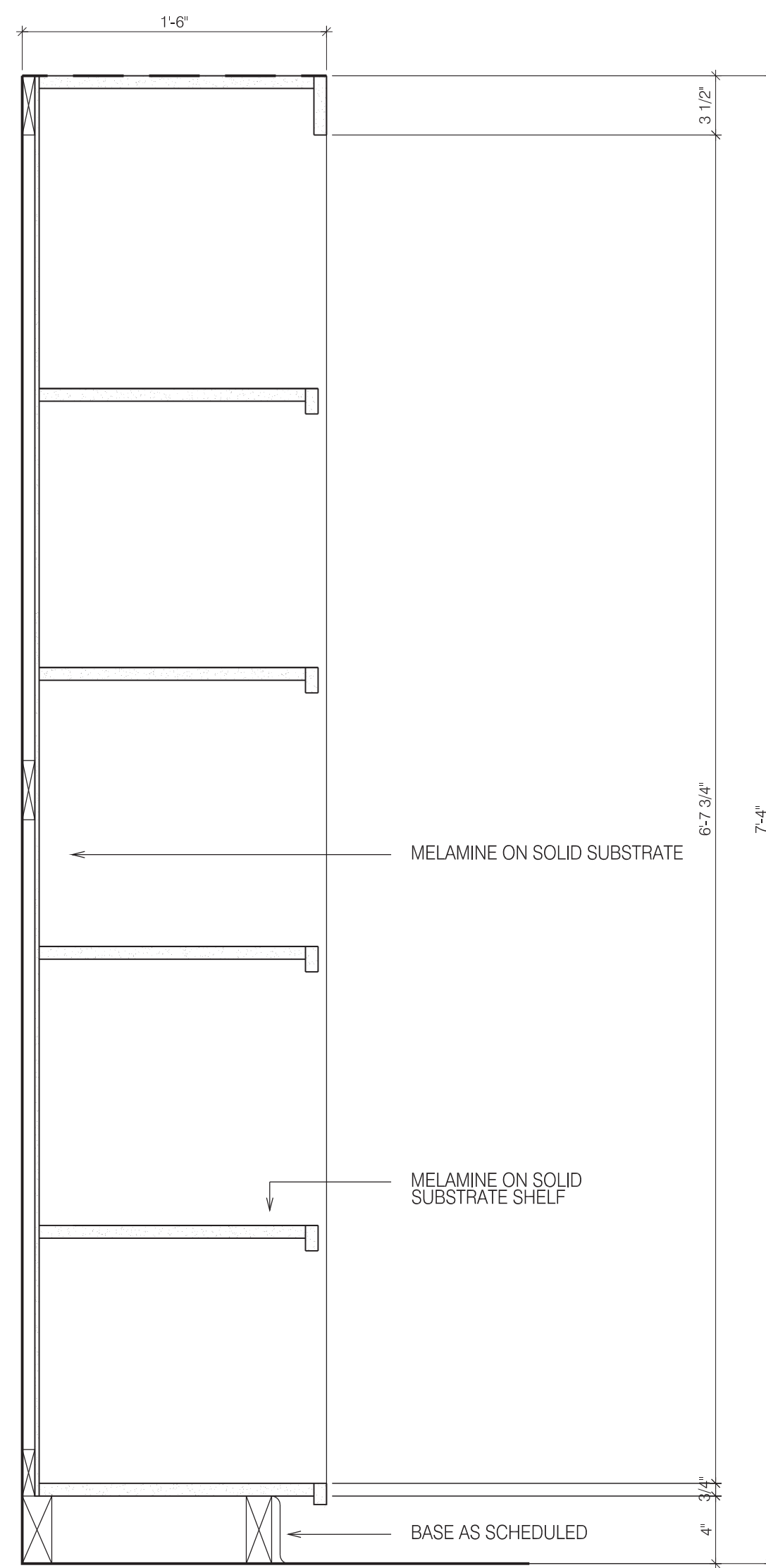
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Revisions: JAG  
APRIL 17, 2023 - ADDENDUM #1

CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

Sheet Number:

**A506**

MILLWORK DETAILS



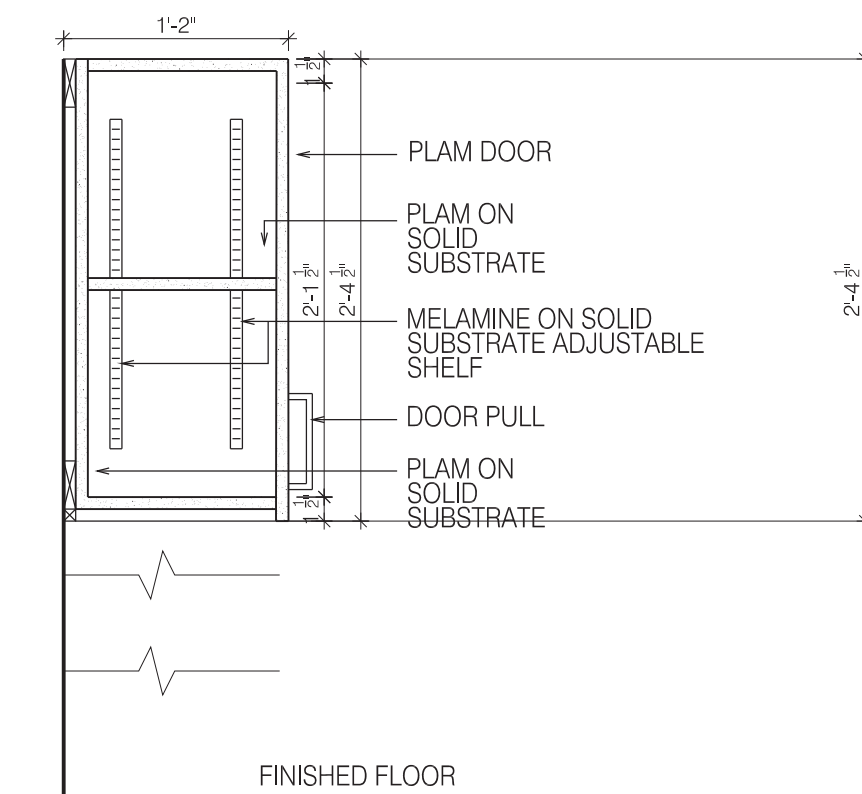
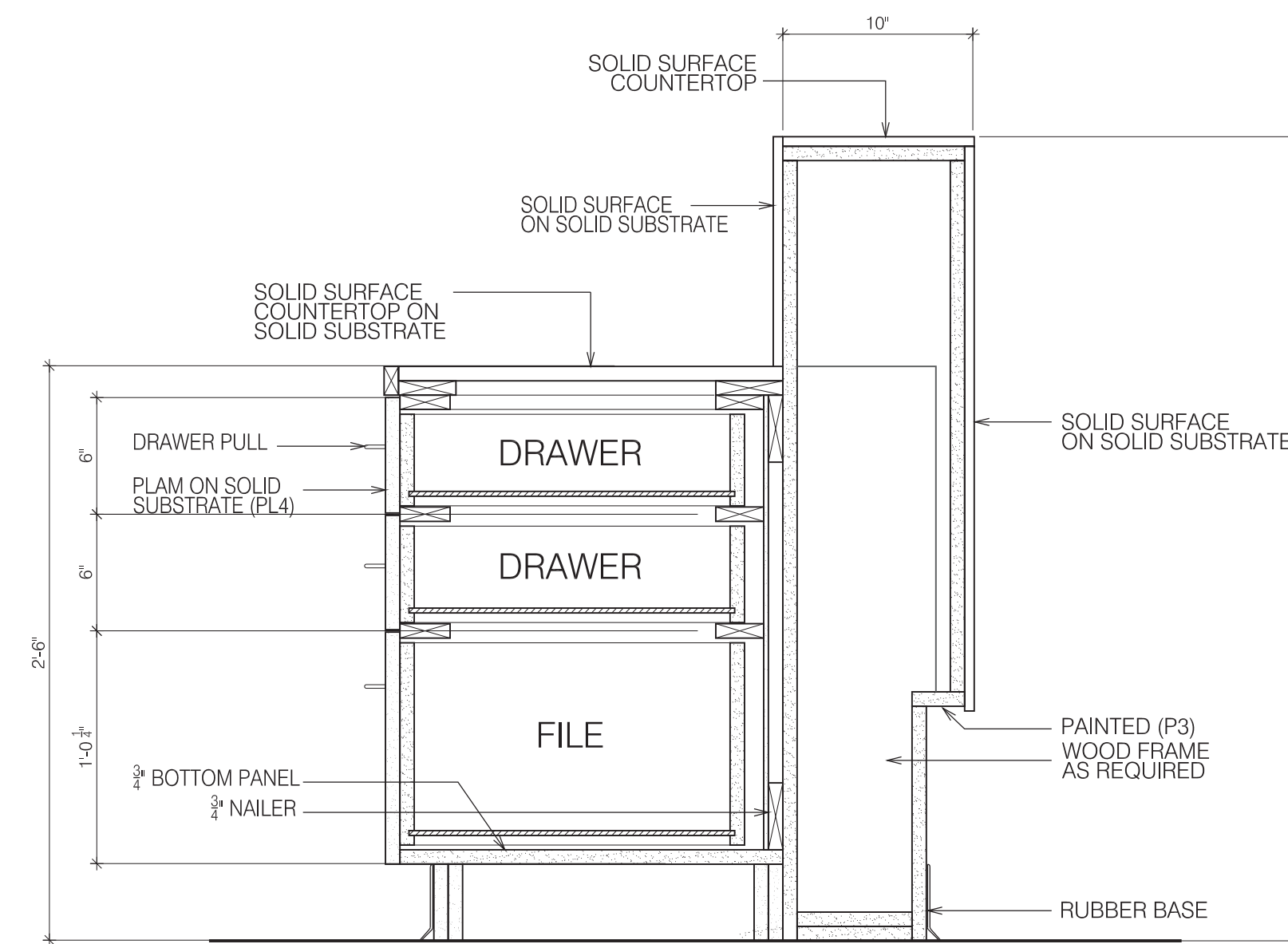
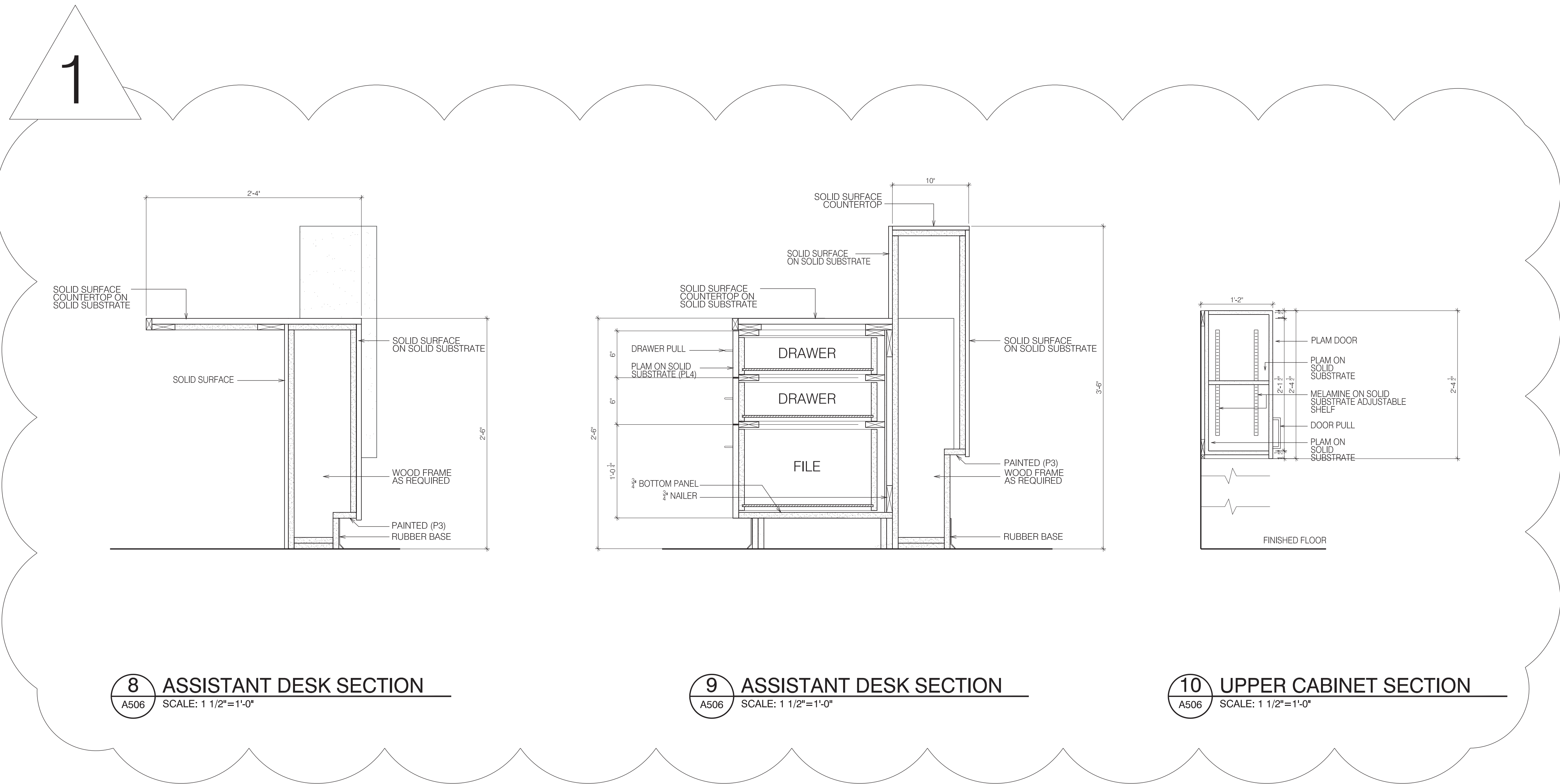
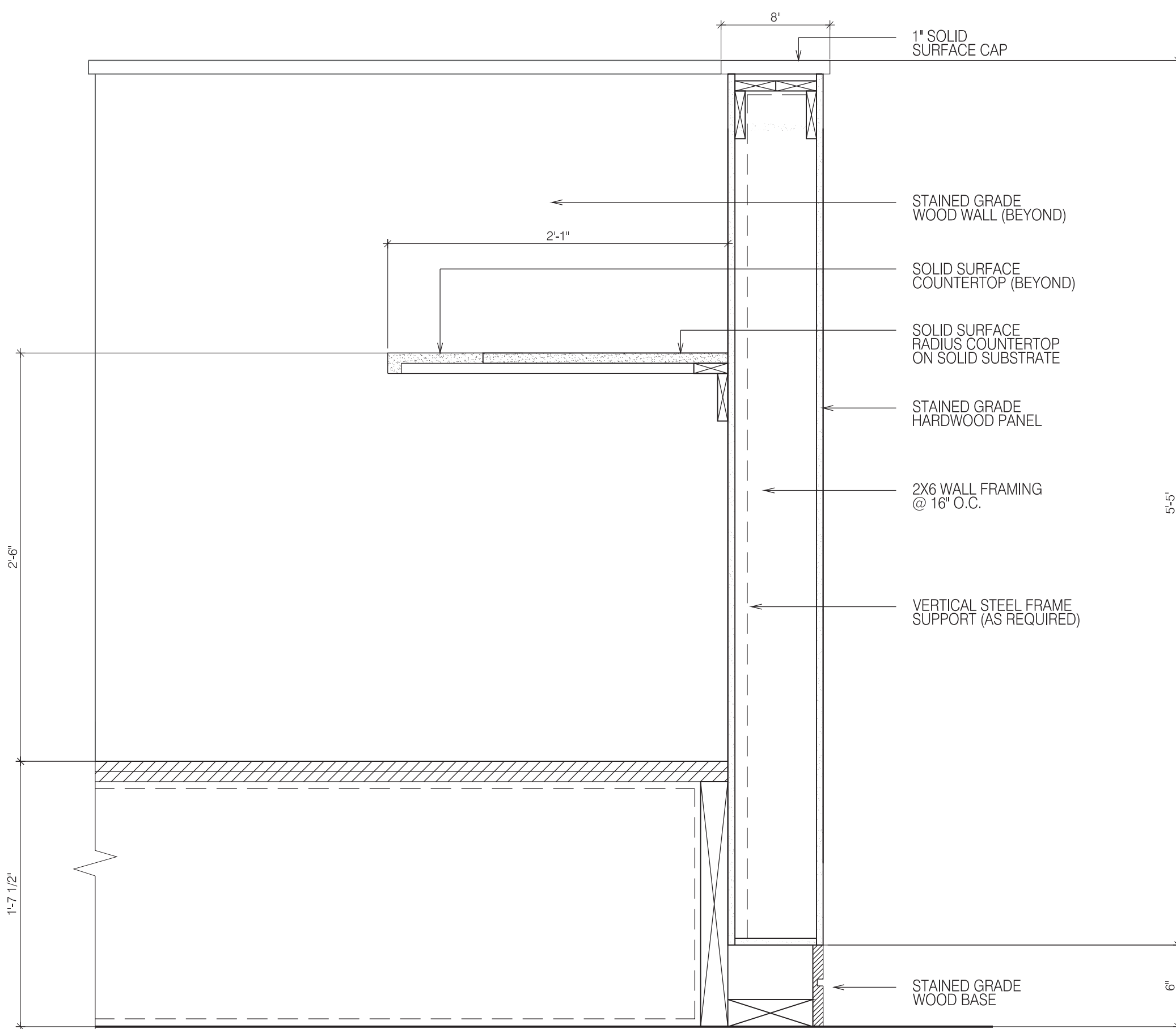
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**2** SHELVES SECTION  
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A506 SCALE: 1 1/2"=1'-0"

**4** COURT ROOM SECTION  
A506 SCALE: 1 1/2"=1'-0"

**5** JUDGE'S BENCH SECTION  
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**6** JUDGE'S BENCH SECTION  
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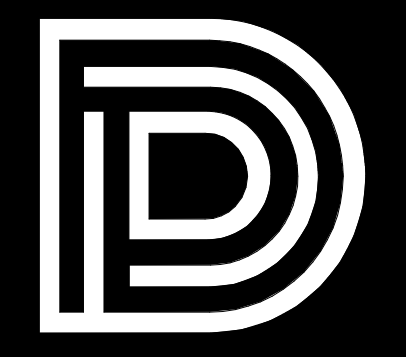
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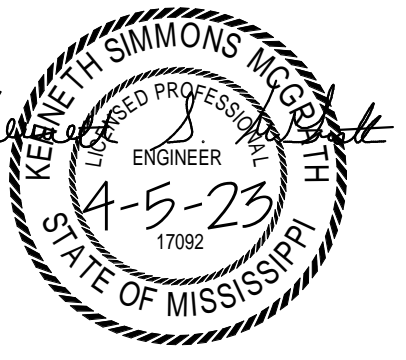
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1/8" = 1'-0" GRAPHIC SCALE





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REVISIONS: 1 04/17/2023

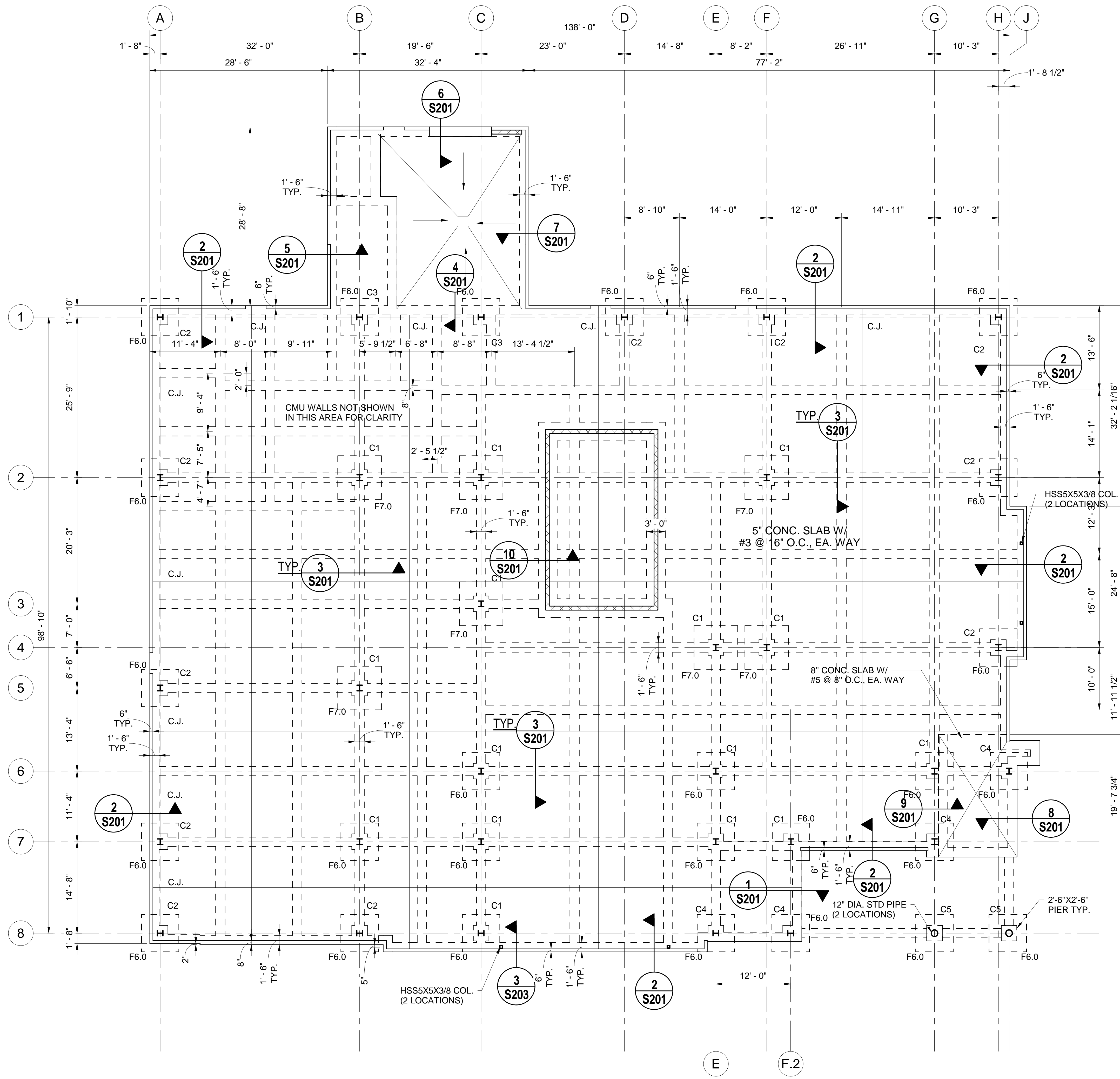
Project 22093  
Date APRIL 5, 2023  
Draw JSB  
Check KSM  
Revision

**CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL  
COURT GLUCKSTADT, MS**

Sheet

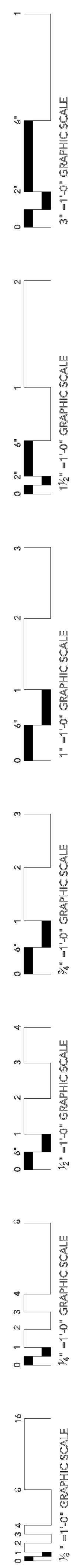
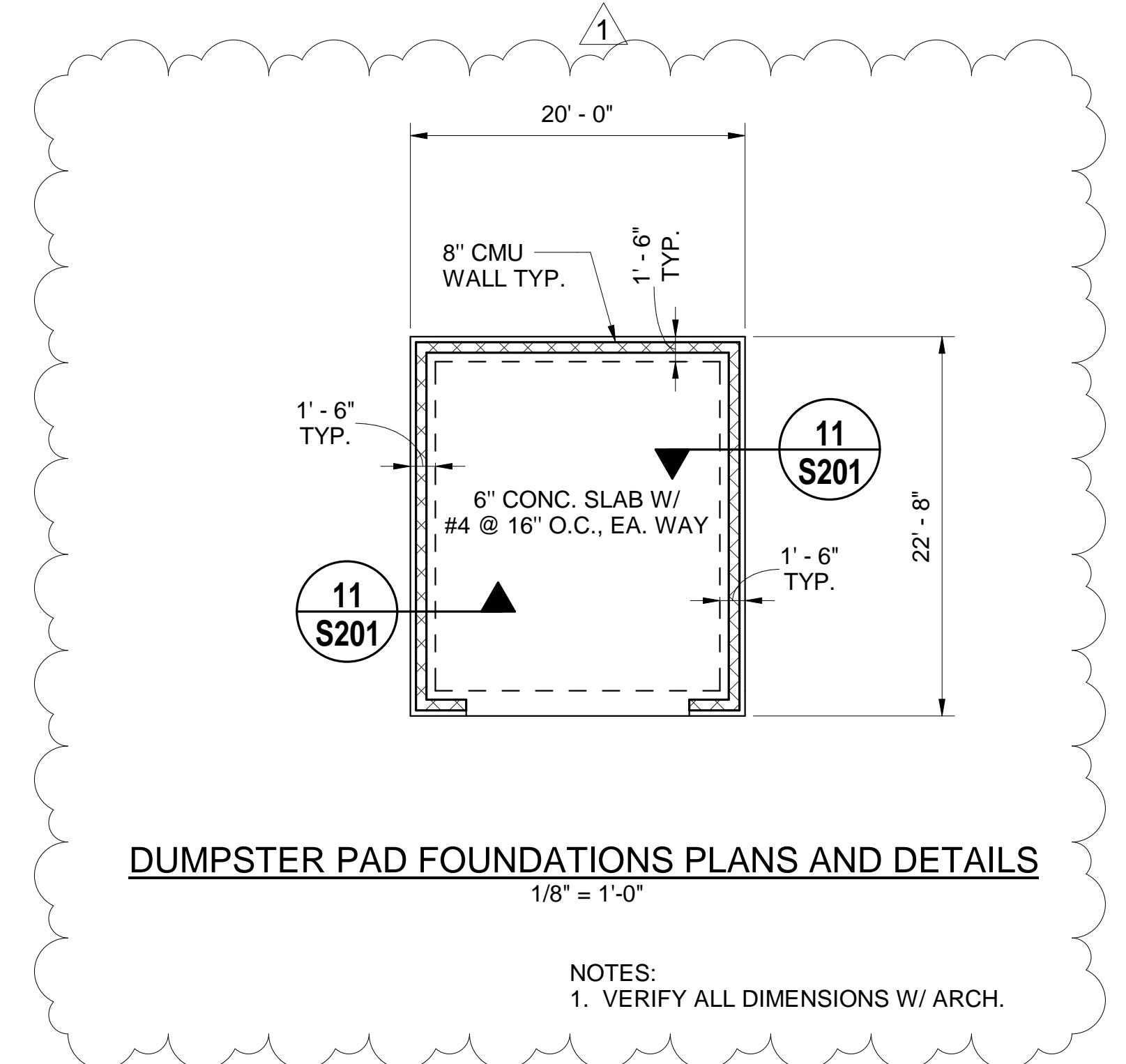
**S101**

FOUNDATION AND  
FLOOR FRAMING PLANS

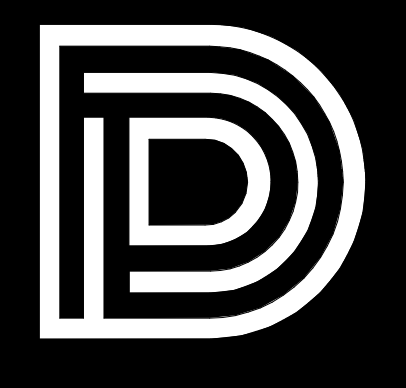


**FOUNDATION AND FLOOR FRAMING PLAN**  
1/8" = 1'-0"

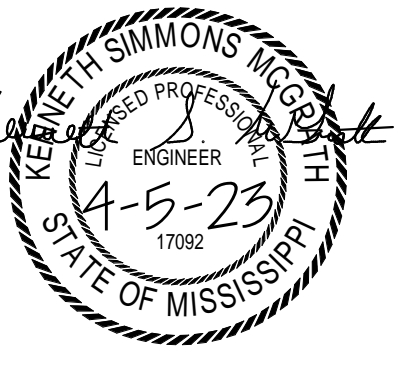
NOTES:  
1. VERIFY ALL DIMENSIONS W/ ARCH.



