

ADDENDUM NO. 3

DETENTION ANNEX RENOVATION

WAKE COUNTY  
RALEIGH, NORTH CAROLINA

Architect's Project Number: 642088

Prepared by

MOSELEY INC.  
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***DATE OF ISSUE – NOVEMBER 13, 2025***





**DETENTION ANNEX RENOVATION  
WAKE COUNTY, NC**

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42 SHEET A2.2  
43 REPLACE with attached

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45 SHEET A2.3  
46 REPLACE with attached

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48 SHEET A3.2.1  
49 REPLACE with attached

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**DETENTION ANNEX RENOVATION  
WAKE COUNTY, NC**

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**END OF ADDENDUM NO. 03**



# PRE-BID CONFERENCE SIGN IN SHEET

PROJECT: Wake County Detention Annex Renovation  
Wake County, NC  
Raleigh, NC

ARCHITECT'S PROJECT NO.: 642088

DATE AND LOCATION: 2:00pm; 11/5/2025; 3400 Hammond Road, Raleigh

Please Print Legibly

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# PRE-BID CONFERENCE SIGN IN SHEET

PROJECT: Wake County Detention Annex Renovation  
Wake County, NC  
Raleigh, NC

ARCHITECT'S PROJECT NO.: 642088

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*Please Print Legibly*

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**SECTION 011000**  
**SUMMARY (\*AD-03)**

**PART 1 GENERAL**

**1.01 PROJECT**

- A. Project Name: Detention Annex Renovation.
- B. Owner's Name: Wake County, North Carolina.
- C. Architect's Name: Moseley Architects of Charlotte, NC.

**1.02 CONTRACT DESCRIPTION**

- A. Contract Type: A single prime contract based on a Stipulated Price (Fixed Sum) as described in the Bidding and Contractual Requirements (Division 00) included in this Project Manual.

**1.03 PROFESSIONAL SEALS**

- A. Use of Professional Seals on Bidding, Procurement, and Contract Documents: For the purposes of this paragraph, the term "Regulant" refers to the individual who signs and seals parts of the Contract Documents (e.g. the Drawings and Specifications). Certain information has been excerpted verbatim from a source or sources (e.g., UL assemblies, SMACNA details, applicable state/jurisdiction building code) which was considered or used by Regulant in preparing parts of the Contract Documents, as follows:
  - 1. The excerpted information was neither prepared under the direct control nor personal supervision nor created by the Regulant, as it was prepared by the source and owner of the excerpted information.
  - 2. For purposes of bidding, procuring, and performance of the Work, and in any event of conflicts or ambiguities between the excerpted information in the Contract Documents and the requirements of applicable codes and standards, provide the better quality or greater quantity of Work which, at a minimum, complies with the requirements of the applicable codes and standards.
  - 3. Advise Architect immediately upon becoming aware of requirements of the Work which are not consistent with the requirements of the excerpted information.
  - 4. Attribution is acknowledged for information obtained and included herein verbatim from other source or sources.
  - 5. Regulant has taken into consideration and used certain excerpted information from other sources which are applicable to the Contract Documents, and the Regulant indicates by its seal that it is assuming responsibility for its services in use and application of the excerpted information to the requirements of Work, but not for the excerpted information itself which was prepared by others. Regulant does not indicate by its seal that it is responsible for use or application of other information in such source or sources which was not included herein.

**1.04 OWNER OCCUPANCY**

- A. Owner intends to occupy the Project upon Substantial Completion.
- B. Cooperate with Owner to minimize conflict and to facilitate Owner's operations.
- C. Schedule the Work to accommodate Owner occupancy.
  - 1. Maintain routes of egress and life safety systems for Owner and occupants at all times.