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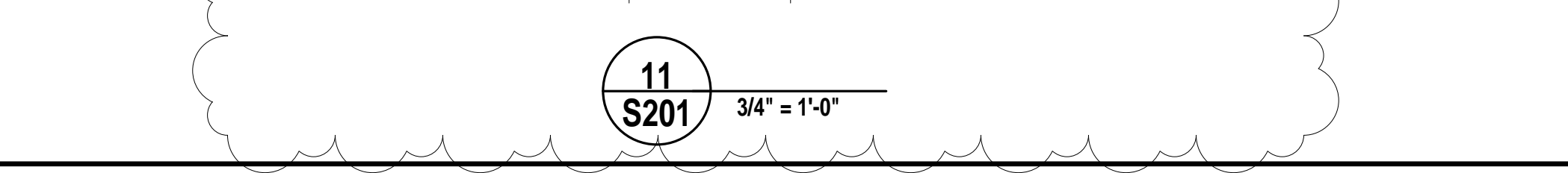
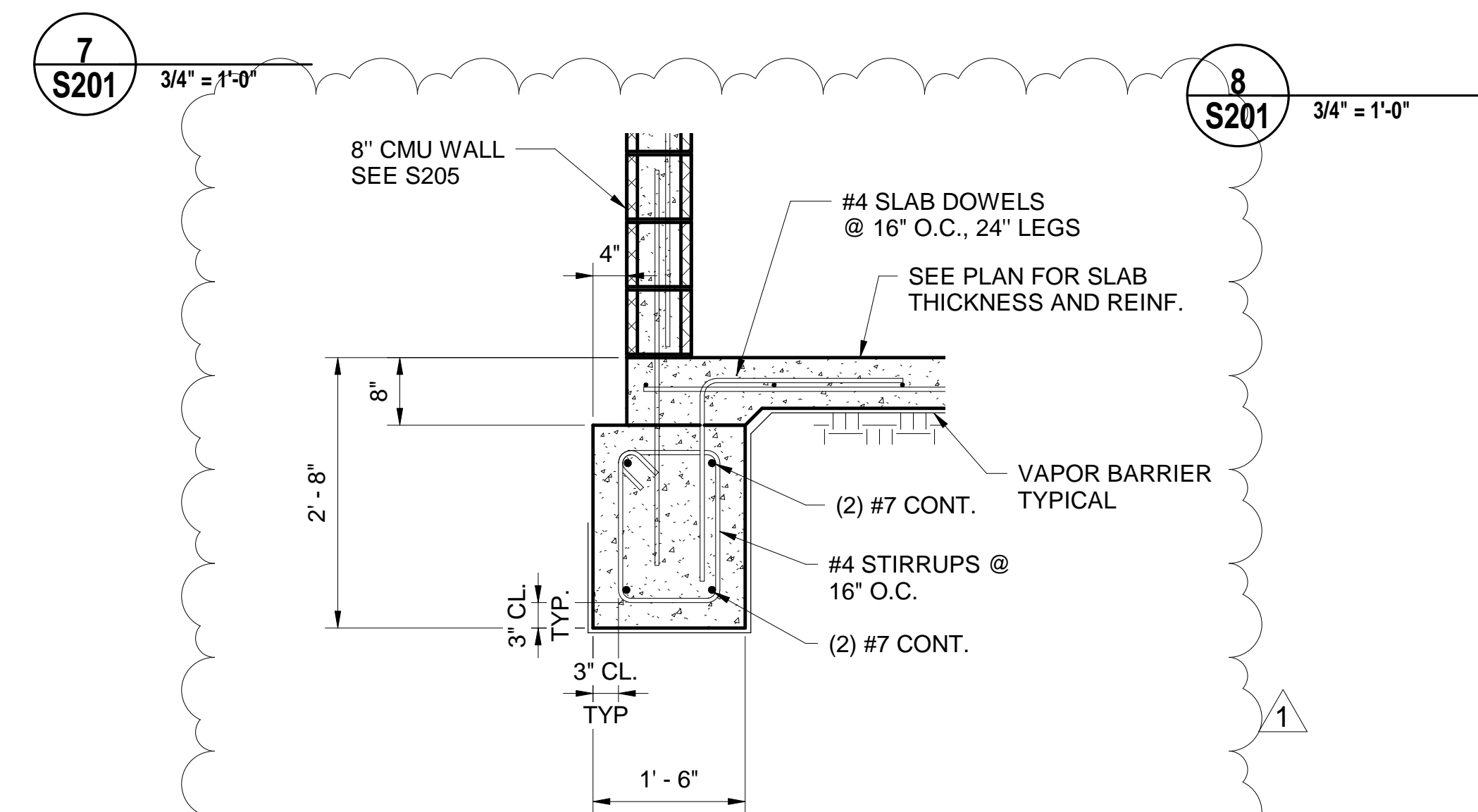
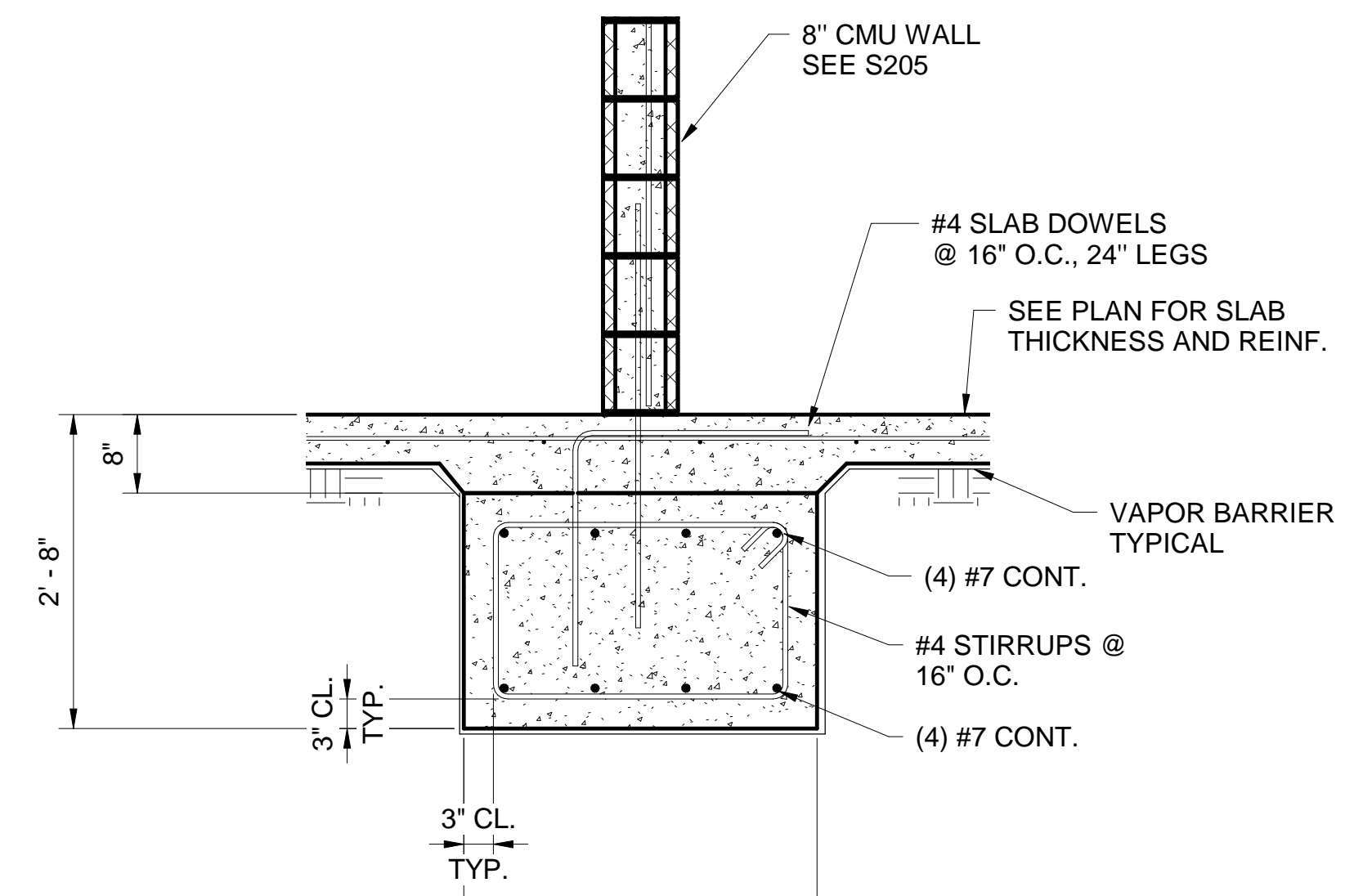
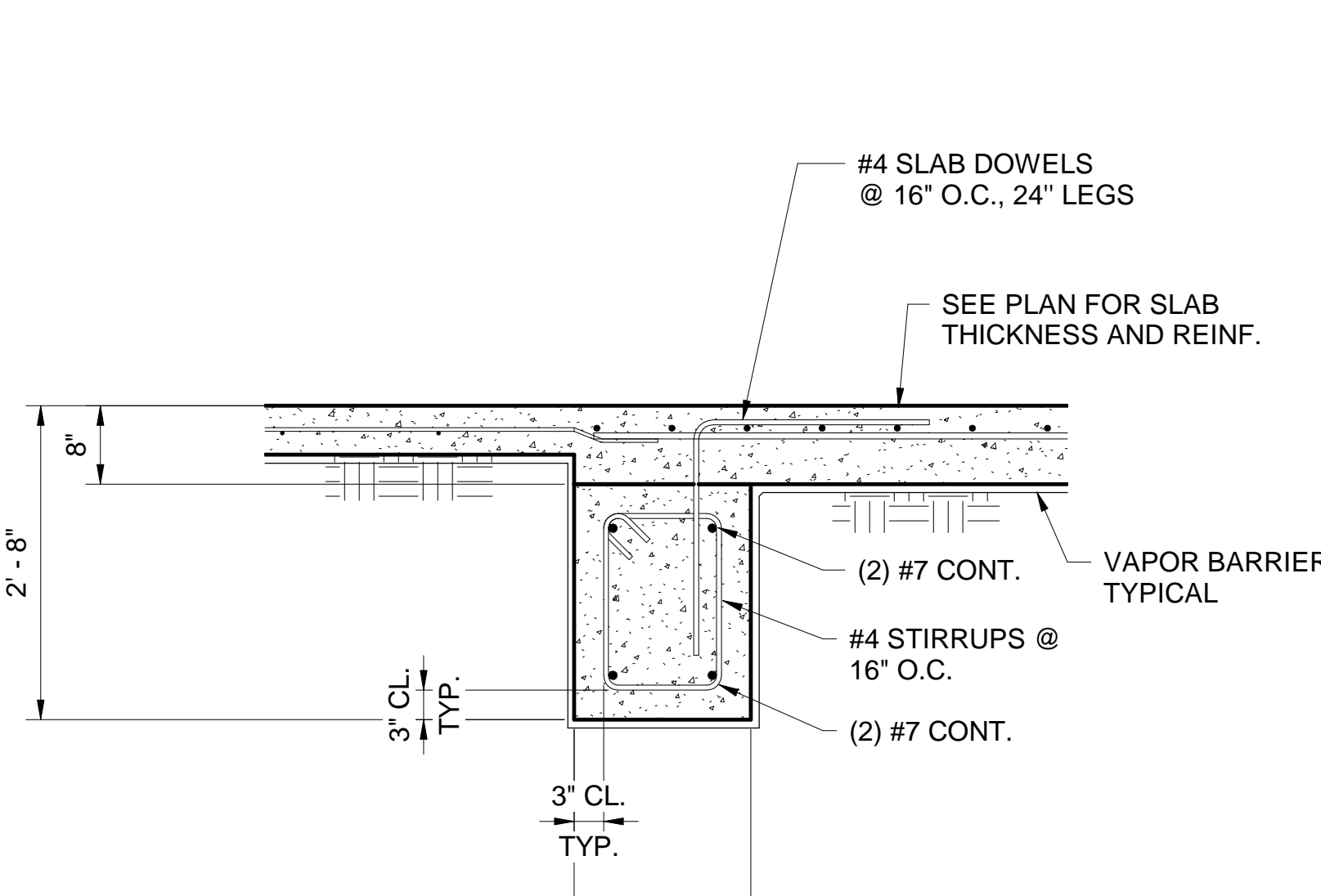
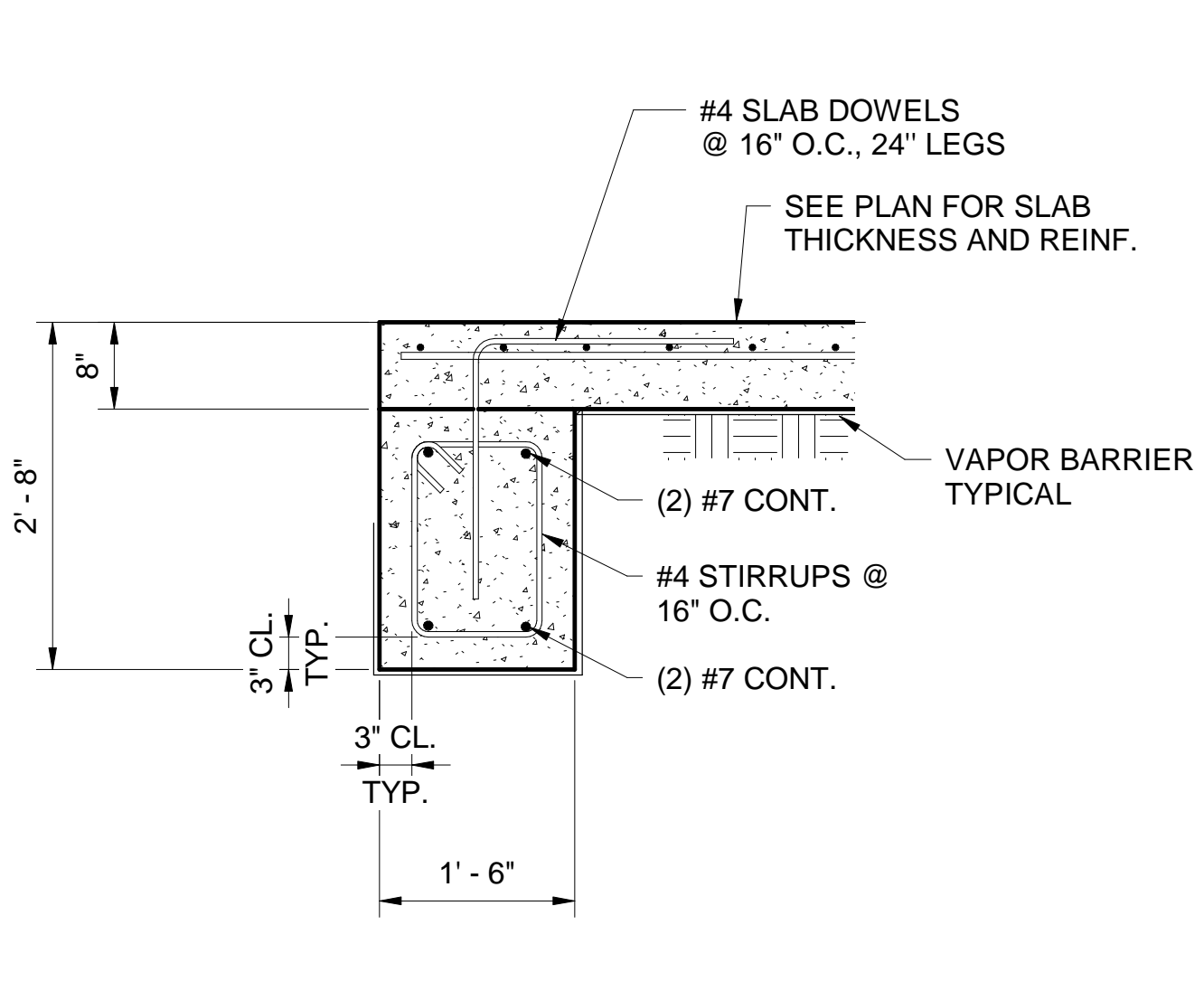
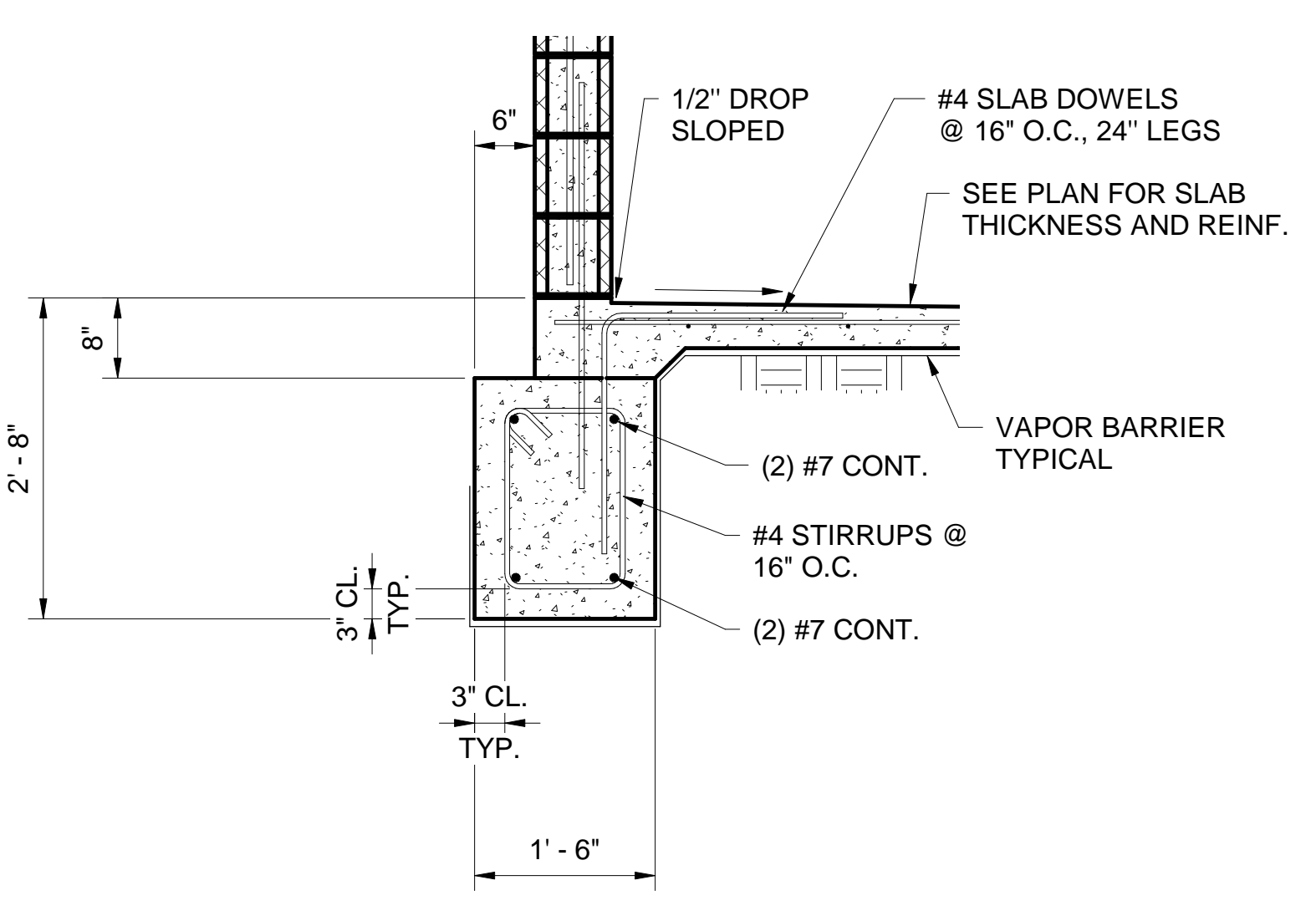
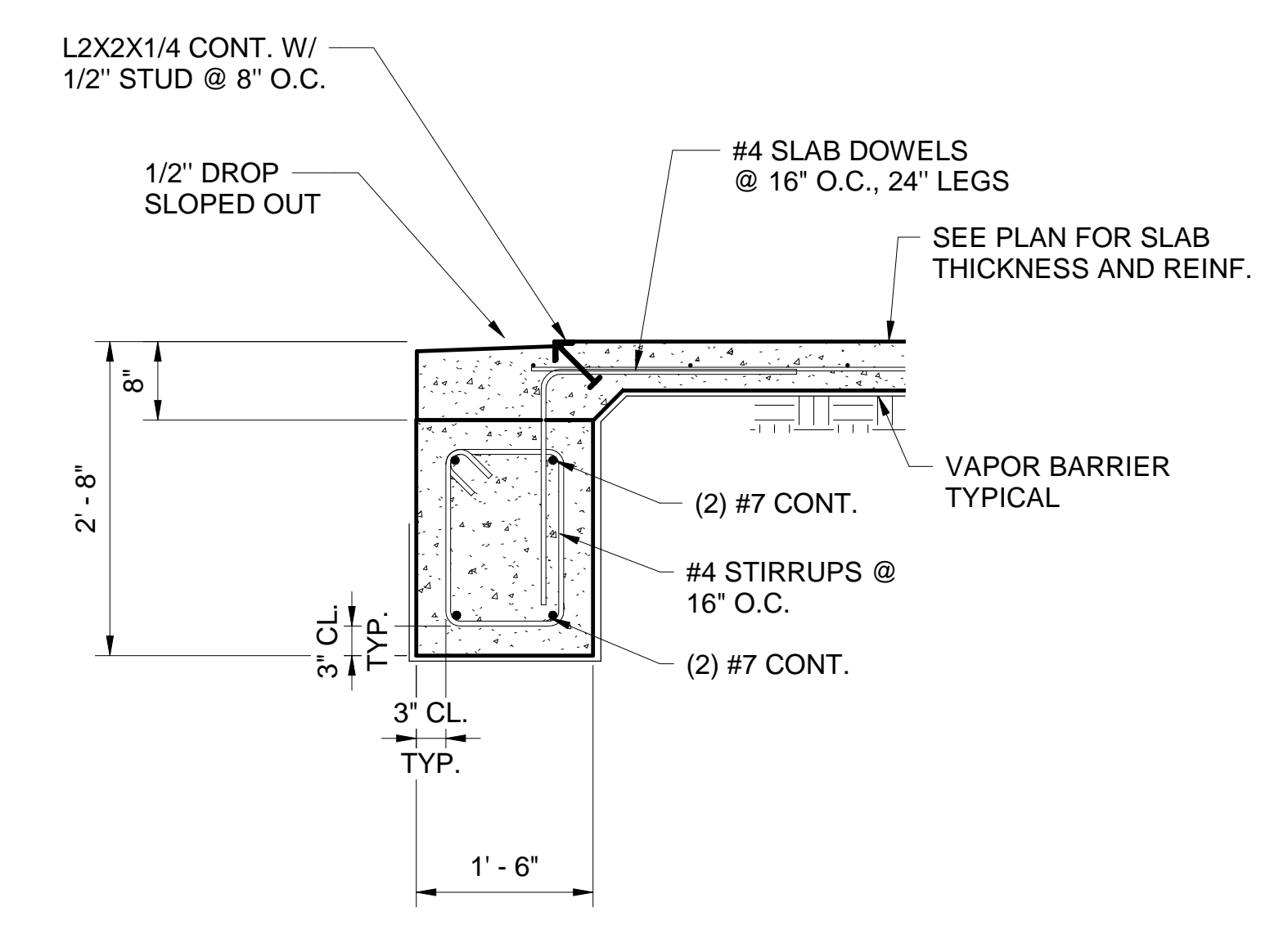
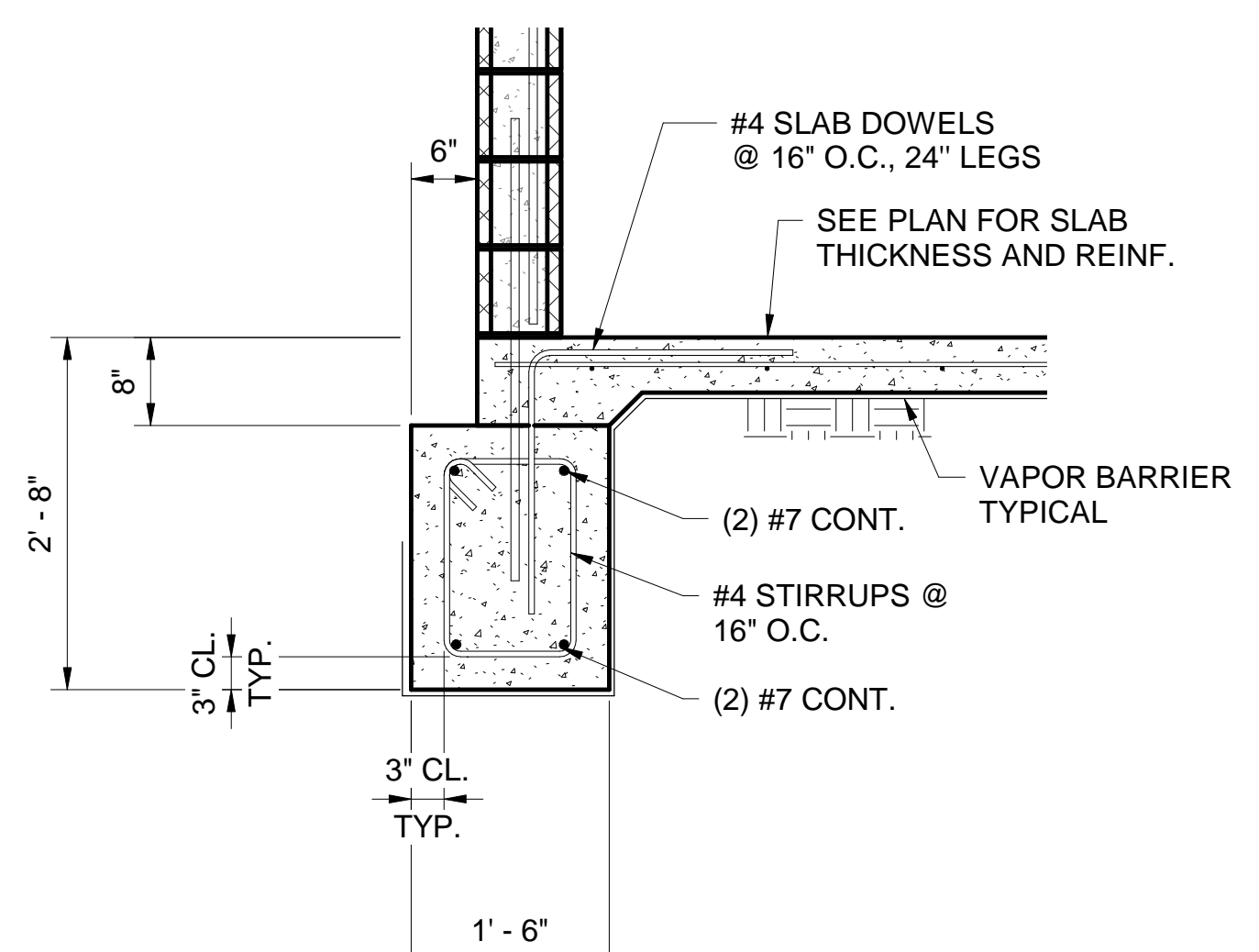
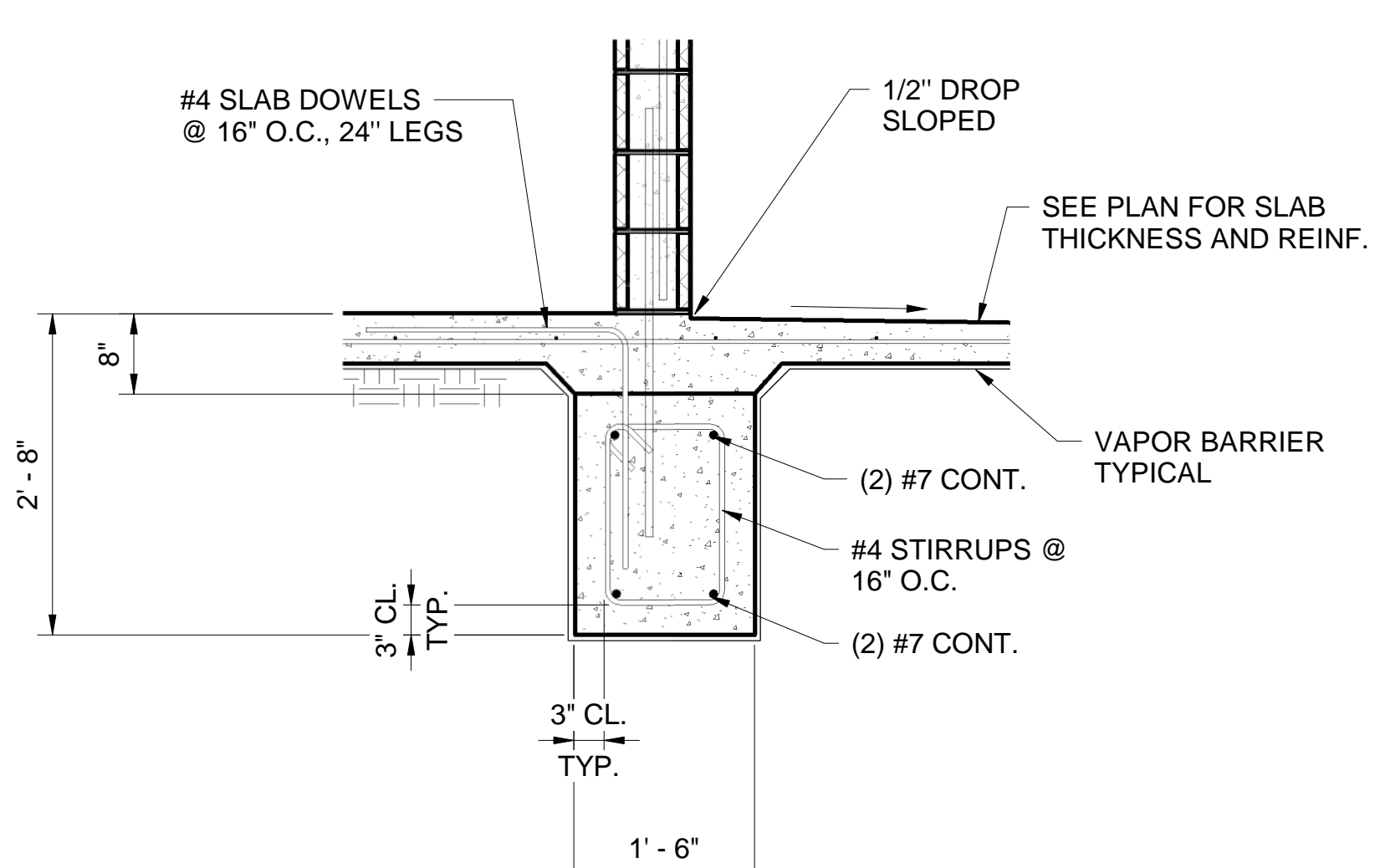
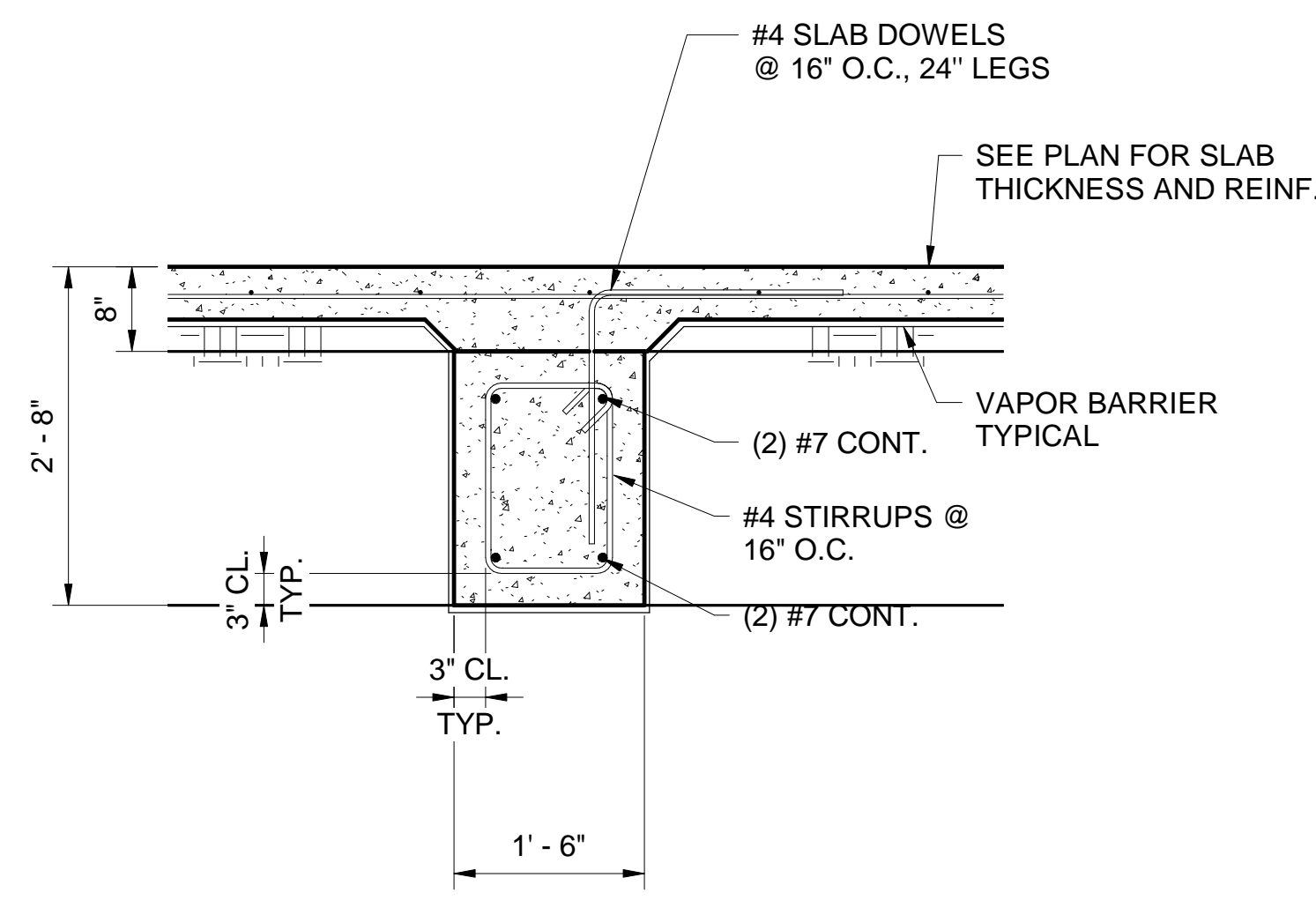
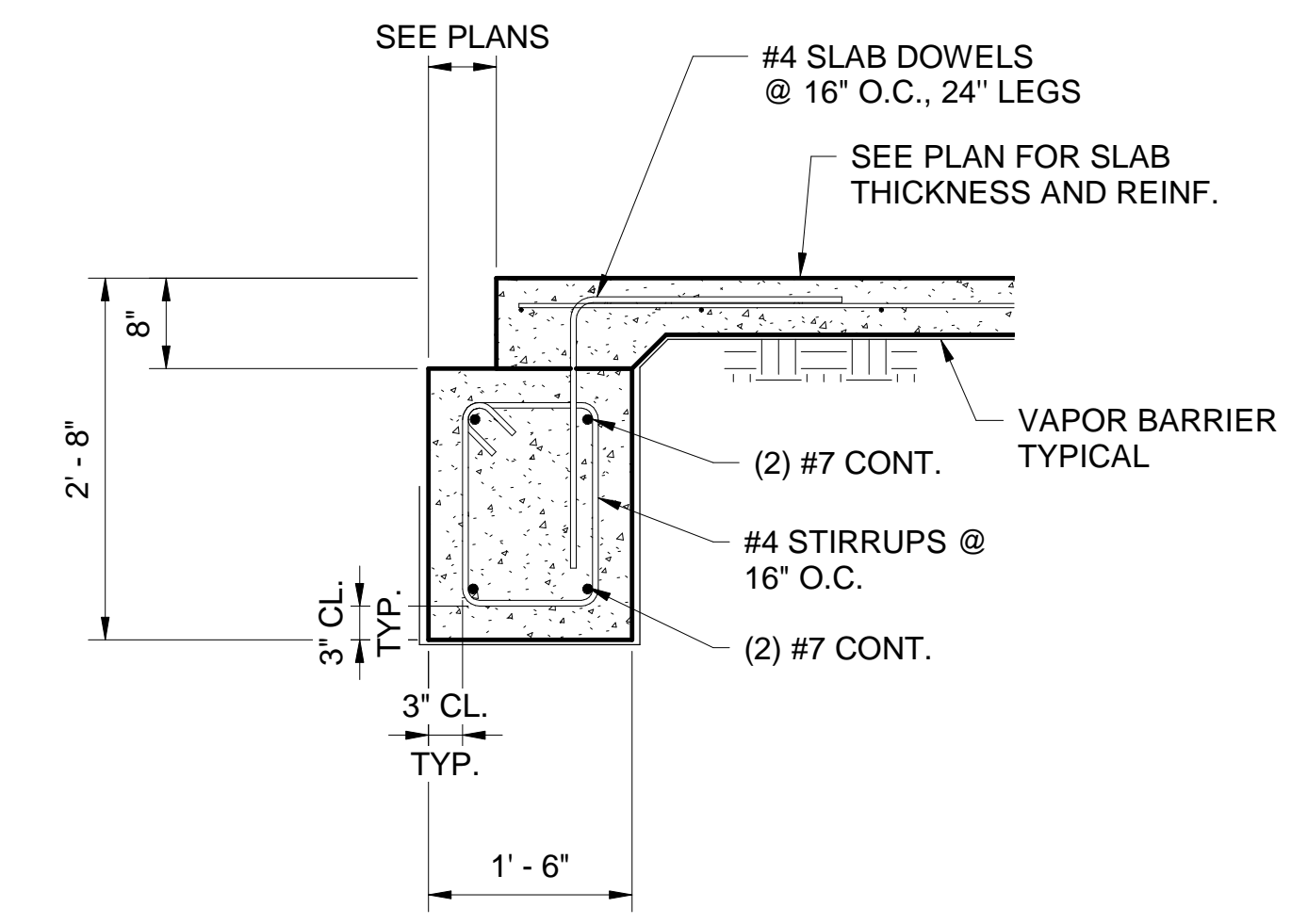
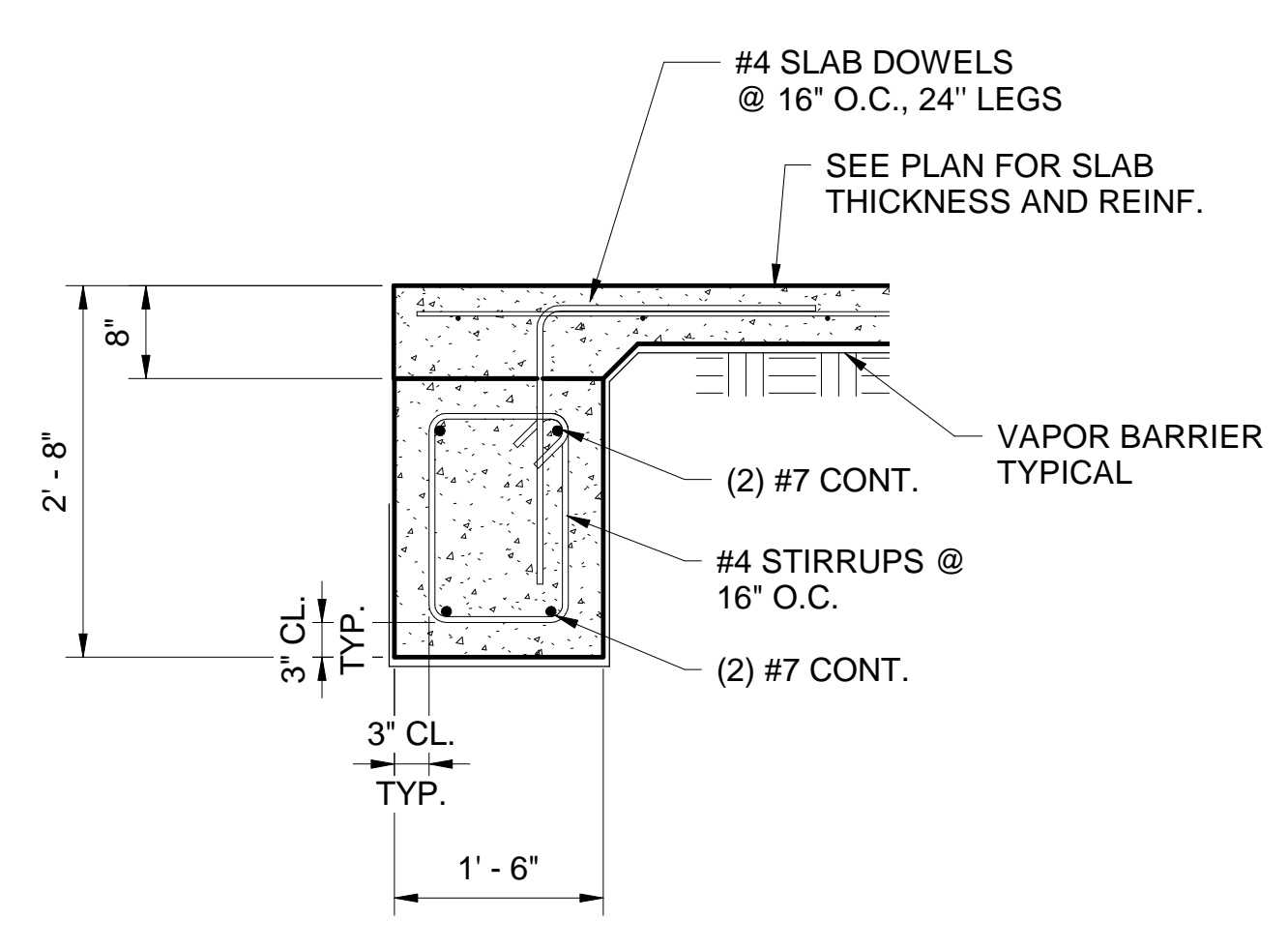
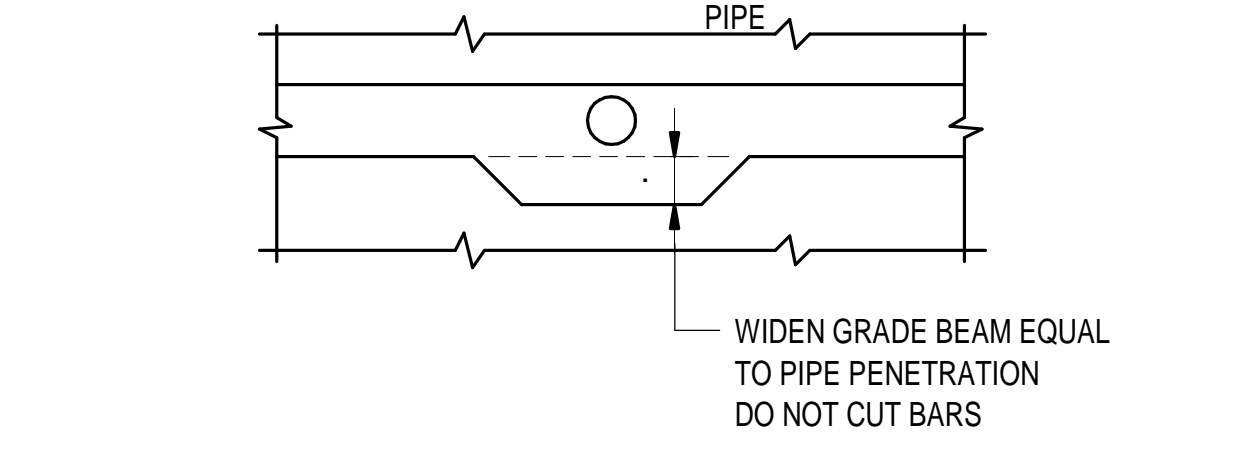
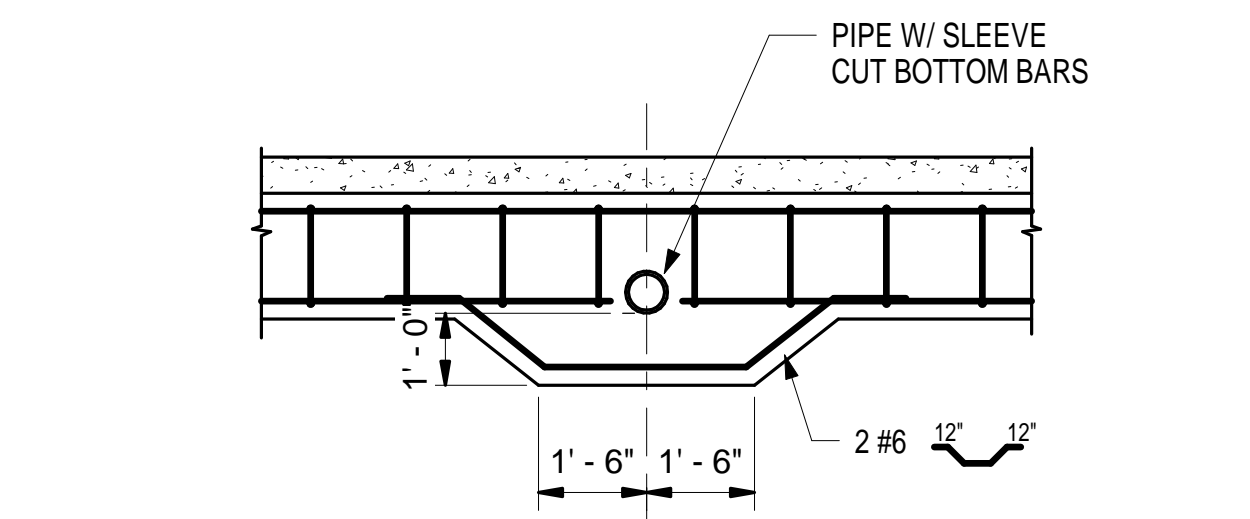
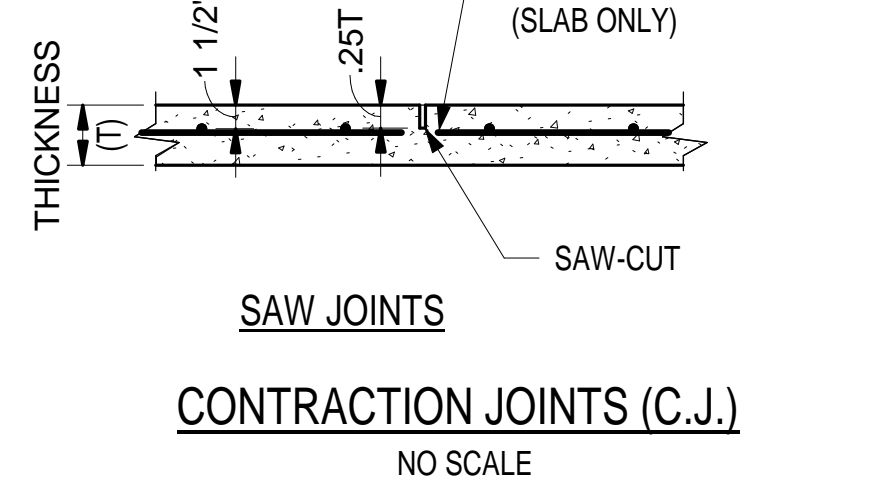
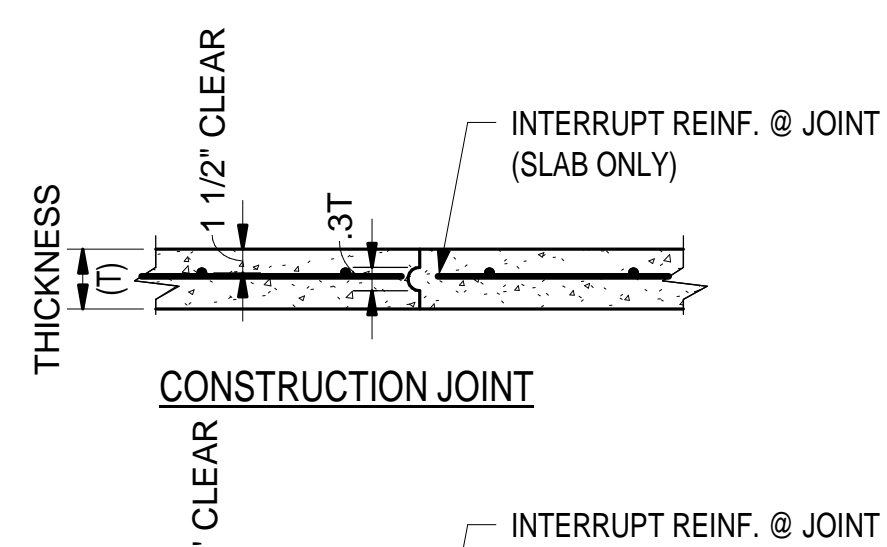
CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL  
COURT GLUCKSTADT, MS

Sheet

S201

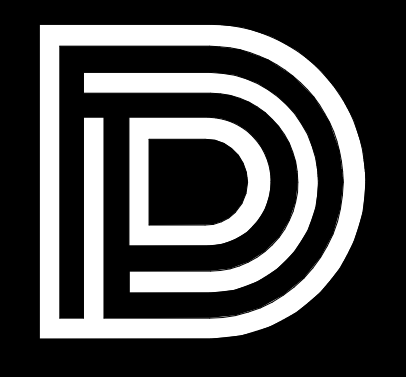
FOUNDATION PLANS

MARK	THICKNESS	SIZE		REINFORCING EACH WAY	REMARK
		LENGTH	WIDTH		
F6.0	20"	6'-0"	6'-0"	7 #6	
F7.0	24"	7'-0"	7'-0"	8 #6	

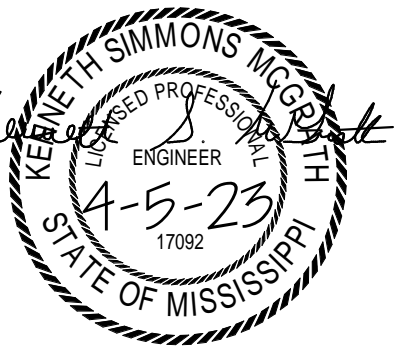


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3" = 1'-0" GRAPHIC SCALE  
1 1/2" = 1'-0" GRAPHIC SCALE  
1" = 1'-0" GRAPHIC SCALE  
3/4" = 1'-0" GRAPHIC SCALE  
3/8" = 1'-0" GRAPHIC SCALE  
1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE  
3/16" = 1'-0" GRAPHIC SCALE  
1/8" = 1'-0" GRAPHIC SCALE  
1/16" = 1'-0" GRAPHIC SCALE



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Project 22093  
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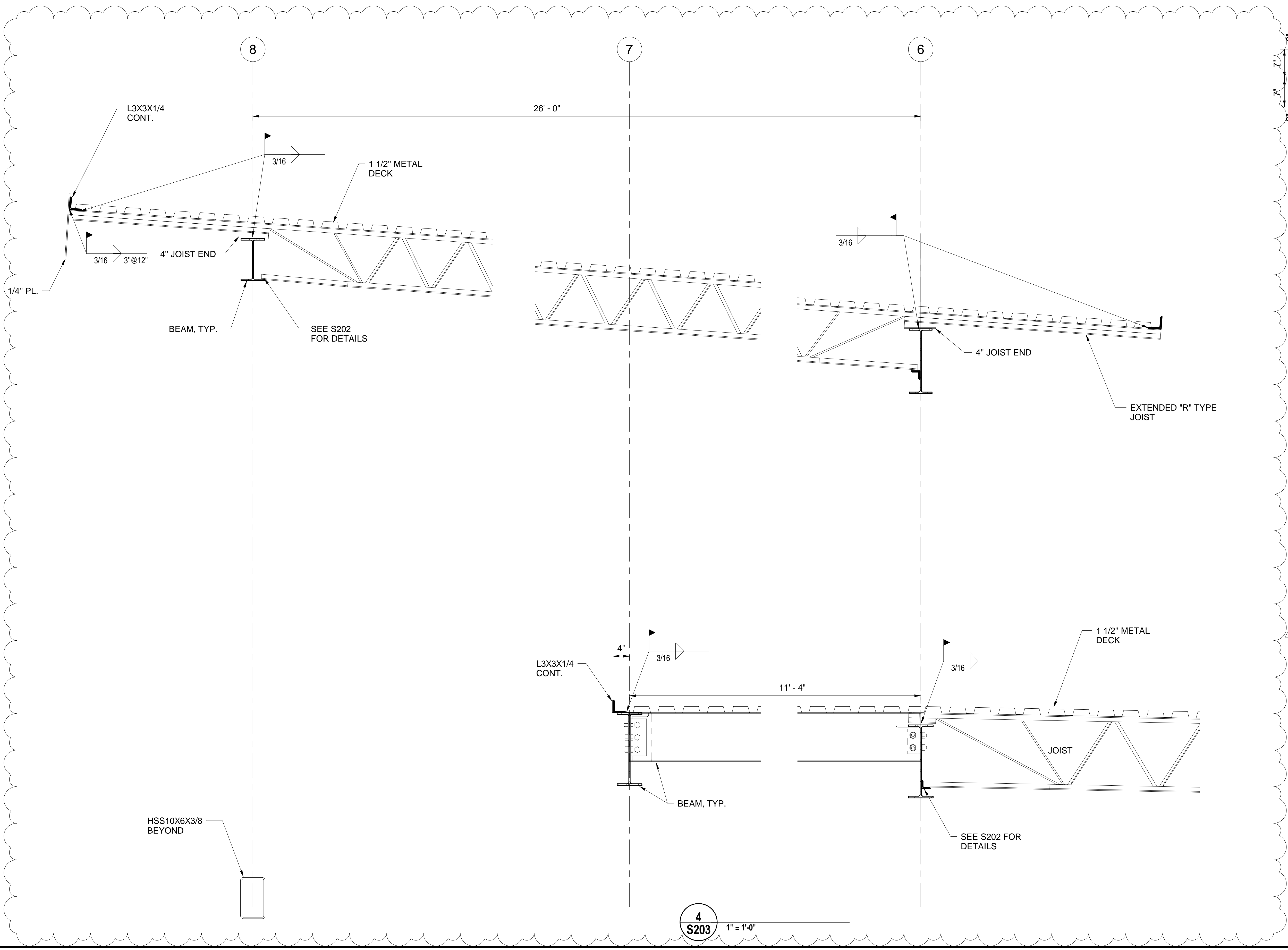
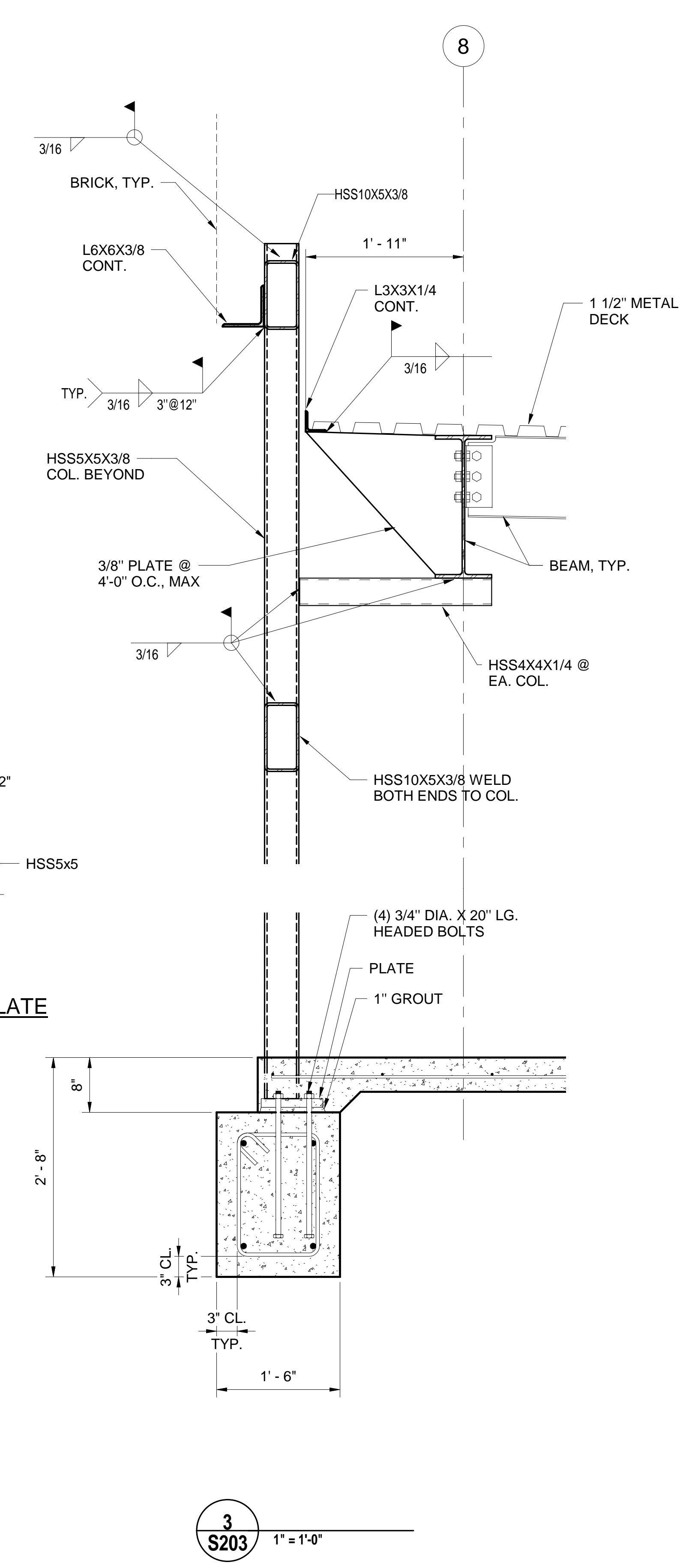
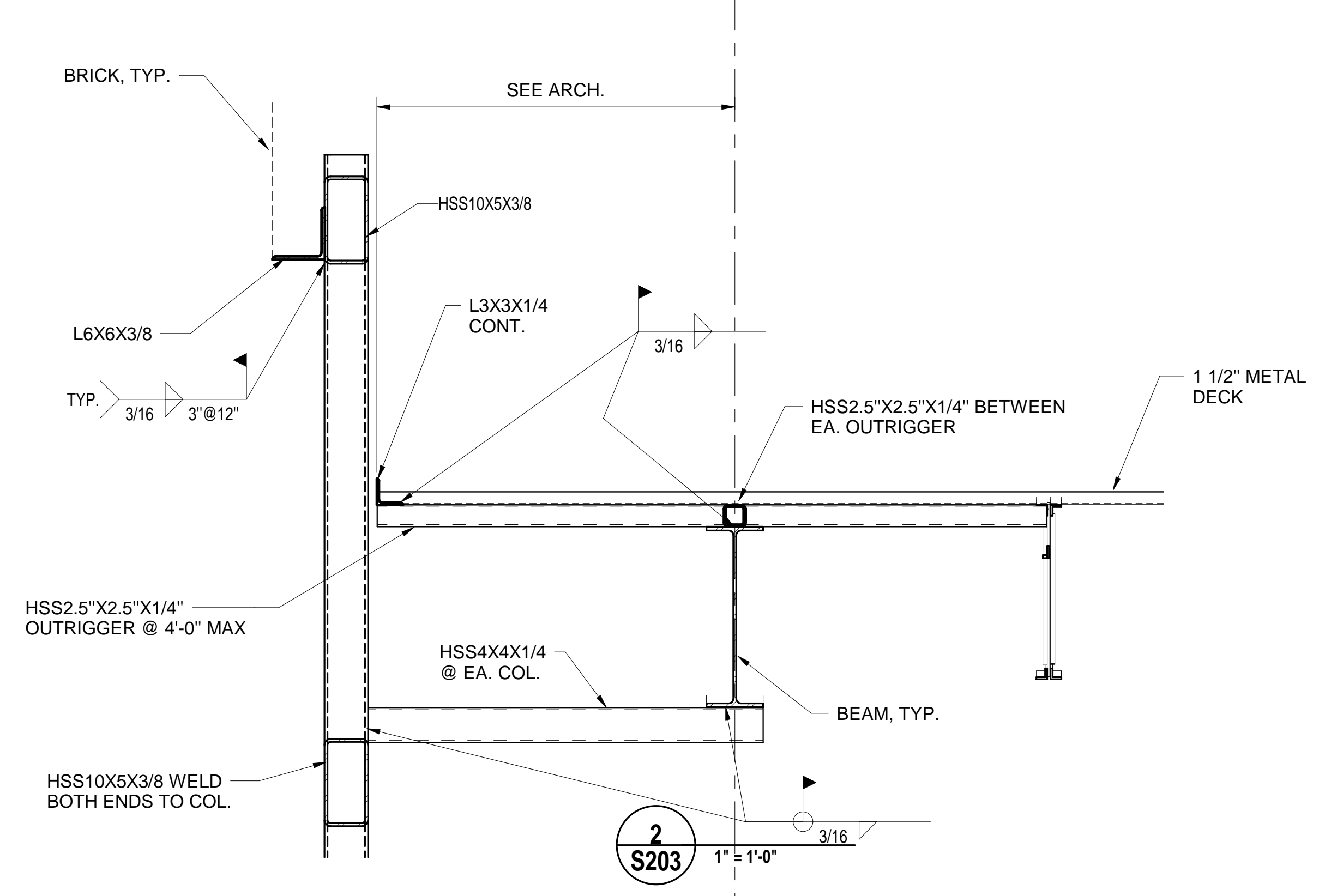
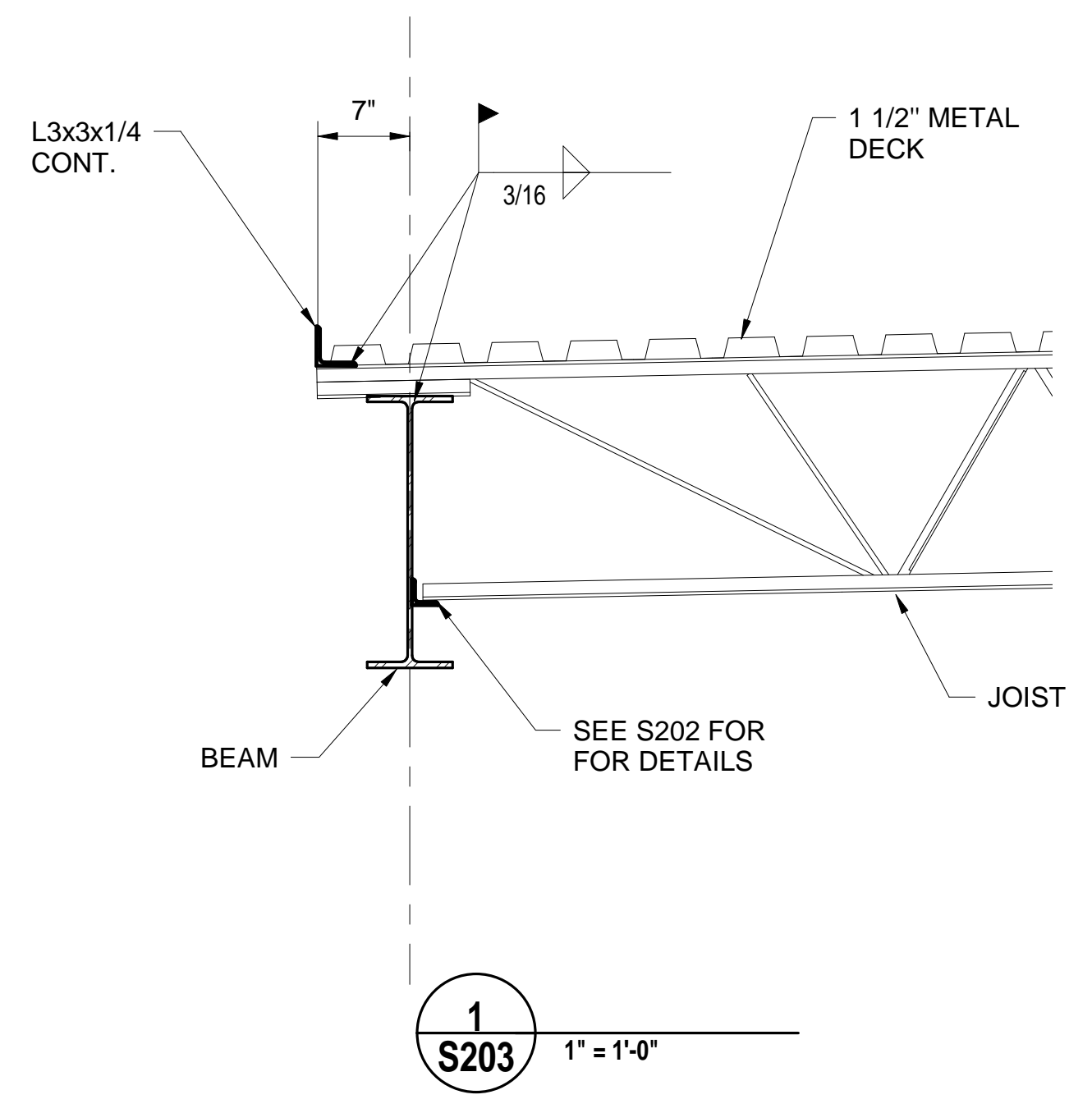
**CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL  
COURT GLUCKSTADT, MS**

Sheet

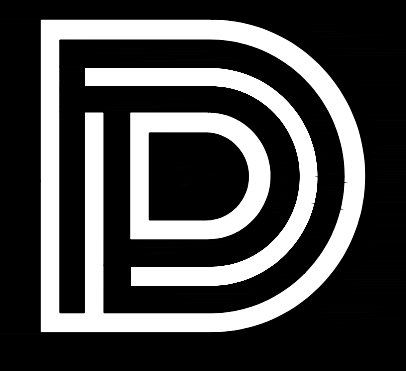
**S203**

STEEL DETAILS

3" = 1'-0" GRAPHIC SCALE  
1 1/2" = 1'-0" GRAPHIC SCALE  
1" = 1'-0" GRAPHIC SCALE  
3/4" = 1'-0" GRAPHIC SCALE  
1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE  
3/8" = 1'-0" GRAPHIC SCALE  
1/8" = 1'-0" GRAPHIC SCALE



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Revisions: APRIL 17, 2023

CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

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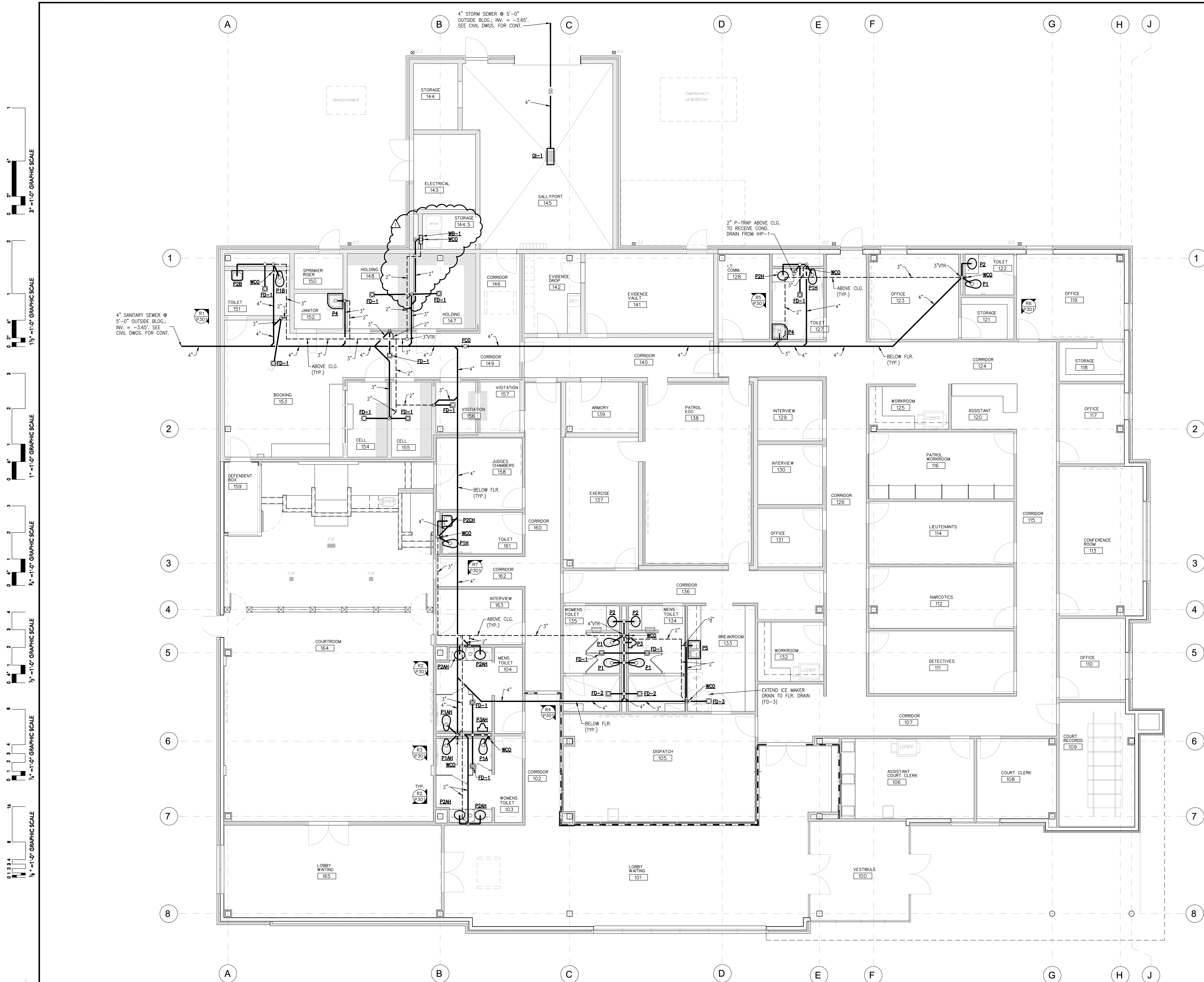
**P201**

FLOOR PLAN -  
WASTE & VENT

**HESMA**  
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1 WOODGREEN PLACE  
SUITE 210  
MADISON, MISSISSIPPI 39110  
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MISSISSIPPI JTB# 42798  
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1 1/2" = 1'-0" GRAPHIC SCALE

1" = 1'-0" GRAPHIC SCALE

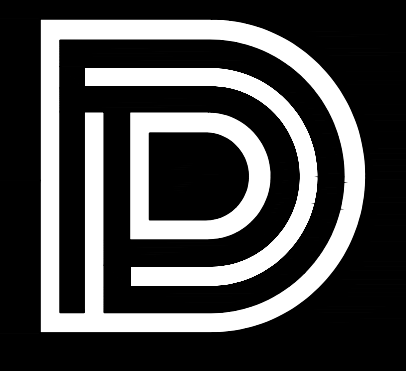
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1/2" = 1'-0" GRAPHIC SCALE

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

1/8" = 1'-0" GRAPHIC SCALE

1 FLOOR PLAN - WASTE & VENT  
SCALE: 3/16" = 1'-0" F.F.E. = 000.00'



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CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

Sheet Number:

**P202**

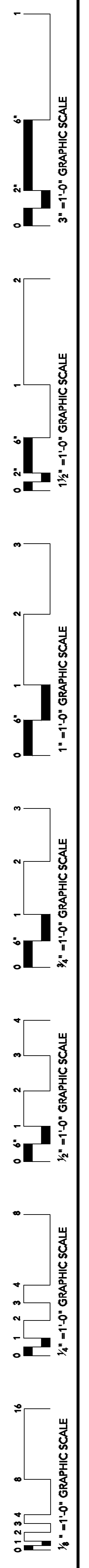
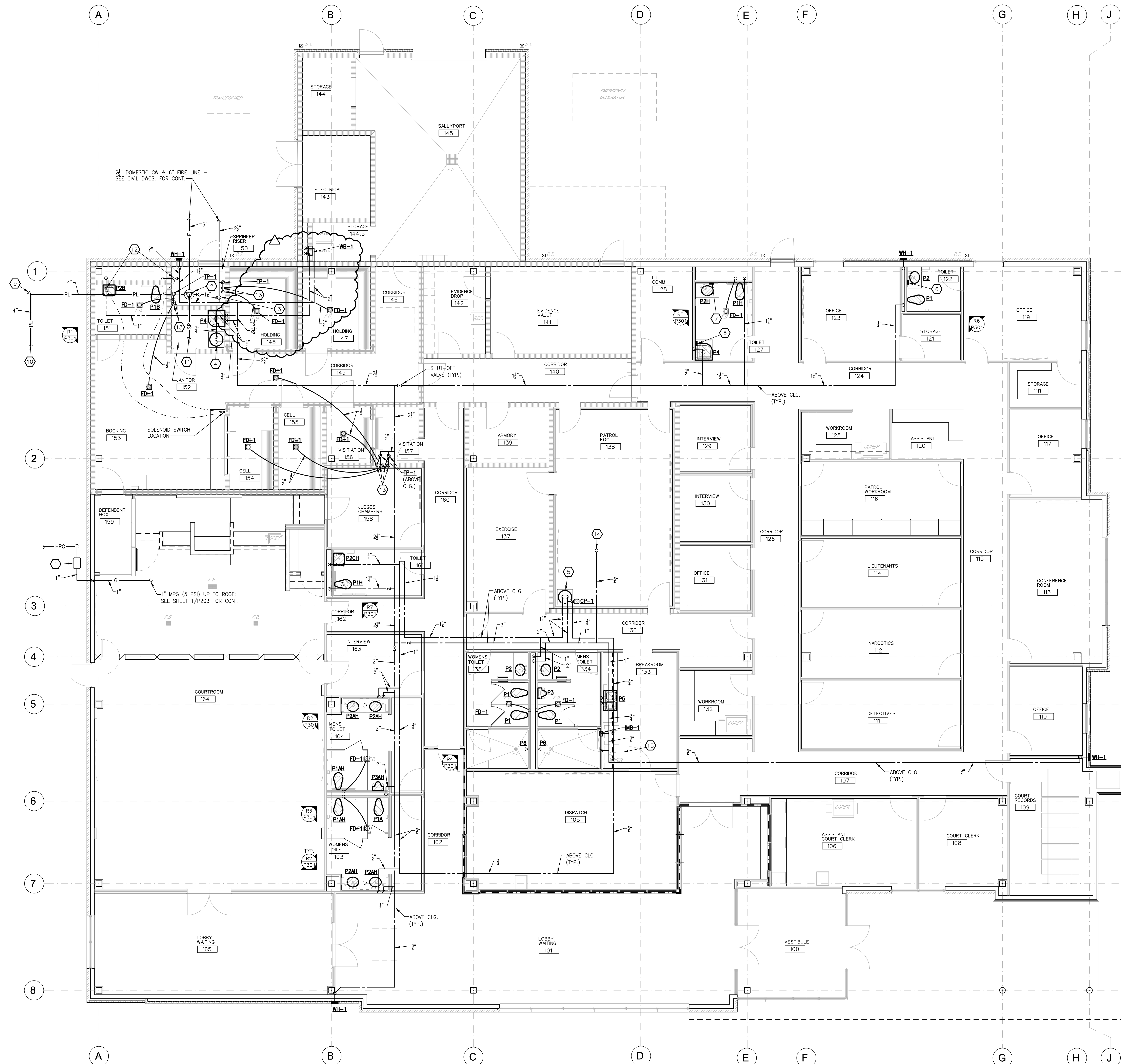
FLOOR PLAN -  
WATER & GAS

**FIRE PROTECTION NOTE:**

ENTIRE BUILDING SHALL BE PROTECTED WITH AN AUTOMATIC WET  
SPRINKLER SYSTEM INSTALLED IN ACCORDANCE WITH NFPA 13,  
SPECIFICATIONS SECTION 15501, AND CITY OF GLUCKSTADT FIRE  
DEPARTMENT REQUIREMENTS. ALL FLOW SWITCHES AND SUPERVISED  
VALVES SHALL BE INTERLOCKED WITH LOCAL ELECTRIC BELL.

**NOTES**

- 1 GAS METER, REGULATOR, & HIGH PRESS. GAS LINE TO BE SIZE, FURNISHED, & INSTALLED BY CENTERPOINT ENERGY AT CONTRACTOR'S EXPENSE - TOTAL DEMAND = 780 CFH @ 5 PSI.
- 2 SPRINKLER RISER; SEE DETAIL 1/P301.
- 3 2" DOUBLE CHECK BACKFLOW PREVENTER IN RISER.
- 4 WATER HEATER (WH-1) MOUNTED AS HIGH AS POSSIBLE ON WALL.
- 5 WATER HEATER (WH-2) ON CONCRETE CAP ABOVE PATROL EOC.
- 6 WATER HEATER (WH-3) MOUNTED BENEATH SINK.
- 7 WATER HEATER (WH-4) MOUNTED BENEATH SINK.
- 8 WATER HEATER (WH-5) MOUNTED ABOVE CEILING.
- 9 CONCRETE THRUST BLOCK.
- 10 4" PUMPER LINE TO FREE STANDING SIAMSE FIRE CONNECTION - SEE CIVIL DWGS. FOR CONT.
- 11 SPRINKLER MAIN TO SERVE SPRINKLER SYSTEM. SEE FIRE PROTECTION NOTE ON THIS SHEET.
- 12 INSTALL SOLENOID VALVE IN CW & HW SUPPLY TO WATER CLOSET & LAVATORY. VALVE TO BE INSTALLED ABOVE CLG. AS NEAR AS POSSIBLE TO PLUMB. CHASE. SOLENOID VALVE SHALL BE EQUAL TO ASCO MODEL 8210633 & SHALL BE NORMALLY CLOSE. VALVE SHALL BE INTERLOCKED WITH WALL SWITCH LOCATED OUTSIDE TOILET. SEE ELECTRICAL DWGS. FOR SWITCH LOCATION.
- 13 2" TRAP PRIMER LINE DOWN TO BELOW FLOOR & EXTEND TO FLOOR DRAIN AS SHOWN.
- 14 2" CW UP TO ROOF HYDRANT ON ROOF.
- 15 VALVE & CONNECT 2" CW TO ICE MACHINE.

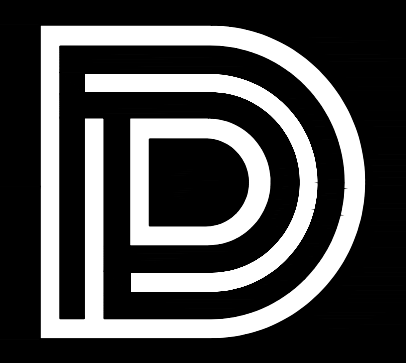


FLOOR PLAN - WATER & GAS  
SCALE: 3/16" = 1'-0"

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CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

Sheet Number:

P301

PLUMBING SCHEDULES, DETAILS, & RISERS

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PLUMBING FIXTURE SCHEDULE

Table with 13 columns: MARK, DESCRIPTION, MAKE, MODEL, FIXTURE SUPPORT, SUPPLY PIPE(S), SUPPLY FITTING, DRAIN, TRAP, MIN. CONNECTION SIZE (CW, HW, WASTE), MINIMUM VENT SIZE, MTG. HEIGHT FLR. TO RIM, FIXTURE COLOR, REMARKS. Lists various fixtures like water closets, lavatories, urinals, mop sinks, etc.

- 1 ADJUSTABLE FIXTURE SUPPORT EQUAL TO J.R.SMITH #700
2 ADJUSTABLE FIXTURE SUPPORT EQUAL TO J.R.SMITH #637
3 KOHLER MODEL K-7443-K FAUCET W/ STD. SPOUT & K-16012-5 WRISTBLADE HANDLE
4 SLOAN ETI-600-8 HARDWIRED-POWERED FAUCET WITH TRANSFORMER POWER SUPPLY

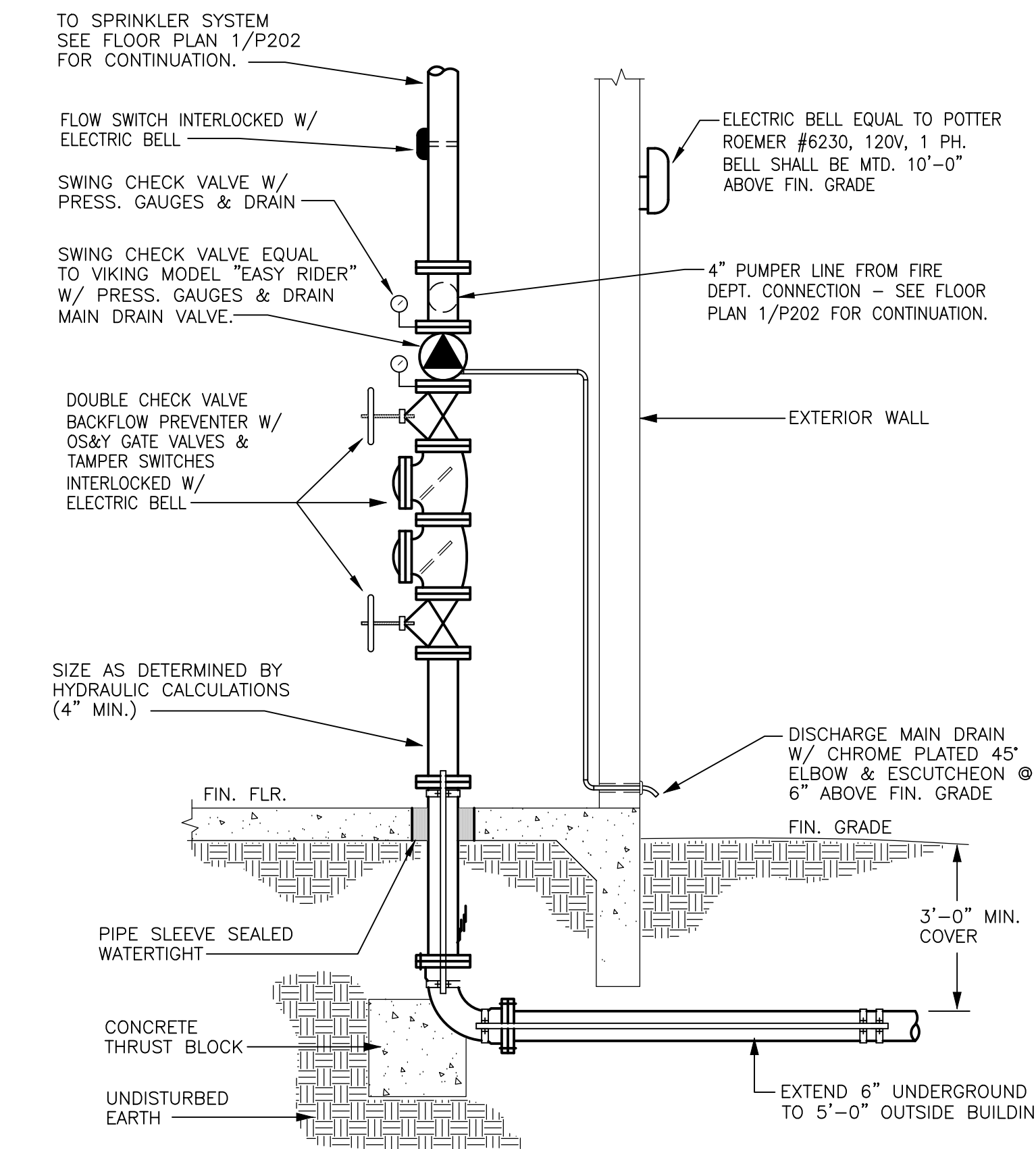
PLUMBING SPECIALTIES SCHEDULE

Table with 10 columns: MARK, DESCRIPTION, MAKE, MODEL, MIN. CONNECTION SIZE (CW, HW, WASTE), MINIMUM TRAP SIZE, MINIMUM VENT SIZE, REMARKS. Lists specialties like floor drains, oil/sediment separator drains, wall hydrants, etc.

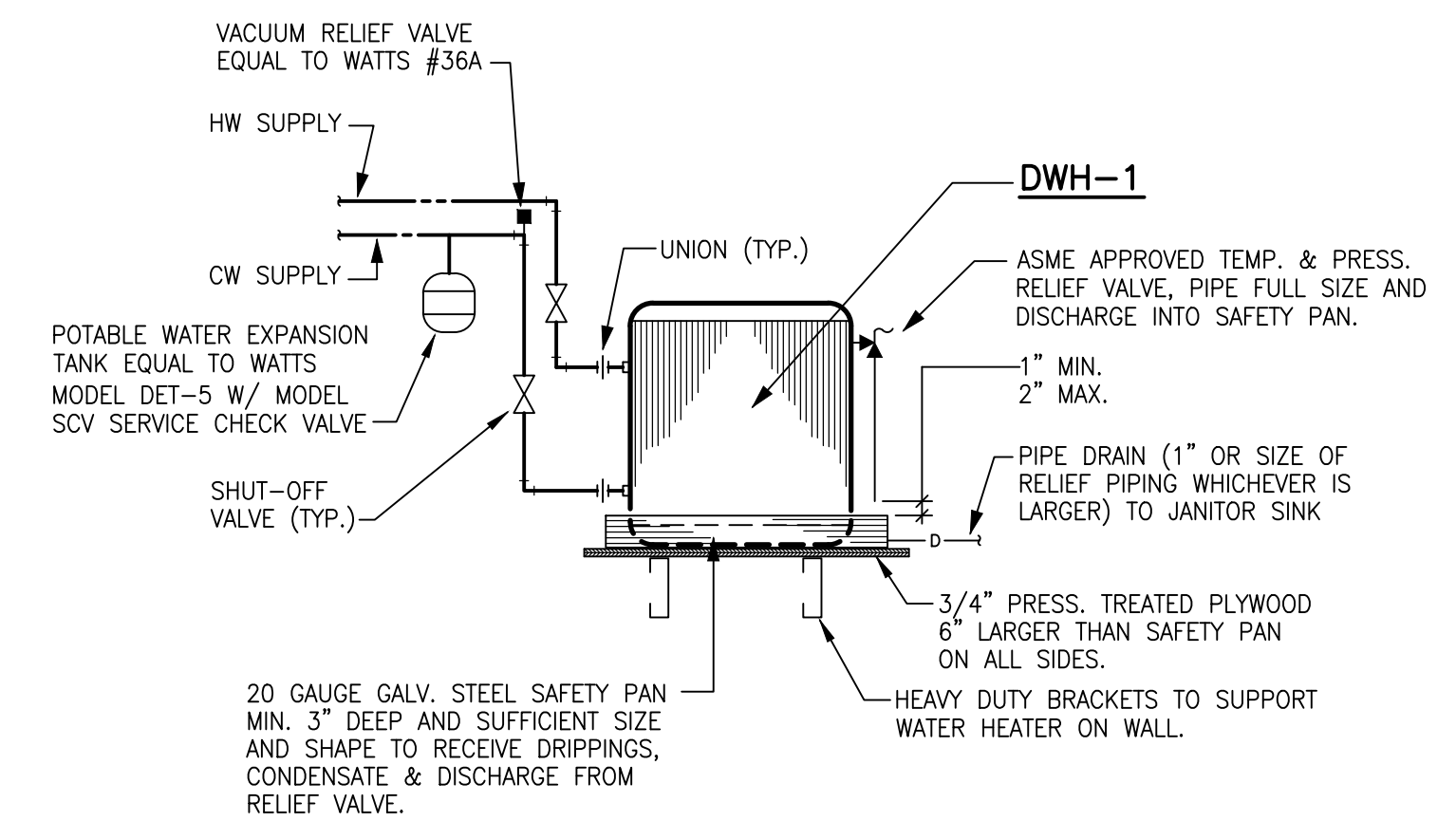
- 1 PRECISION PLUMBING PRODUCTS

WATER HEATER SCHEDULE

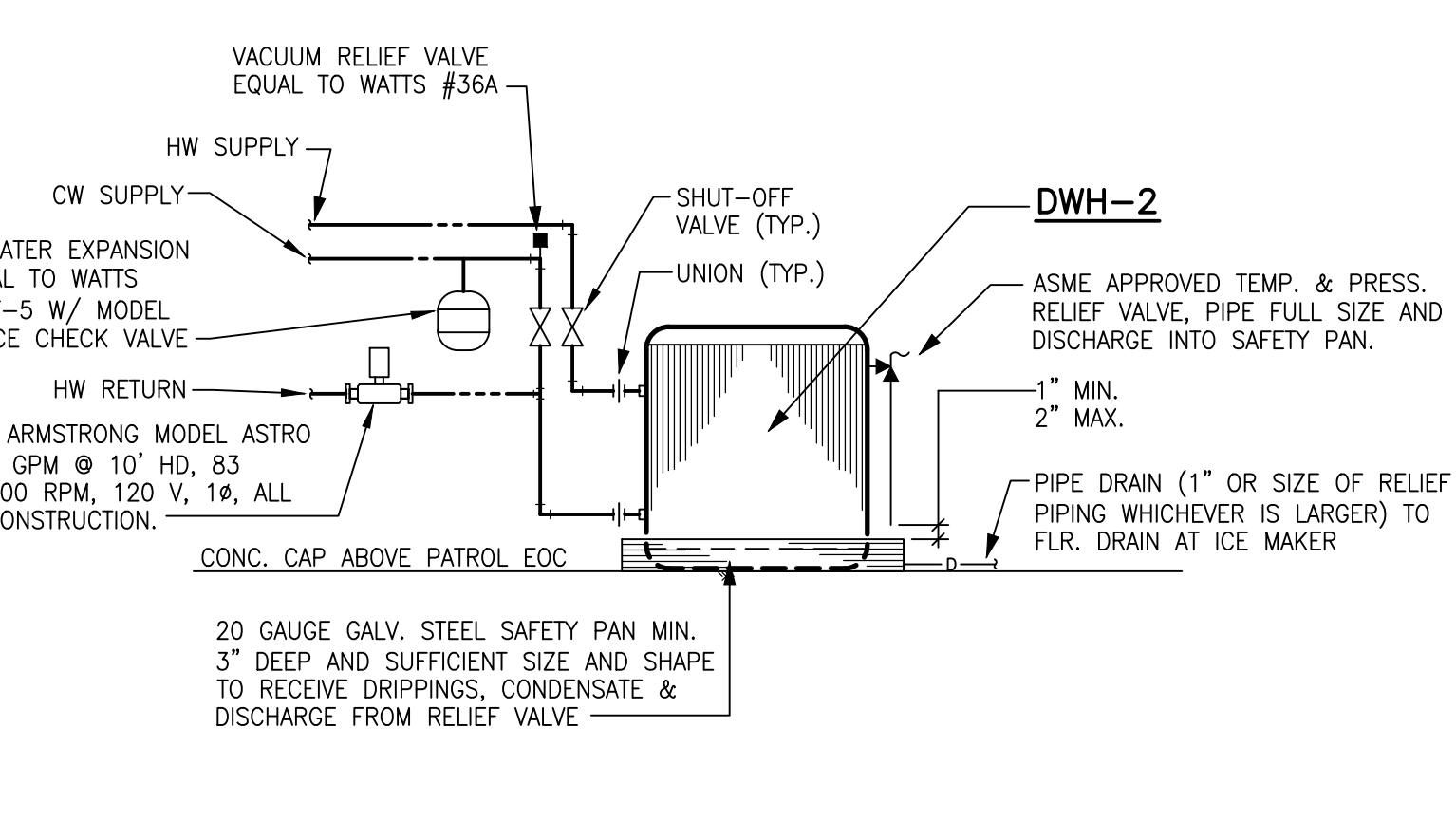
Table with 12 columns: MARK, MAKE, MODEL, TYPE, MIN. STORAGE CAPACITY (GAL.), MIN. RECOVERY (G.P.H.), DISCHARGE TEMP. °F, TEMP. RISE °F, ELECTRICAL (HP, KW, VOLTS, PHASE), TYPE GAS, BTUH INPUT, FLUE SIZE, REMARKS. Lists water heaters like DEL-20, DEL-30, SPEX3208T ML, etc.



1 SPRINKLER RISER DETAIL
P301 NOT TO SCALE



2 WATER HEATER PIPING DETAIL
P301 NOT TO SCALE



3 WATER HEATER PIPING DETAIL
P301 NOT TO SCALE

3" = 1'-0" GRAPHIC SCALE

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

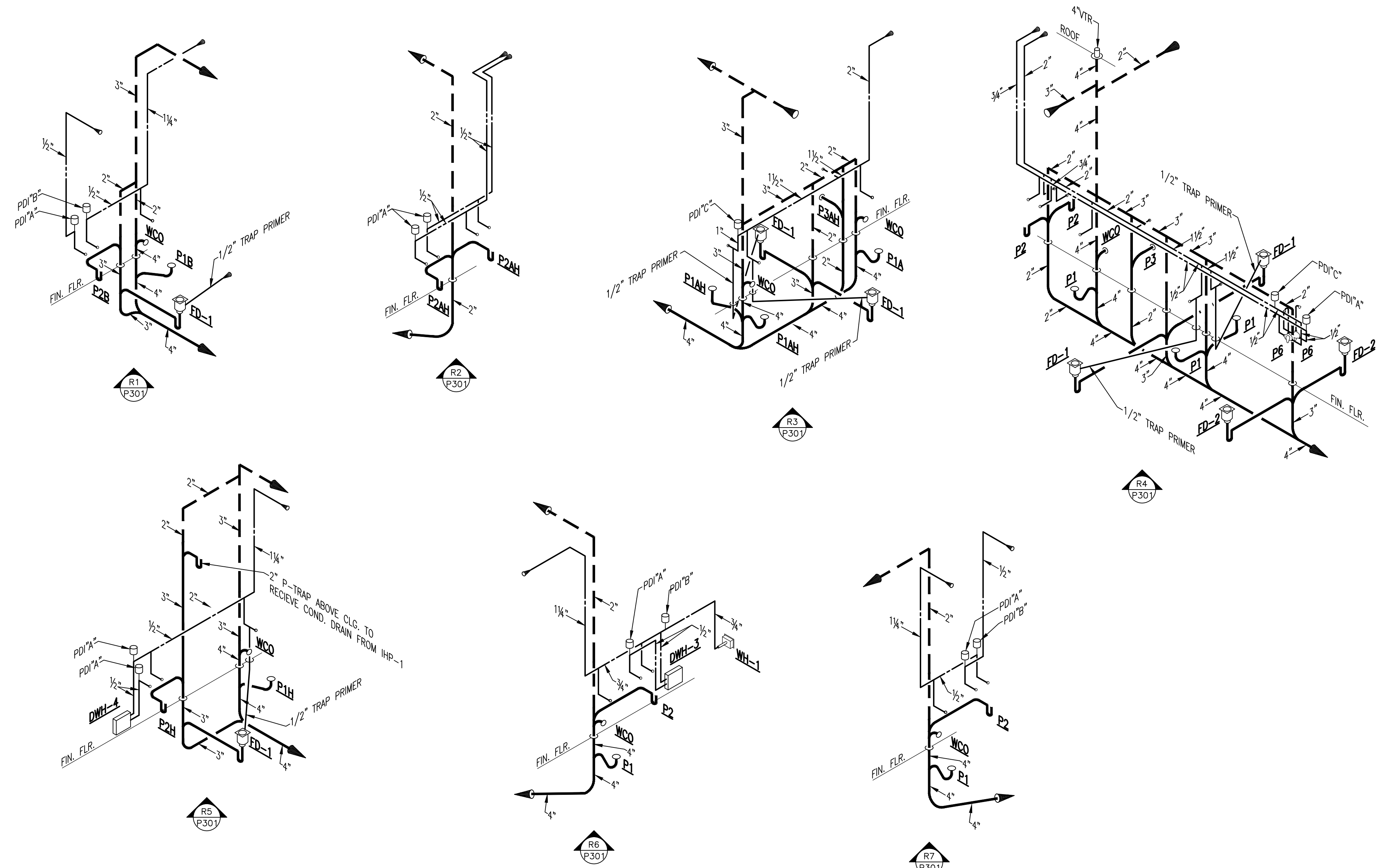
1" = 1'-0" GRAPHIC SCALE

3/4" = 1'-0" GRAPHIC SCALE

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

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

0.125" = 1'-0" GRAPHIC SCALE



4 PLUMBING RISERS
P301 NOT TO SCALE

**GENERAL NOTES**

- ALL DUCT RUNOUTS TO AIR DISTRIBUTION DEVICES (SUPPLY, RETURN, EXHAUST) SHALL HAVE MANUAL VOLUME DAMPERS AS CLOSE TO TRUNK DUCT AS POSSIBLE.

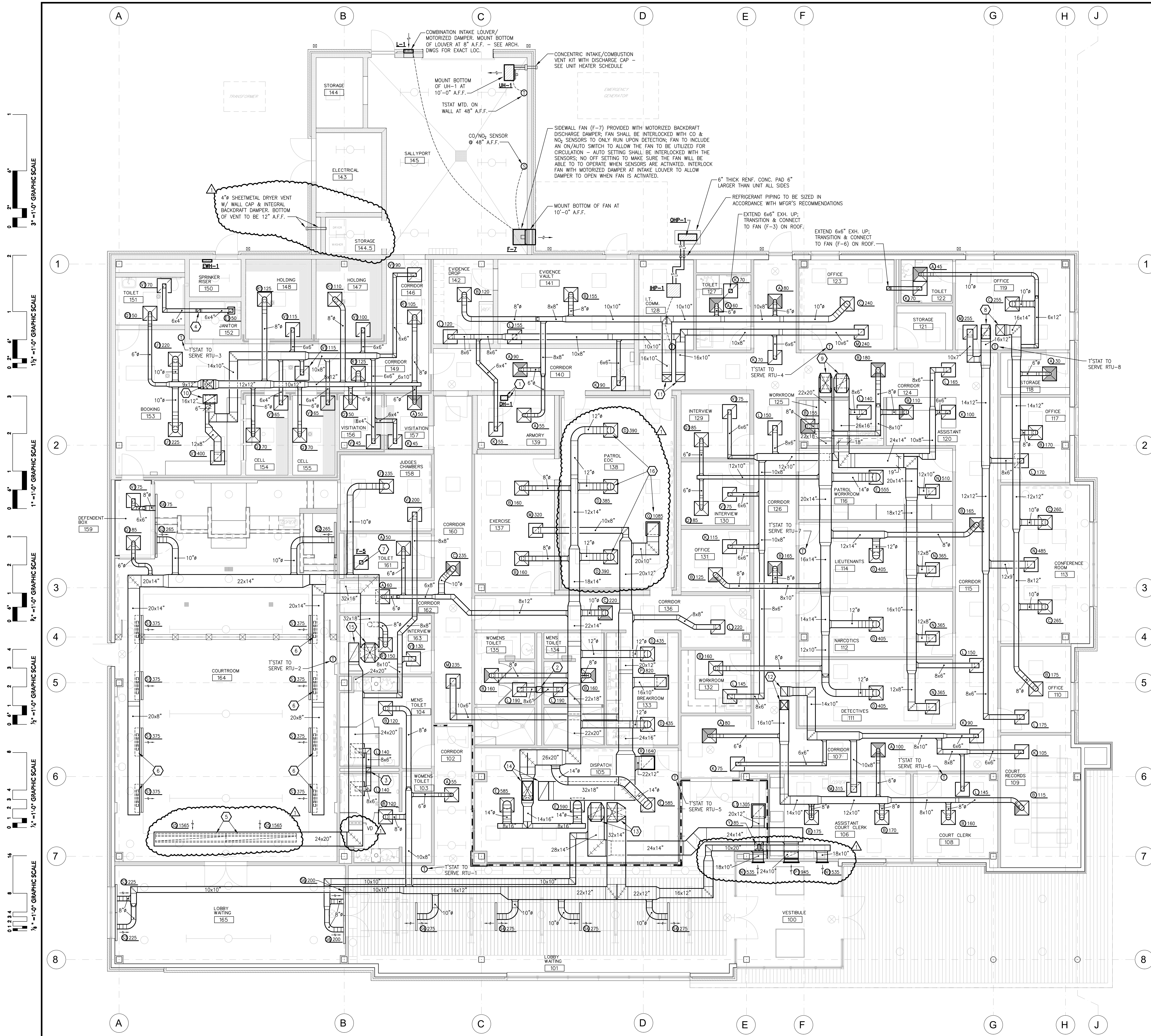
- SHEET KEYNOTE LEGEND**
- MOUNT DEHUMIDIFIER (DH-1) ON WALL ABOVE DOOR AND BELOW CEILING. EXTEND 1 1/2" PVC PIPE FROM WET-AIR-OUT DISCHARGE CONNECTION ON DEHUMIDIFIER UP THROUGH ROOF & TERMINATE ABOVE ROOF WITH GOOSENECK. INSTALL INSECT SCREEN ON OPEN END OF GOOSENECK ABOVE ROOF.
  - EXTEND 10x10" EXHAUST UP THROUGH ROOF; TRANSITION & CONNECT TO FAN (F-4).
  - EXTEND 8x8" EXHAUST UP THROUGH ROOF; TRANSITION & CONNECT TO FAN (F-1).
  - EXTEND 6x6" EXHAUST UP THROUGH ROOF; TRANSITION & CONNECT TO FAN (F-2).
  - FIELD BUILD RETURN PLENUM FULL SIZE OF LINEAR SLOT (SS); EXTEND 120x8" RETURN DUCT DOWN FROM 24x20" RETURN DUCT LOCATED ABOVE PLENUM & CONNECT TO TOP OF PLENUM. COORDINATE WITH FRAMING AT CEILING FLOOR-DOWN.
  - FIELD BUILD RETURN PLENUM FULL SIZE OF LINEAR SLOT (S1); EXTEND 28x4" SUPPLY DUCT DOWN FROM 20x14" SUPPLY DUCT LOCATED ABOVE PLENUM & CONNECT TO TOP OF PLENUM. COORDINATE WITH FRAMING AT CEILING FLOOR-DOWN.
  - EXTEND 6x6" EXHAUST UP THROUGH ROOF; TRANSITION & CONNECT TO FAN (F-5).
  - 16x14" SUPPLY & 16x12" RETURN UP THROUGH ROOF TO RTU-8; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 22x20" SUPPLY & 26x16" RETURN UP THROUGH ROOF TO RTU-7; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 18x16" SUPPLY & 16x12" RETURN UP THROUGH ROOF TO RTU-3; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 16x10" SUPPLY & 16x10" RETURN UP THROUGH ROOF TO RTU-4; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 16x10" SUPPLY & 14x10" RETURN UP THROUGH ROOF TO RTU-6; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 32x14" SUPPLY & 28x14" RETURN UP THROUGH ROOF TO RTU-1; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 32x20" SUPPLY & 32x18" RETURN UP THROUGH ROOF TO RTU-5; TRANSITION TO DUCT CONNECTION AT UNIT.
  - 32x18" SUPPLY & 18x32" RETURN UP THROUGH ROOF TO RTU-2; TRANSITION TO DUCT CONNECTION AT UNIT.
  - PROVIDE OPENINGS THROUGH CONCRETE CAP ABOVE PATROL EOC ROOM 138 TO ALLOW 12" SUPPLY DUCTS & 20x20" RETURN DUCT TO EXTEND THROUGH CONCRETE CAP FOR CONNECTION TO SUPPLY DIFFUSERS & RETURN GRILLE.



Project No.: 22093  
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CITY OF GLUCKSTADT  
 POLICE STATION AND MUNICIPAL COURT  
 GLUCKSTADT, MS

Sheet Number:  
**M201**  
 FLOOR PLAN - HVAC



3" = 1'-0" GRAPHIC SCALE  
 1 1/2" = 1'-0" GRAPHIC SCALE  
 1" = 1'-0" GRAPHIC SCALE  
 3/4" = 1'-0" GRAPHIC SCALE  
 1/2" = 1'-0" GRAPHIC SCALE  
 1/4" = 1'-0" GRAPHIC SCALE

NORTH  
 1  
**FLOOR PLAN - HVAC**  
 SCALE: 3/16" = 1'-0"

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## ELECTRICAL LEGEND

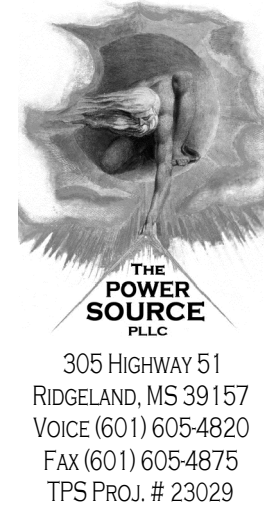
GENERAL NOTES	SWITCHES	CONDUIT AND WIRING																											
<p>1. ALL EQUIPMENT AND DEVICES ARE TO BE FLUSH MOUNTED UNLESS OTHERWISE NOTED.</p> <p>2. DEVICES NOTED AS "GFI" SHALL BE GROUND FAULT CIRCUIT INTERRUPTING DEVICES.</p> <p>3. DEVICES NOTED AS "WP" SHALL BE WEATHERPROOF WHILE-IN-USE.</p> <p>4. DEVICES NOTED AS "DL" SHALL BE RATED FOR DAMP LOCATION.</p> <p>5. DEVICES NOTED AS "NL" SHALL BE NIGHT LIGHTS. PROVIDE UNSWITCHED POWER TO FIXTURE.</p> <p>6. DEVICES NOTED AS "WC" SHALL BE PROVIDED AND INSTALLED WITH A WIRE GUARD.</p> <p>7. DEVICES NOTED AS "TR" SHALL BE TAMPER RESISTANT.</p> <p>8. PROVIDE UNSWITCHED POWER TO EMERGENCY BATTERY PACKS.</p> <p>9. "W/E" INDICATES DEVICE/DISCONNECT PROVIDED WITH THE EQUIPMENT BY OTHERS.</p>	<p>§ SINGLE-POLE, SINGLE-THROW SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>2P§ DOUBLE-POLE, SINGLE-THROW, 30 AMP SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>3P§ THREE-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>4P§ FOUR-WAY SWITCH. MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>Ø LED DIMMER EQUAL TO LEVITON #P710-LF2 MOUNT CENTERLINE OF BOX AT 45"A.F.F. UNLESS NOTED OTHERWISE.</p> <p>M§ AUTOMATIC WALL SWITCH, SENSOR SWITCH #WSXA-PDT OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45" A.F.F. UNLESS NOTED OTHERWISE.</p> <p>MØ AUTOMATIC WALL SWITCH WITH INTEGRAL 0-10V DIMMER. SENSOR SWITCH #WSXA-PDT-D-VA OR APPROVED EQUAL. MOUNT CENTERLINE OF BOX AT 45" A.F.F. UNLESS NOTED OTHERWISE.</p> <p>§7 HORSEPOWER RATED SWITCH WITH THERMAL OVERLOADS (MANUAL MOTOR STARTER).</p> <p>Ⓜ PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 12' RADIAL COVERAGE. CEILING MOUNTED. SENSOR SWITCH #CM-PDT-9 OR APPROVED EQUAL.</p> <p>Ⓜ PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 28' RADIAL COVERAGE. CEILING MOUNTED. SENSOR SWITCH #CM-PDT-10 OR APPROVED EQUAL.</p> <p>Ⓜ PASSIVE INFRARED AND ULTRASONIC DUAL TECHNOLOGY OCCUPANCY SENSOR WITH A 2000 SQ. FT. COVERAGE. MOUNT IMMEDIATELY BELOW CEILING. SENSOR SWITCH #WV-PDT-16 OR APPROVED EQUAL.</p> <p>Ⓜ POWER PACK MOUNTED ABOVE CEILING. SENSOR SWITCH #PP20 OR APPROVED EQUAL.</p>	<p>CONDUCTORS IN CONDUIT CONCEALED WITHIN WALL OR CEILING. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. FOR EXAMPLE, THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.</p> <p>THE TEXT INSIDE THE ARC INDICATES THE AWG SIZE OF THE CONDUCTORS THAT SHALL BE RUN IN THE CONDUIT. THE ABSENCE OF TEXT SIGNIFIES THAT THE CONDUCTORS SHOULD BE #12 AWG.</p> <p>CIRCUITRY RUN IN STRAIGHT LINE SEGMENTS SIGNIFIES EXPOSED SURFACE-MOUNTED RACEWAY (SEE SPECIFICATIONS).</p> <p>CONDUCTORS IN CONDUIT CONCEALED BELOW GRADE OR FLOOR. TIC MARKS INDICATE NUMBER OF CONDUCTORS. THE EQUIPMENT GROUNDING CONDUCTOR IS NOT SHOWN, BUT SHALL BE PROVIDED. SIZE THE EQUIPMENT GROUNDING CONDUCTOR AND THE CONDUIT PER THE NEC. THE ABSENCE OF TIC MARKS SIGNIFIES THAT TWO CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED. THE MARKINGS TO THE LEFT SIGNIFY THAT THREE CONDUCTORS PLUS AN EQUIPMENT GROUNDING CONDUCTOR SHOULD BE PROVIDED.</p> <p>HOMERUN TO PANELBOARD. ARC DENOTES CONCEALED CIRCUITRY. TEXT DENOTES PANELBOARD NAME WITH CIRCUIT NUMBER. DEVICES HAVING CIRCUIT NUMBERS LOCATED BESIDE THEM MAY NOT SHOW THE CIRCUIT NUMBERS AT THE HOMERUN ARROWS.</p> <p>PARTIAL HOMERUN TO PANELBOARD. COMBINE ALL PARTIAL HOMERUNS THAT ARE ON THE SAME CIRCUIT IN A JUNCTION BOX PRIOR TO ENTERING THE PANELBOARD.</p> <p>LOW VOLTAGE CONDUCTORS USED FOR MOTION DETECTOR CIRCUITRY. SEE MANUFACTURER'S RECOMMENDATIONS FOR CONDUCTOR REQUIREMENTS.</p>																											
<p><b>LUMINAIRES (See Light Fixture Schedule)</b></p> <p>NOTE: THE NUMBER INSIDE THE CIRCLE IS THE CIRCUIT NUMBER. THE LETTER BESIDE THE SYMBOL IS THE FIXTURE TYPE DESCRIBED IN THE LIGHT FIXTURE SCHEDULE.</p> <p>Ⓜ 2'X2' RECESSED FIXTURE.</p> <p>Ⓜ 2'X4' RECESSED FIXTURE.</p> <p>Ⓜ RECESSED LINEAR FIXTURE.</p> <p>Ⓜ 2'X2' RECESSED EMERGENCY FIXTURE.</p> <p>Ⓜ 2'X4' RECESSED EMERGENCY FIXTURE.</p> <p>Ⓜ RECESSED LINEAR EMERGENCY FIXTURE.</p> <p>Ⓜ SURFACE MOUNTED OR SUSPENDED FIXTURE.</p> <p>Ⓜ SURFACE MOUNTED OR SUSPENDED EMERGENCY FIXTURE.</p> <p>Ⓜ RECESSED CEILING FIXTURE.</p> <p>Ⓜ RECESSED EMERGENCY CEILING FIXTURE.</p> <p>Ⓜ CEILING MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.</p> <p>Ⓜ WALL MOUNTED EXIT SIGN. PROVIDE CHEVRONS AS INDICATED BY ARROWS.</p> <p>Ⓜ WALL MOUNTED FIXTURE.</p> <p>Ⓜ WALL MOUNTED LINEAR FIXTURE.</p> <p>Ⓜ WALL MOUNTED EMERGENCY LINEAR FIXTURE.</p> <p>Ⓜ SITE ARM MOUNT POLE LIGHT FIXTURE.</p> <p>Ⓜ WALLWASH OR SPOT LIGHT FIXTURE.</p> <p>Ⓜ IN-GRADE MOUNTED FIXTURE.</p>	<p style="text-align: center;"><b>ACCESS CONTROL</b></p> <p>Ⓜ CARD READER.</p> <p>Ⓜ PUSH TO EXIT BUTTON.</p> <p>Ⓜ MOTION DETECTOR TO RELEASE MAGNETIC LOCK.</p> <p>Ⓜ MAGNETIC LOCK.</p> <p>Ⓜ ELECTRIC LATCH.</p> <p>Ⓜ ELECTRIC DOOR STRIKE.</p> <p>Ⓜ ACCESS CONTROL PANEL.</p> <p>Ⓜ HANDICAP PUSH/PAD FURNISHED WITH AUTOMATIC DOOR OPERATOR, INSTALLED BY ELECTRICAL CONTRACTOR.</p>	<p style="text-align: center;"><b>VOLTAGE DROP CHART FOR 20A, 1Ø CIRCUITS</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Voltage</th> <th>Circuit Length</th> <th>Conductor Size (AWG)</th> </tr> </thead> <tbody> <tr> <td>120</td> <td>&lt; 50'</td> <td>#12</td> </tr> <tr> <td>120</td> <td>&gt; 50'</td> <td>#10</td> </tr> <tr> <td>120</td> <td>&gt; 90'</td> <td>#8</td> </tr> <tr> <td>120</td> <td>&gt; 140'</td> <td>#6</td> </tr> <tr> <td>277</td> <td>&lt; 130'</td> <td>#12</td> </tr> <tr> <td>277</td> <td>&gt; 130'</td> <td>#10</td> </tr> <tr> <td>277</td> <td>&gt; 200'</td> <td>#8</td> </tr> <tr> <td>277</td> <td>&gt; 330'</td> <td>#6</td> </tr> </tbody> </table> <p><b>RECEPTACLES</b></p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.</p> <p>Ⓜ DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE.</p> <p>Ⓜ DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R, ONE COVER PLATE, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45" A.F.F. TO CENTERLINE OF BOX.</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE RECEPTACLE IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45" A.F.F. TO CENTERLINE OF BOX.</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, FOR DRINKING FOUNTAIN FED FROM GFCI BREAKER. MOUNTED IN ACCORDANCE WITH MANUFACTURER'S ROUGH-IN REQUIREMENTS. VERIFY CONNECTION TYPE PRIOR TO BID. RECEPTACLE SHALL BE MOUNTED, CONCEALED BEHIND THE SHROUD OF THE DRINKING FOUNTAIN.</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R, MOUNTED FLUSH IN THE CEILING UNLESS NOTED OTHERWISE.</p>	Voltage	Circuit Length	Conductor Size (AWG)	120	< 50'	#12	120	> 50'	#10	120	> 90'	#8	120	> 140'	#6	277	< 130'	#12	277	> 130'	#10	277	> 200'	#8	277	> 330'	#6
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<p><b>MISCELLANEOUS</b></p> <p>Ⓜ CONTACTOR.</p> <p>Ⓜ PHOTOCELL.</p> <p>Ⓜ CEILING MOUNTED JUNCTION BOX.</p> <p>Ⓜ WALL MOUNTED JUNCTION BOX.</p> <p>Ⓜ FLEXIBLE CONNECTION TO EQUIPMENT.</p> <p>Ⓜ REMOTE ANNUNCIATOR PANEL.</p>	<p style="text-align: center;"><b>COMMUNICATIONS (Cable Pulled in Contract)</b></p> <p>Ⓜ COMBINATION TELEPHONE/DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. OUTLET SHALL HAVE ONE TELEPHONE JACK AND THREE DATA JACKS UNLESS NOTED OTHERWISE WITH "P" AND "D" AS SHOWN.</p> <p>Ⓜ COMBINATION TELEPHONE/DATA OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE TELEPHONE/DATA OUTLET IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45" A.F.F. TO CENTERLINE OF BOX. OUTLET SHALL HAVE ONE TELEPHONE JACK AND THREE DATA JACKS UNLESS NOTED OTHERWISE.</p> <p>Ⓜ DATA OUTLET MOUNTED 18" A.F.F. TO CENTERLINE OF BOX UNLESS NOTED OTHERWISE. DATA OUTLET SHALL HAVE TWO JACKS UNLESS NOTED OTHERWISE WITH NUMBER BESIDE SYMBOL.</p> <p>Ⓜ DATA OUTLET MOUNTED WITH BOTTOM OF BOX 2" ABOVE COUNTER BACKSPLASH. WHERE THERE IS NO BACKSPLASH MOUNT 6" ABOVE COUNTER. WHERE TELEPHONE/DATA OUTLET IS SHOWN IN AN AREA WITH NO COUNTER, MOUNT 45" A.F.F. TO CENTERLINE OF BOX. DATA OUTLET SHALL HAVE TWO JACKS UNLESS NOTED OTHERWISE WITH NUMBER BESIDE SYMBOL.</p> <p>Ⓜ DUPLEX RECEPTACLE, NEMA 5-20R AND A COMBINATION TELEPHONE/DATA OUTLET MOUNTED IN A FLOOR BOX. COMMUNICATION OUTLET SHALL HAVE ONE TELEPHONE JACK AND ONE DATA JACK UNLESS NOTED OTHERWISE.</p> <p>Ⓜ DOUBLE DUPLEX RECEPTACLE, NEMA 5-20R AND A COMBINATION TELEPHONE/DATA OUTLET MOUNTED IN A FLOOR BOX. COMMUNICATION OUTLET SHALL HAVE ONE TELEPHONE JACK AND ONE DATA JACK UNLESS NOTED OTHERWISE.</p> <p>Ⓜ WIFI.</p>	<p style="text-align: center;"><b>INTRUSION DETECTION SYSTEM</b></p> <p>Ⓜ KEYPAD.</p> <p>Ⓜ MOTION DETECTOR.</p> <p>Ⓜ GLASS BREAK DETECTOR.</p> <p>Ⓜ DOOR CONTACT.</p> <p>Ⓜ ALARM HORN.</p> <p>Ⓜ INTRUSION DETECTION CONTROL PANEL.</p>																											
<p><b>GEAR</b></p> <p>Ⓜ FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE; F=(RATING OF FUSES).</p> <p>Ⓜ NON-FUSED DISCONNECT SWITCH. TEXT INDICATES AMPACITY/NUMBER OF POLES/ENCLOSURE TYPE.</p> <p>Ⓜ PANELBOARD.</p>																													
<p><b>INTERCOM SYSTEM</b></p> <p>Ⓜ CEILING SPEAKER.</p> <p>Ⓜ HORN TYPE SPEAKER.</p> <p>Ⓜ WALL MOUNT SPEAKER.</p> <p>Ⓜ SURFACE MOUNT SPEAKER.</p> <p>Ⓜ CALL-IN SWITCH.</p> <p>Ⓜ INTERCOM MASTER STATION WITH DOOR RELEASE. DESKTOP MOUNT.</p>																													
<p><b>CCTV SYSTEM</b></p> <p>Ⓜ CEILING MOUNTED CAMERA.</p> <p>Ⓜ DESK MOUNTED MONITOR.</p>																													

## LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	PART NUMBER	LAMPS	MOUNTING	REMARKS
A	LITHONIA	CPX-2X2-AL07-80CRI+SWW7-SWL ZT-MOLT	LED, 32.8W 4,577 LUMENS	RECESSED	
AE	LITHONIA	CPX-2X2-AL07-80CRI+SWW7-SWL ZT-MOLT-E10WLCP	LED, 32.8W 4,577 LUMENS	RECESSED	WITH EMERGENCY BATTERY PACK.
B	LITHONIA	CPX-2X2-AL07-80CRI+SWW7-SWL ZT-MOLT	LED, 26W 3,587 LUMENS	RECESSED	
BE	LITHONIA	CPX-2X2-AL07-80CRI+SWW7-SWL ZT-MOLT-E10WLCP	LED, 26W 3,587 LUMENS	RECESSED	WITH EMERGENCY BATTERY PACK.
C	KENALL	RMCD-4-TG-2/2-67L40K-DCC DV-2/2-1-	LED, 74W 6,649 LUMENS	RECESSED	
D	KENALL	SCD-2-1/1-25L40K-DCC DV-2/2-1-	LED, 28W 2,840 LUMENS	SURFACE	
F	LITHONIA	CLX-L48-7000LM-SEF-MVOLT G210-40K-80CRI-WH	LED, 62W 7,000 LUMENS	SURFACE	
FE	LITHONIA	CLX-L48-7000LM-SEF-MVOLT G210-40K-80CRI-E10WLCP-WH	LED, 62W 7,000 LUMENS	SURFACE	WITH EMERGENCY BATTERY PACK.
G	LITHONIA	LDN6-40/20-L06-AR-LS-TRW MVOLT-G210	LED, 28.3W 2,006 LUMENS	RECESSED	
GE	LITHONIA	LDN6-40/20-L06-AR-LS-TRW MVOLT-G210-EL	LED, 28.3W 2,006 LUMENS	RECESSED	WITH EMERGENCY BATTERY PACK
H	MARK	SL2L-LOP-4-FLP-FL-80CRI-40K 600LMF-MIN10-120-BLKT-ZT	LED, 24W 2,132 LUMENS	RECESSED	
HE	MARK	SL2L-LOP-4-FLP-FL-80CRI-40K 600LMF-MIN10-120-SLVT-ZT-E10WLCP	LED, 24W 2,132 LUMENS	RECESSED	WITH EMERGENCY BATTERY PACK.
J	FOCAL POINT	FNRS-FL40-1000LF-40K-IC-UNV LD1-HS-CLV24-CCS-PS-16-C8	LED, 151W 16,000 LUMENS	RECESSED	
K4	MARK	SL2L-LOP-4-FLP-FL-80CRI-40K 600LMF-MIN10-120-SLVT-ZT	LED, 24W 2,132 LUMENS	RECESSED	
K4E	MARK	SL2L-LOP-4-FLP-FL-80CRI-40K 600LMF-MIN10-120-SLVT-ZT	LED, 24W 2,132 LUMENS	RECESSED	
K8	MARK	SL2L-LOP-8-FLP-FL-80CRI-40K 600LMF-MIN10-120-SLVT-ZT	LED, 48W 4,264 LUMENS	RECESSED	
K8E	MARK	SL2L-LOP-8-FLP-FL-80CRI-40K 600LMF-MIN10-120-SLVT-E10WLCP-ZT	LED, 48W 4,264 LUMENS	RECESSED	
K12	MARK	SL2L-LOP-12-FLP-FL-80CRI-40K 600LMF-MIN10-120-SLVT-ZT	LED, 72W 6,396 LUMENS	RECESSED	
L	FOCAL POINT	FNRP-44-FL50-8000L-40K-1C UNV-LD1-HS-CLV48-CCS-PS	LED, 70W 8,000 LUMENS	PENDANT	
M	MARK	S2P0-LIP-8T-MSL8-80CRI-40K-1000LF-SC1 MN10-FL-MVOLT-SLVT-ZT-F2-72A-ROCI-SLVCY	LED, 64W 7,264 LUMENS	PENDANT	
N	SPI LIGHTING	AW10811-L14W-120-277V-4000K-1,352 LUMENS	LED, 14W 1,352 LUMENS	WALL	* COLOR BY ARCHITECT
P	LITHONIA	LDN6-40/05-L06-AR-LS-TRW MVOLT-G210	LED, 5.8W 527.9 LUMENS	RECESSED	
Q	LITHONIA	IC04UDWC-40/10-AR-LS-45D-U10LM U450-MVOLT-G210-8X-WL-DBL	LED, 20W 2,124 LUMENS	WALL	
R	LITHONIA	AFF-OEL-DBL8XD-UVOLT-LTP-SDRT WT-CW	LED	WALL	WITH EMERGENCY BATTERY PACK
S	LITHONIA	DSXF1 LED-P2-40K-WFL-MVOLT IS-FV-DBLXD	LED, 42W 5,573 LUMENS	SLIPFITTER GROUND	
SA	LITHONIA	RSX1 LED-P3-40K-R3-MVOLT-SPA PE-DBLXD	LED, 109W 14,023 LUMENS	POLE	POLE: SSS-25-5G-T20-DBLXD
SB	LITHONIA	RSX1 LED-P3-40K-R4-MVOLT-SPA PE-DBLXD	LED, 109W 14,206 LUMENS	POLE	POLE: SSS-25-5G-T20-DBLXD
SC	LITHONIA	DSXF1 LED-P1-40K-WFL-MVOLT IS-DBLXD	LED, 21W 3,058 LUMENS	SLIPFITTER GROUND	6' SETBACK FROM SIGN
SD	LITHONIA	DSXF3 LED-P4-40K-70CRI-WFL MVOLT-IS-DBLXD	LED, 189W 27,233 LUMENS	SLIPFITTER GROUND	8' SETBACK FROM FLAG POLE
X	LITHONIA	EDG-W-1-R-EL WT-CW	LED	WALL	WITH EMERGENCY BATTERY PACK
X2	LITHONIA	EDG-W-1-R-EL WT-CW	LED	CEILING	WITH EMERGENCY BATTERY PACK
X3	LITHONIA	EDG-W-2-R-EL WT-CW	LED	CEILING	WITH EMERGENCY BATTERY PACK
XV	KENALL	METSU-MW-R-DT-EL	LED	CEILING	WITH EMERGENCY BATTERY PACK

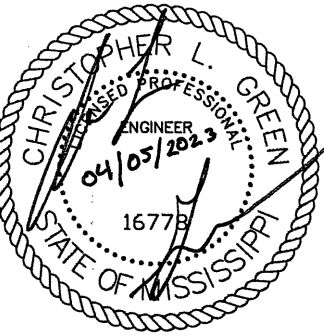
### ELECTRICAL SHEET INDEX

SHEET #	Description
E000	ELECTRICAL LEGEND AND FIXTURE SCHEDULE
E001	ELECTRICAL DETAILS
E002	ELECTRICAL DETAILS
E003	PANEL SCHEDULES
E004	SITE PLAN
E100	LIGHTING PLAN
E200	POWER PLAN
E300	AUXILIARY PLAN
E400	MECHANICAL PLAN
E401	MECHANICAL PLAN - ROOF



**DEAN**  
ARCHITECTURE  
GEDDIE | GRANT | OUBRE

461 Sunnysbrook, Ste 140  
Ridgeland, MS 39157  
601.939.7717  
deandean.com



CONSTRUCTION  
DOCUMENTS

Project No.: 22093  
Date: APRIL 5, 2023  
Drawn: HBS, CTB  
Checked: CLG  
Revisions: APRIL 17, 2023

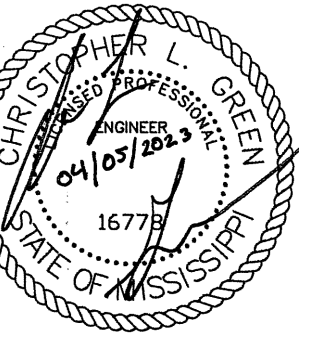
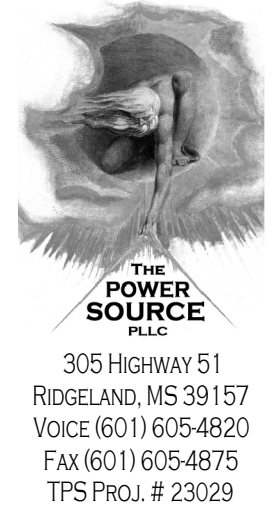
CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

Sheet Number:

E000

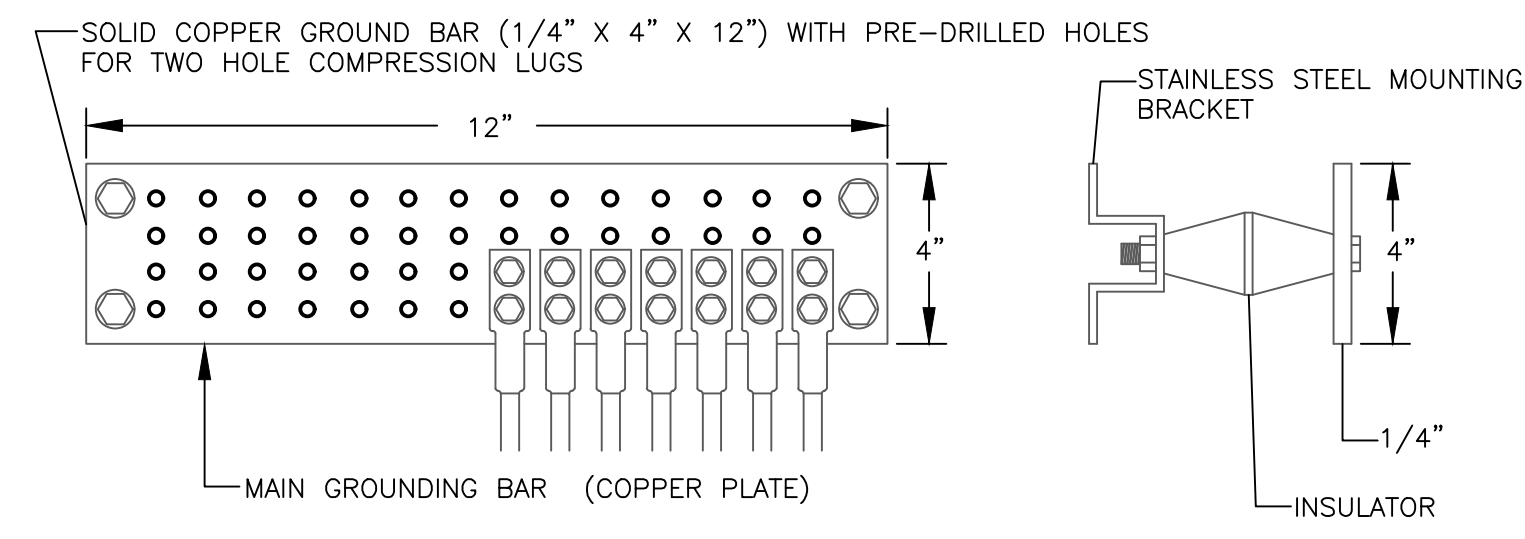
ELECTRICAL LEGEND  
AND FIXTURE  
SCHEDULE

3" = 1'-0" GRAPHIC SCALE  
 1 1/2" = 1'-0" GRAPHIC SCALE  
 1" = 1'-0" GRAPHIC SCALE  
 3/4" = 1'-0" GRAPHIC SCALE  
 1/2" = 1'-0" GRAPHIC SCALE  
 1/4" = 1'-0" GRAPHIC SCALE

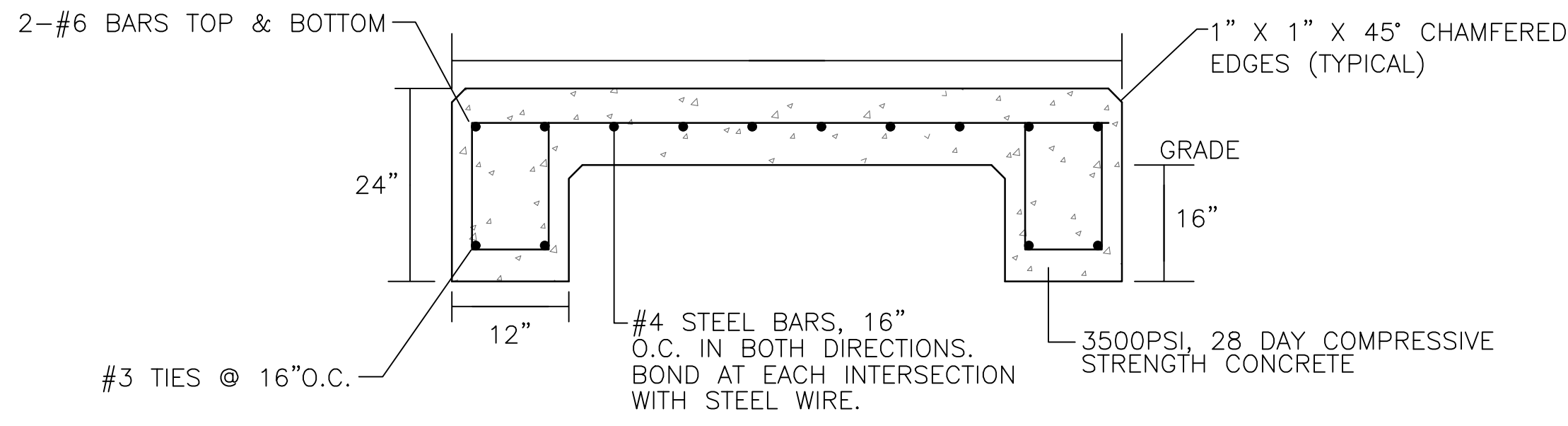


**GENERATOR PAD NOTE:**

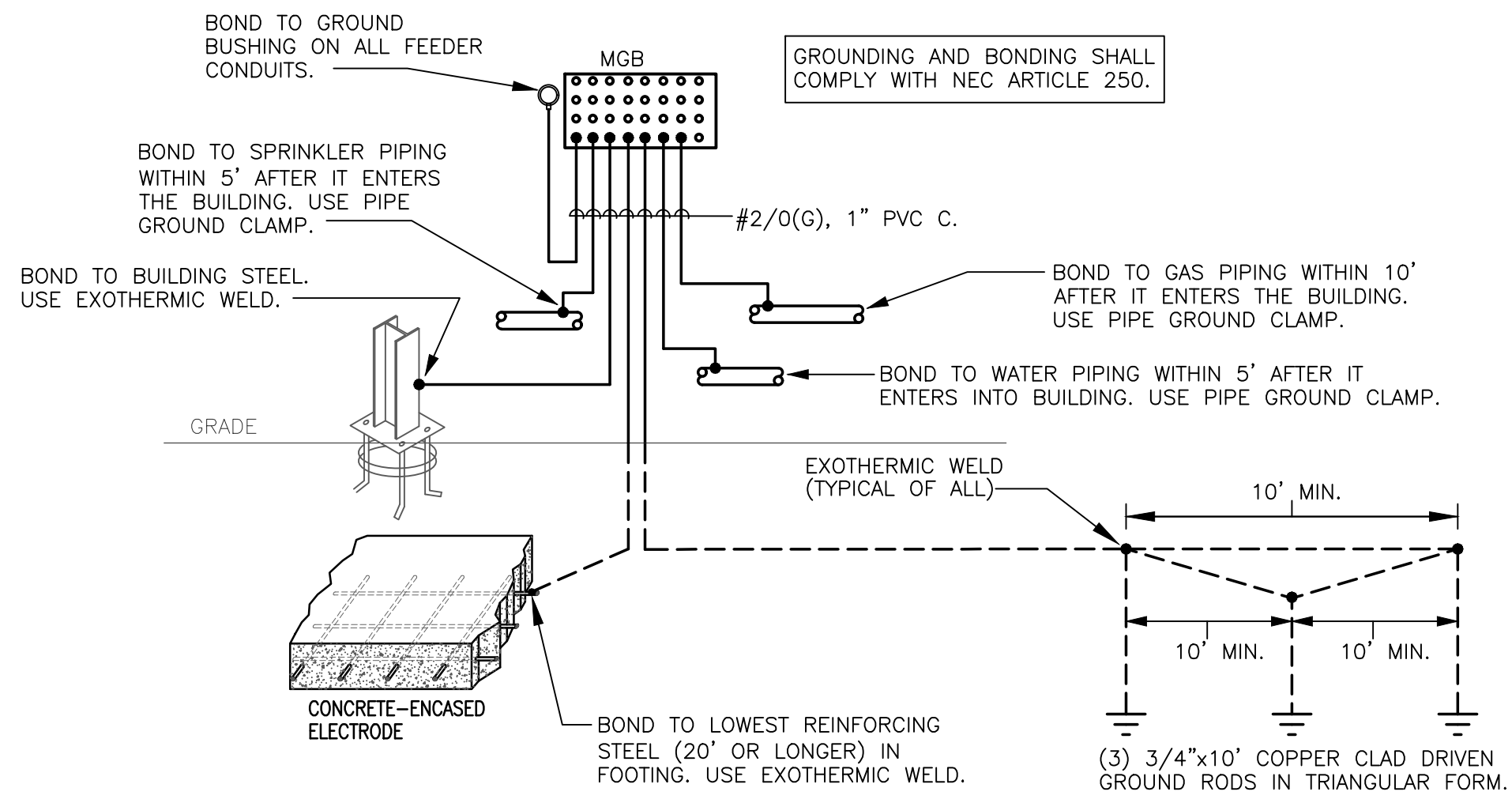
A. VERIFY GENERATOR DIMENSIONS AND CONDUIT STUB-UP LOCATIONS PRIOR TO POURING PAD. A 12" OVERHANG SHALL BE PROVIDED ON EACH SIDE OF THE GENERATOR. PROVIDE PVC SLEEVES AS REQUIRED FOR THE GROUNDING ELECTRODE CONDUCTORS. GENERATOR PAD SIZE SHALL BE ADJUSTED AS REQUIRED FOR ACTUAL GENERATOR THAT THE CONTRACTOR PROVIDES.



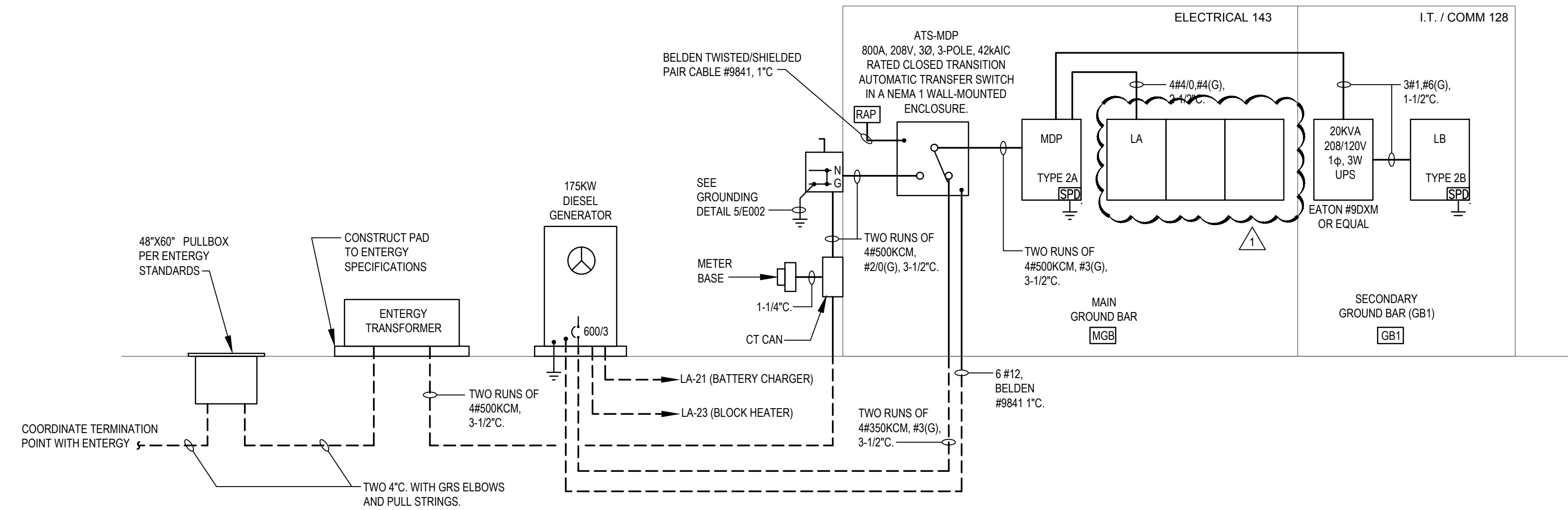
**4 GROUNDING BAR DETAIL (MGB)**  
Scale: NONE



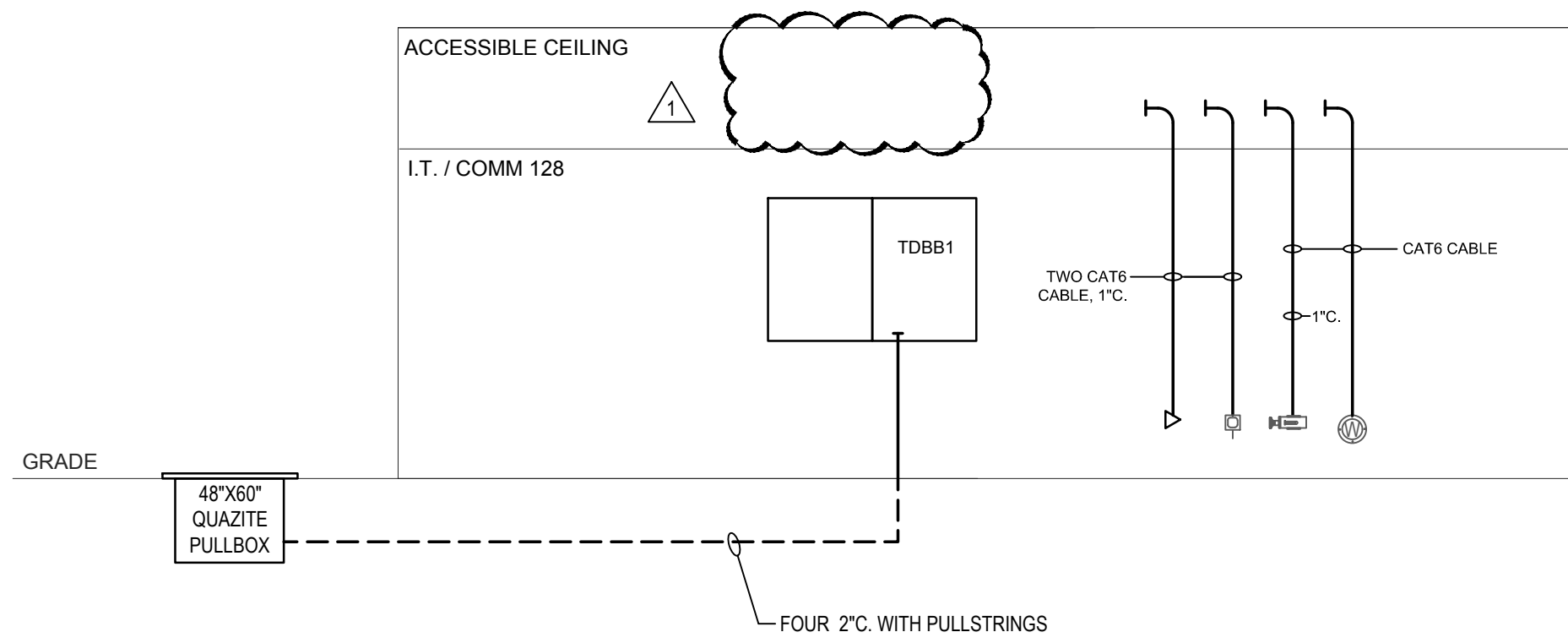
**6 GENERATOR PAD DETAIL**  
Scale: NONE



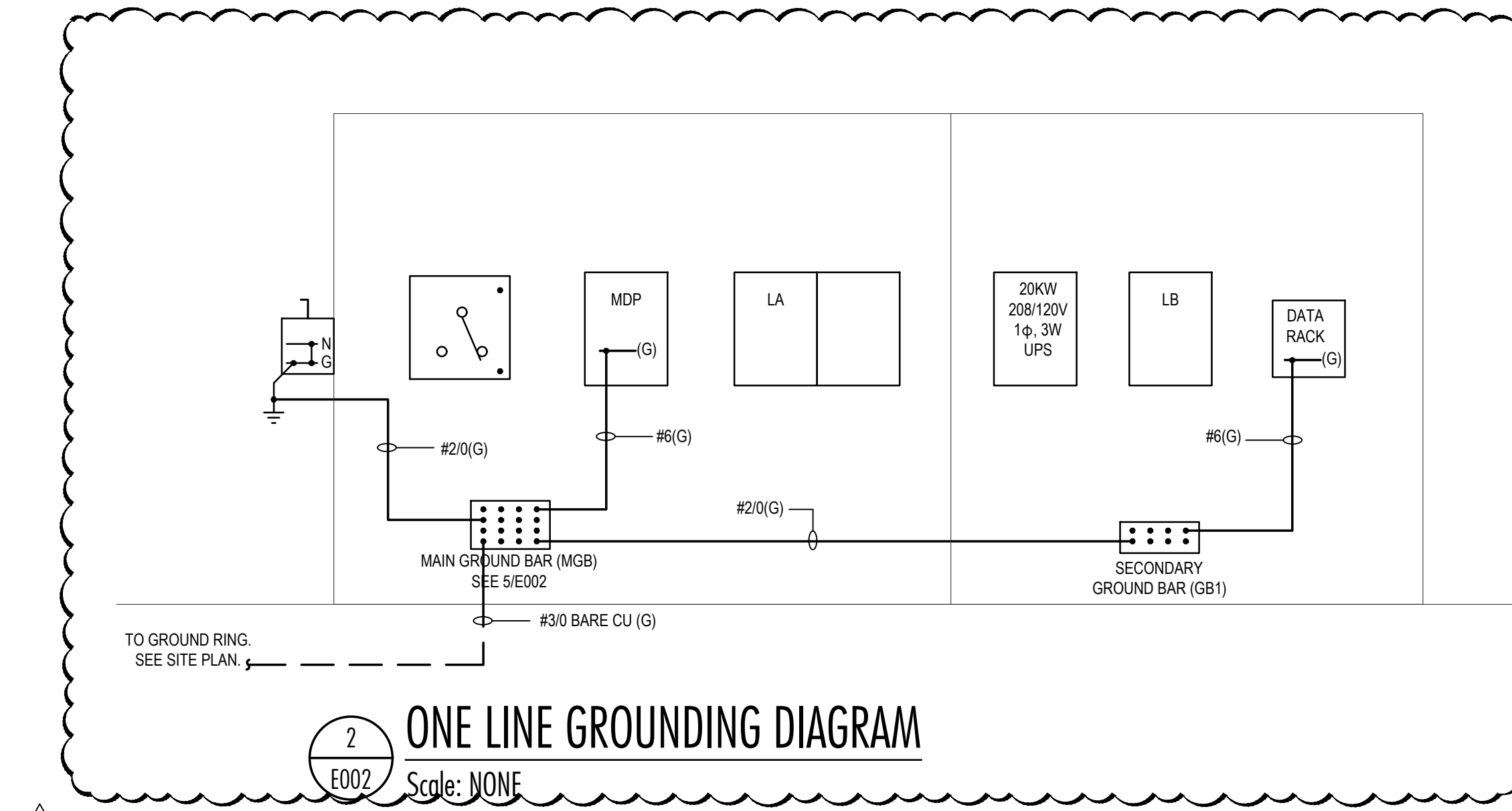
**5 GROUNDING DETAIL**  
Scale: NONE



**1 ONE LINE DIAGRAM**  
Scale: NONE

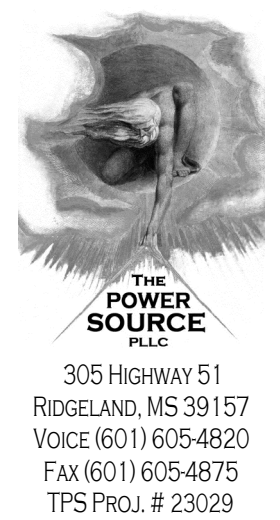


**3 TELEPHONE / DATA RISER DIAGRAM**  
Scale: NONE



**2 ONE LINE GROUNDING DIAGRAM**  
Scale: NONE

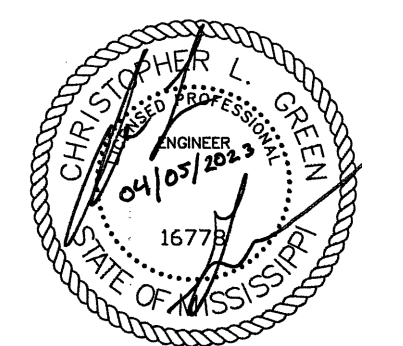
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1" = 1'-0" GRAPHIC SCALE  
3/4" = 1'-0" GRAPHIC SCALE  
3/8" = 1'-0" GRAPHIC SCALE  
1/2" = 1'-0" GRAPHIC SCALE  
1/4" = 1'-0" GRAPHIC SCALE  
1/8" = 1'-0" GRAPHIC SCALE



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 FAX (601) 605-4875  
 TFS PROJ. # 23029



641 Sunnysbrook, Ste 140  
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 601.939.7717  
 deanandean.com



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 Drawn: HBS, CTB  
 Checked: CLG  
 Revisions: APRIL 17, 2023

CITY OF GLUCKSTADT  
 POLICE STATION AND MUNICIPAL COURT  
 GLUCKSTADT, MS

Sheet Number:

E003

PANEL SCHEDULES

PANEL MDP			LOCATION: ELECTRICAL ROOM 143		LUG LOCATION: BOTTOM FEED MAIN LUGS ONLY			PANELBOARD SCRR RATING (A): 42,000		
VOLT: 208Y/120V, 3Ø, 4W			BUS: 800A		MAIN BUS MOUNTING: SURFACE			BREAKER		
CIRCUIT NO.	BREAKER	POLES	DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER	POLES	CIRCUIT NO.
				A	B	C				
1	60	3	RTU-1	4.1	6.5		RTU-5	90	3	2
3	-	-	-		4.1	6.5	-	-	-	4
5	-	-	-				-	-	-	6
7	80	3	RTU-2	5.4	4.1		RTU-7	60	3	8
9	-	-	-		5.4	4.1	-	-	-	10
11	-	-	-				-	-	-	12
13	25	3	RTU-3	1.8	1.8		RTU-8	25	3	14
15	-	-	-		1.8	1.8	-	-	-	16
17	-	-	-				-	-	-	18
19	30	2	RTU-4	1.7	0.0		SPARE	60	3	20
21	-	-	-		1.7	0.0	-	-	-	22
23	30	2	RTU-6	1.7	0.0		SPARE	80	3	24
25	-	-	-				-	-	-	26
27	20	2	DWH-1		1.5	0.0	-	-	-	28
29	-	-	-				-	-	-	30
31	40	2	DWH-2	3.0	0.0		SPARE	90	3	32
33	-	-	-				-	-	-	34
35	**20	2	DWH-3		3.0	0.0	-	-	-	36
37	-	-	-		1.5	0.0	-	-	-	38
39	**20	2	DWH-4		1.5	0.0	-	-	-	40
41	-	-	-				-	-	-	42
43	**50	2	DWH-5	4.2	0.0		SPARE	225	3	44
45	-	-	-		4.2	0.0	-	-	-	46
47	40	2	SPARE				-	-	-	48
49	-	-	-		0.0	24.5	-	-	-	50
51	100	2	PANEL "LB" (UPS #1)		10.0	27.1	-	-	-	52
53	-	-	-			10.0	24.6	-	-	54
<b>TOTAL</b>			** LOCKABLE BREAKER	60.3	72.7	64.6	* GFCI BREAKER			

PANEL LA - SEC. 1			LOCATION: ELECTRICAL ROOM		LUG LOCATION: BOTTOM FEED MAIN LUGS ONLY W/FEEED THRU L			PANELBOARD SCRR RATING (A): 22,000			
VOLT: 208Y/120V, 3Ø, 4W			BUS: 225A		MAIN BUS MOUNTING: SURFACE			BREAKER			
CIRCUIT NO.	BREAKER	POLES	DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER	POLES	CIRCUIT NO.	
				A	B	C					
1	20	1	LTS. BOOKING 153, HOLDING 148, VISIT 156	1.1	1.1		OHF-1 & HP-1	15	2	2	
3	20	1	LTS. ELEC 143, SALLY 145, CORR 140, EOC 138		1.3	1.1	-	-	-	4	
5	20	1	LTS. COMM 128, CORR 126, OFFICE 119, 123			1.2	0.7	F-7	15	1	6
7	20	1	LTS. CORR 107, 115, 124, DETEC 111, CONF 113	1.1	0.5		UH-1	15	1	8	
9	20	1	LTS. CORR 106, 100, 102, MEN 104, 134 WOMEN 104, 135			1.3	0.8	EVH-1	15	1	10
11	20	1	LTS. COURTROOM 164					DP-1	20	1	12
13	20	1	LTS. VEST 100, WAITING 101, CORR 102, WAITING 165	1.0	0.4		REC - ELECTRICAL 143, STO 144	20	1	14	
15	20	1	EXTERIOR BUILDING LIGHTS		0.8	0.7	REC - SALLY PORT 145	20	1	16	
17	20	1	EXTERIOR SITE LIGHTING			0.7	0.7	REC - VAULT 141, DROP 142, EXTERIOR	20	1	18
19	20	1	EXTERIOR SITE LIGHTING	0.7	0.8		REC - REFRIGERATOR	20	1	20	
21	20	1	GENERATOR BATTERY CHARGER		1.0	0.4	REC - CORRIDOR 146, 140	20	1	22	
23	20	1	GENERATOR BLOCK HEATER			1.0	0.4	REC - CORRIDOR 149, BOOKING 153	20	1	24
25	20	1	REC - CORRIDOR 124, 126	0.5	0.4		REC - JAN 152, TOILET 151	20	1	26	
27	20	1	REC - CORRIDOR 124, 126		0.5	0.4	REC - BOOKING 153	20	1	28	
29	20	1	REC - WORKROOM 125			0.4	0.2	REC - BOOKING 153	20	1	30
31	20	1	REC - COPIER	1.0	0.2		REC - BOOKING 153	20	1	32	
33	20	1	REC - ASSISTANT 120		0.5	0.4	REC - VISITATION 157, 156	20	1	34	
35	20	1	REC - OFFICE 123, TOILET 122			1.3	1.1	REC - JUDGES CHAMBERS 158	20	1	36
37	20	1	REC - OFFICE 119	1.1	0.5		REC - CORRIDOR 160, 162	20	1	38	
39	20	1	REC - OFFICE 117			0.7	0.4	REC - INTERVIEW 163	20	1	40
41	20	1	REC - CONFERENCE 113			0.9	0.4	REC - MENS TOILET 104	20	1	42
43	20	1	REC - OFFICE 110	0.9	0.4		REC - ARMORY 139	20	1	44	
45	20	1	REC - COURT RECORDS 109		0.5	0.5	REC - EXERCISE 137	20	1	46	
47	20	1	REC - COURT CLERK 108			0.9	0.5	REC - EXERCISE 137	20	1	48
49	20	1	REC - ASSISTANT COURT CLERK 106	0.7	0.5		REC - EXERCISE 137	20	1	50	
51	20	1	REC - COPIER		1.0	1.4	REC - PATROL EOC 138	20	1	52	
53	20	1	REC - OFFICE 131			0.9	0.7	REC - INTERVIEW 129, 130	20	1	54
<b>TOTAL</b>				12.8	13.6	13.8	* GFCI BREAKER				

PANEL LA - SEC. 2			LOCATION: ELECTRICAL ROOM		LUG LOCATION: TOP FEED MAIN LUGS ONLY W/FEEED THRU LUGS			PANELBOARD SCRR RATING (A): 22,000			
VOLT: 208Y/120V, 3Ø, 4W			BUS: 225A		MAIN BUS MOUNTING: SURFACE			BREAKER			
CIRCUIT NO.	BREAKER	POLES	DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER	POLES	CIRCUIT NO.	
				A	B	C					
55	20	1	REC - PATROL WORKROOM 116	0.7	0.4		REC - CORRIDOR 126, 107	20	1	56	
57	20	1	REC - PATROL WORKROOM 116		0.7	1.0	REC - COPIER	20	1	58	
59	20	1	REC - PATROL WORKROOM 116			0.7	0.4	REC - WORKROOM 132	20	1	60
61	20	1	REC - LIEUTENANTS 114	0.7	1.0		REC - VENDING MACHINE	20	1	62	
63	20	1	REC - LIEUTENANTS 114		0.7	1.0	REC - VENDING MACHINE	20	1	64	
65	20	1	REC - NARCOTICS 112			0.7	1.0	REC - VENDING MACHINE	20	1	66
67	20	1	REC - NARCOTICS 112	0.7	0.5		REC - BREAKROOM 133	20	1	68	
69	20	1	REC - DETECTIVES 111		0.7	0.5	REC - BREAKROOM 133	20	1	70	
71	20	1	REC - DETECTIVES 111			0.7	1.4	REC - MICROWAVE	20	1	72
73	20	1	REC - CORRIDOR 115, 107	0.4	0.8		REC - REFRIGERATOR	20	1	74	
75	20	1	REC - COURTROOM 164		0.7	1.0	REC - ICE MAKER	20	1	76	
77	20	1	REC - COURTROOM 164			0.5	0.4	REC - WOMENS 135, MENS 134	20	1	78
79	20	1	REC - COURTROOM 164	0.2	0.5		REC - LOBBY 101, VESTIBULE 100	20	1	80	
81	20	1	REC - COURTROOM 164		0.2	0.5	REC - LOBBY 165	20	1	82	
83	20	1	REC - COURTROOM 164			0.4	0.4	REC - LOBBY 165	20	1	84
85	20	1	REC - COURTROOM 164	0.4	0.4		REC - WOMENS 104	20	1	86	
87	20	1	REC - COURTROOM 164		0.4	0.5	CP-1	15	1	88	
89	20	1	REC - COURTROOM 164			0.4	0.5	FIRE ALARM BELL	20	1	90
91	20	1	REC - COURTROOM 164	0.4	0.5		IRRIGATION CONTROLLER	20	1	92	
93	20	1	REC - COPIER		1.0	0.9	REC - PATROL WORKROOM 116	20	1	94	
95	20	1	REC - COURTROOM 164			0.4	1.0	REC - WASHER	20	1	96
97	20	1	LTS - EXTERIOR GROUND MOUNT LIGHTING CONTACTOR	0.5	2.5		REC - DRYER	30	2	98	
99	20	1	POWER FOR MOTORIZED GATE		0.5	2.5	-	-	-	100	
101	20	1	POWER FOR MOTORIZED GATE			1.2	0.4	REC - EOC 138	20	1	102
103	20	1	POWER FOR MOTORIZED GATE	1.2	1.1		REC - EOC 138	20	1	104	
105	20	1	LTS - FLAG POLE / SIGN		0.6	0.0	SPARE	20	1	106	
107	20	1	POWER FOR FLUSH VALVE		0.5	0.0	SPARE	20	1	108	
<b>TOTAL</b>				12.8	13.5	10.7	* GFCI BREAKER				

PANEL LA - SEC. 3			LOCATION: ELECTRICAL ROOM		LUG LOCATION: BOTTOM FEED MAIN LUGS ONLY			PANELBOARD SCRR RATING (A): 22,000			
VOLT: 208Y/120V, 3Ø, 4W			BUS: 225A		MAIN BUS MOUNTING: SURFACE			BREAKER			
CIRCUIT NO.	BREAKER	POLES	DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER	POLES	CIRCUIT NO.	
				A	B	C					
109	20	1	SPARE	0.0	0.0		SPARE	20	1	110	
111	20	1	SPARE		0.0	0.0	SPARE	20	1	112	
113	20	1	SPARE			0.0	0.0	SPARE	20	1	114
115	20	1	SPARE	0.0	0.0		SPARE	20	1	116	
117	20	1	SPARE		0.0	0.0	SPARE	20	1	118	
119	20	1	SPARE			0.0	0.0	SPARE	20	1	120
121	20	1	SPARE	0.0	0.0		SPARE	20	1	122	
123	20	1	SPARE		0.0	0.0	SPARE	20	1	124	
125	20	1	SPARE			0.0	0.0	SPARE	20	1	126
127	20	1	SPARE	0.0	0.0		SPARE	20	1	128	
129	20	1	SPARE		0.0	0.0	SPARE	20	1	130	
131	20	1	SPARE			0.0	0.0	SPARE	20	1	132
133	20	1	SPARE	0.0	0.0		SPARE	20	1	134	
135	20	1	SPARE		0.0	0.0	SPARE	20	1	136	
137	20	1	SPARE			0.0	0.0	SPARE	20	1	138
139	20	1	SPARE	0.0	0.0		SPARE	20	1	140	
141	20	1	SPARE		0.0	0.0	SPARE	20	1	142	
143	20	1	SPARE			0.0	0.0	SPARE	20	1	144
145	20	1	SPARE			0.0	0.0	SPARE	20	1	146
147	20	1	SPARE	0.0	0.0		SPARE	20	1	148	
149	20	1	SPARE		0.0	0.0	SPARE	20	1	150	
151	20	1	SPARE		0.0	0.0	SPARE	20	1	152	
153	20	1	SPARE			0.0	0.0	SPARE	20	1	154
155	20	1	SPARE			0.0	0.0	SPARE	20	1	156
157	20	1	SPARE	0.0	0.0		SPARE	20	1	158	
159	20	1	SPARE		0.0	0.0	SPARE	20	1	160	
161	20	1	SPARE			0.0	0.0	SPARE	20	1	162
<b>TOTAL</b>				0.0	0.0	0.0	* GFCI BREAKER				

3" = 1'-0" GRAPHIC SCALE  
 1 1/2" = 1'-0" GRAPHIC SCALE  
 1" = 1'-0" GRAPHIC SCALE  
 3/4" = 1'-0" GRAPHIC SCALE  
 1/2" = 1'-0" GRAPHIC SCALE  
 1/4" = 1'-0" GRAPHIC SCALE

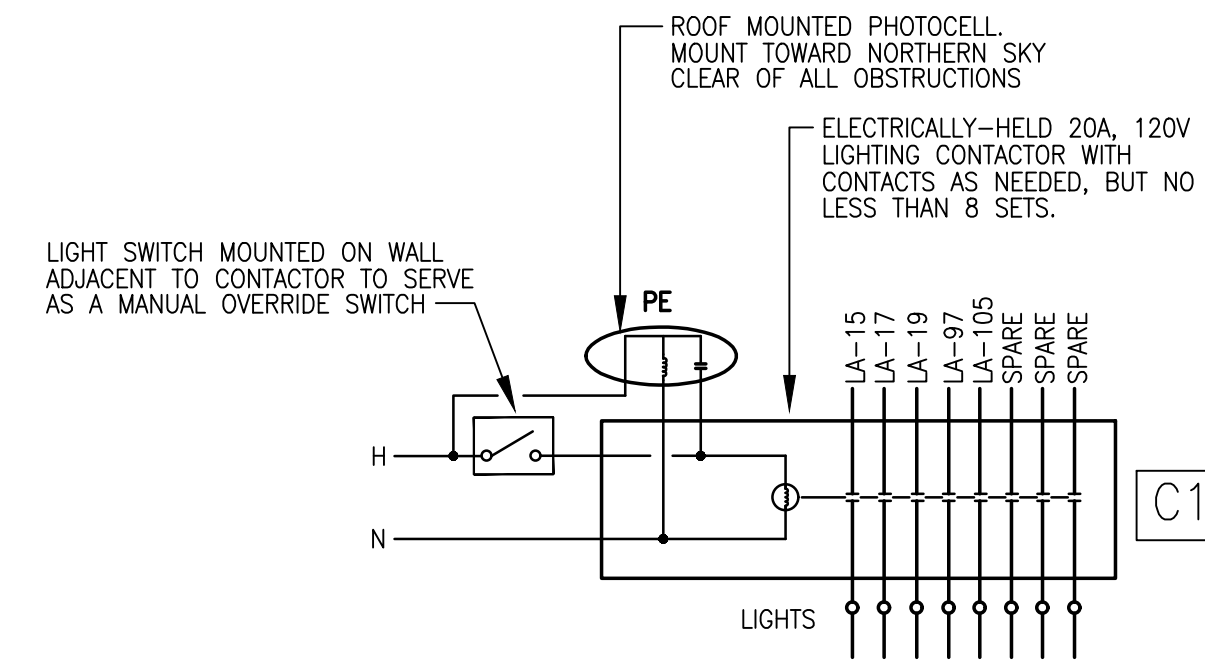
PANEL LB			LOCATION: I.T. / COMM 128		LUG LOCATION: BOTTOM FEED 100A MAIN BREAKER			PANELBOARD AIC RATING (A): 22,000		
VOLT: 208/120V, 1Ø, 3Ø			BUS: 100A		MAIN BUS MOUNTING: SURFACE			BREAKER		
CIRCUIT NO.	BREAKER	POLES	DESCRIPTION	PHASE LOAD (KVA)			DESCRIPTION	BREAKER	POLES	CIRCUIT NO.
				L1	L2					
1	20	1	REC - DISPATCH 105	1.1	0.5		REC - TOBB LT / COMM 128	20	1	2
3	20	1	REC - DISPATCH 105		1.1	0.5	REC - TOBB LT			



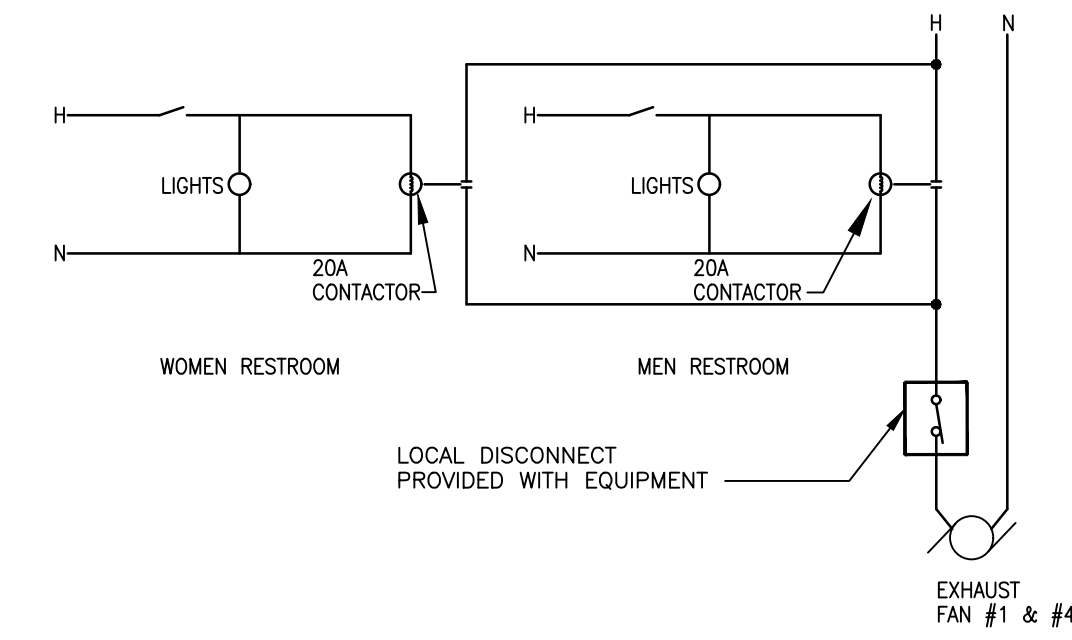
**MASTER KEYED NOTES**

Mark	Description
①	EXHAUST FAN SERVES MULTIPLE ROOMS. INTERLOCK EXHAUST FAN WITH LIGHTS. SEE DETAIL 2/E100

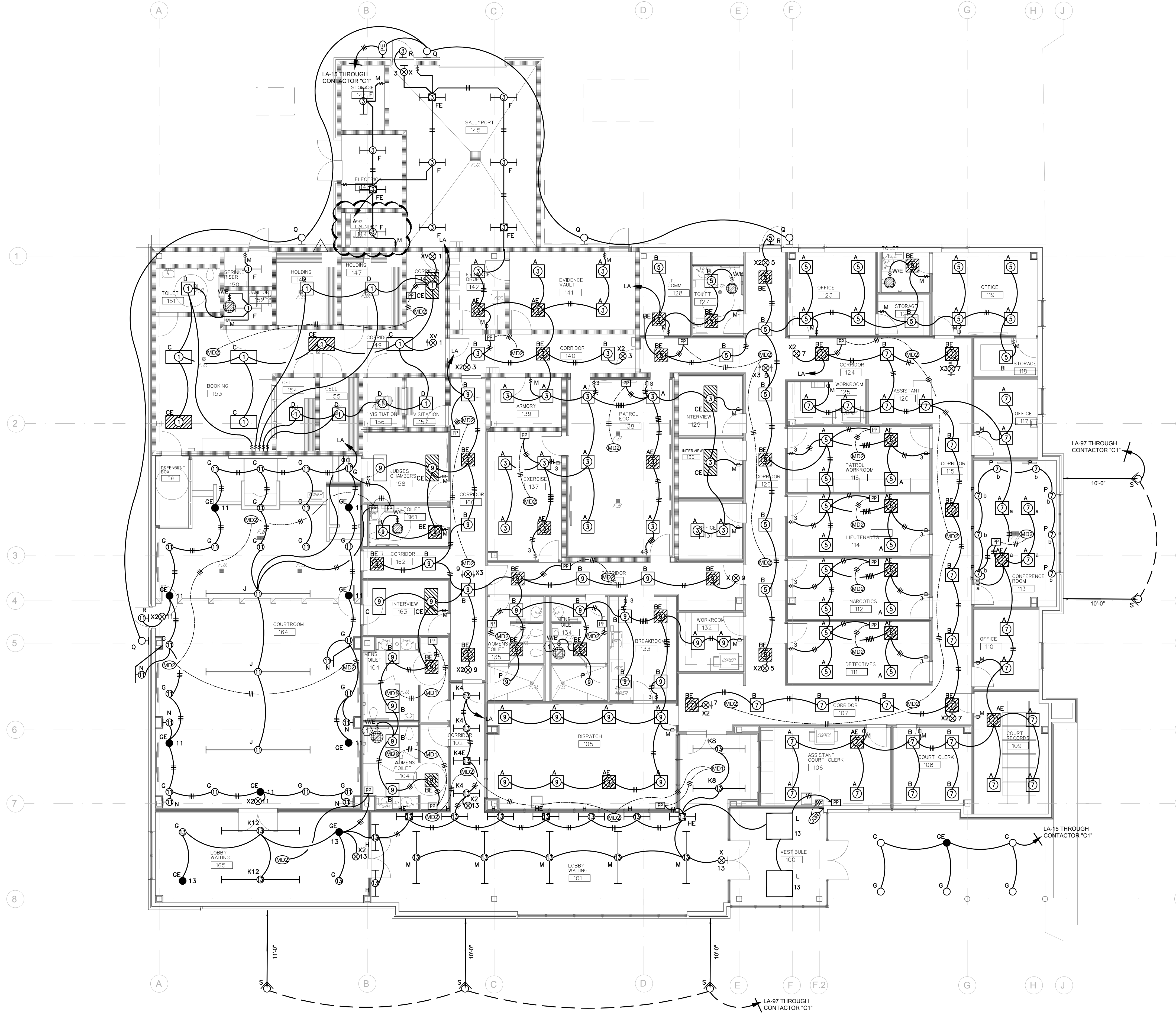
NOTE:  
IF A KEYED NOTE IS NOT SHOWN ON A DRAWING, THEN THE KEYED NOTE SHALL BE IGNORED FOR THAT PARTICULAR DRAWING. THIS SHALL DIFFER FROM DRAWING TO DRAWING.



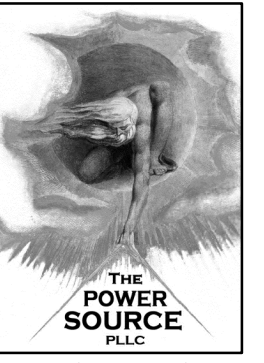
③ LIGHTING CONTACTOR DETAIL  
Scale: NONE



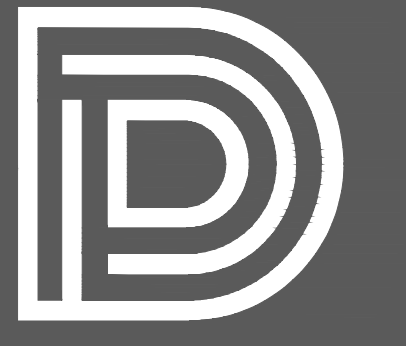
① EXHAUST FAN DETAIL  
Scale: NONE



① LIGHTING PLAN  
Scale: 1/8" = 1'-0"

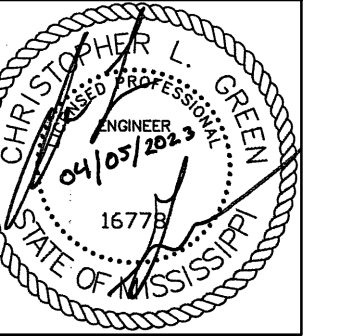


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CONSTRUCTION  
DOCUMENTS

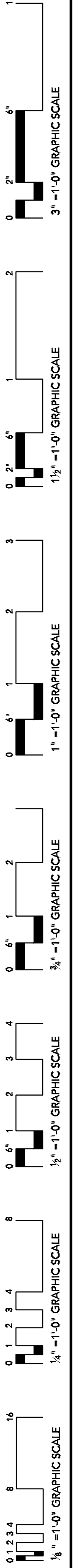
Project No. : 22093  
Date: APRIL 5, 2023  
Drawn: HBS, CTB  
Checked: CLG  
Revisions: APRIL 17, 2023

CITY OF GLUCKSTADT  
POLICE STATION AND MUNICIPAL COURT  
GLUCKSTADT, MS

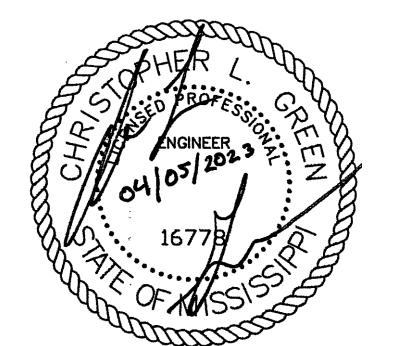
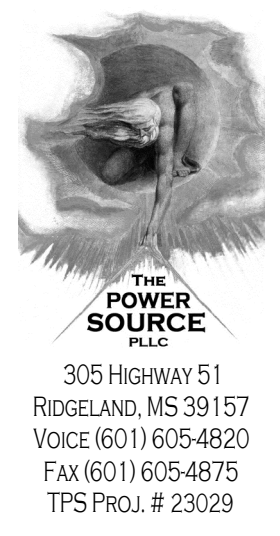
Sheet Number:

E100

LIGHTING PLAN



GLUCKSTADT POLICE STATION  
DRAWN: HBS, CTB  
22093



Mark	Description
①	1" C. TO AV RACK.
②	THREE 1" C. TO AV RACK.
③	SEE DETAIL 2/E200.

- 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16
- 3" = 1'-0" GRAPHIC SCALE
- 1 1/2" = 1'-0" GRAPHIC SCALE
- 1" = 1'-0" GRAPHIC SCALE
- 3/4" = 1'-0" GRAPHIC SCALE
- 1/2" = 1'-0" GRAPHIC SCALE
- 1/4" = 1'-0" GRAPHIC SCALE
- 1/8" = 1'-0" GRAPHIC SCALE