### 1.05 CONTRACTOR USE OF SITE AND PREMISES

- A. Construction Operations: Limited to areas noted on Drawings.
  - 1. Locate and conduct construction activities in ways that will limit disturbance to site.
- B. Provide access to and from site as required by law and by Owner:
  - 1. Emergency Building Exits During Construction: Keep all exits required by code open during construction period; provide temporary exit signs if exit routes are temporarily altered.
  - 2. Do not obstruct roadways, sidewalks, or other public ways without permit.
- C. ~~Existing building spaces may not be used for storage. (\*AD-03)~~
- D. Existing building spaces may be used for storage. (\*AD-03)
- E. Existing building shall be maintained weathertight. Do not modify elements of the existing building except as indicated on the Construction Documents. Repair damage to the existing building due to construction activity.
- F. Time Restrictions:
  - 1. Comply with local regulations for hours of work, noise ordinances, and similar requirements.
- G. Utility Outages and Shutdown:
  - 1. Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions and then only after providing temporary utility services according to requirements indicated. (\*AD-03)
  - 2. Limit disruption of utility services to hours the building is unoccupied.
  - 3. Do not disrupt or shut down life safety systems, including but not limited to fire sprinklers and fire alarm system, without 7 days notice to Owner and authorities having jurisdiction.
  - 4. Prevent accidental disruption of utility services to other facilities.
- H. ~~Controlled Substances: The use of alcohol and drugs is not permitted on the Project site. Provide a designated outdoor smoking area for construction personnel that is at least 30 feet away from the building. (\*AD-03)~~
- I. Controlled Substances: (\*AD-03)
  - 1. Smoking is not permitted on Wake County property. (\*AD-03)
  - 2. Use of tobacco products and other controlled substances is not permitted. (\*AD-03)

### 1.06 SPECIFICATION SECTIONS APPLICABLE TO ALL WORK

- A. The provisions of the Owner/Contractor agreement, General Conditions of the Contract, Supplementary Conditions (if any), and all Division 01 sections shall apply to all sections of the Project Manual.

### 1.07 SECURITY PROVISIONS (\*AD-03)

- A. ~~Background Check: The Owner requires that a background check be performed on all personnel working on the site. Comply with Owner's requirements for screening service to be used. Maintain a list of all accredited persons, submit a copy to Owner on request.~~
- B. ~~Identification Badges: Provide identification badges to each person authorized to enter premises. Badge shall include personal photograph, name, employer, expiration date, and an assigned number. Have personnel return badges to Contractor after completion of their portion of the Work.~~

**1.08 MISCELLANEOUS PROVISIONS (\*AD-03)**

- A. Employee Identification: All construction personnel will be expected to go through a background check with the Wake County Sherriff's Office at no cost to the Contractor. Photo ID badges will be issued for everyone approved by the background check process to work at the jobsite. Photo ID badges are expected to be worn by all construction personnel at all times on the jobsite. (\*AD-03)
- B. Building Access: Building access will be through a double-padlocked chain on the front gate, and with card reader permission using Photo ID badge (provided by Owner). (\*AD-03)
- C. Use of Site: Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated. (\*AD-03)
  - 1. Driveways, Walkways, and Entrances: Keep driveways and entrances serving premises clear and available to Owner, Owner's employees, and emergency vehicles at all times. Do not use these areas for parking or storage of materials. (\*AD-03)
  - 2. Schedule deliveries to minimize use of driveways and entrances by construction operations. (\*AD-03)
  - 3. Owner has a fenced area in the front parking lot for vehicle evidence storage. Access to and use of this space by the Owner will need to be maintained during the construction of this project. (\*AD-03)
  - 4. Maintain Owner's access and use of the existing morgue containers located on the loading dock at all times during construction of this project. Utility connection to these containers must be maintained at all times, with only minimal interruption allowed with Owner approval (no more than a few hours). (\*AD-03)

**PART 2 PRODUCTS - NOT USED**

**PART 3 EXECUTION - NOT USED**

**END OF SECTION 011000**



**SECTION 051200 - STRUCTURAL STEEL FRAMING (\*AD-03)**

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section Includes:
  - 1. Structural steel.
  - 2. Grout.
- B. Related Requirements:
  - 1. Section 055000 "Metal Fabrications" miscellaneous steel fabrications and other steel items not defined as structural steel.

1.3 DEFINITIONS

- A. Structural Steel: Elements of the structural frame indicated on Drawings and as described in AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."

1.4 COORDINATION

- A. Coordinate selection of shop primers with topcoats to be applied over them. Comply with paint and coating manufacturers' written recommendations to ensure that shop primers and topcoats are compatible with one another.
- B. Coordinate installation of anchorage items to be embedded in or attached to other construction without delaying the Work. Provide setting diagrams, sheet metal templates, instructions, and directions for installation.

1.5 PREINSTALLATION MEETINGS

- A. Preinstallation Conference: Conduct conference at the Project site..

1.6 ACTION SUBMITTALS

- A. Product Data: For each type of product.
- B. Shop Drawings: Show fabrication of structural-steel components.
  - 1. Include details of cuts, connections, splices, camber, holes, and other pertinent data.
  - 2. Include embedment Drawings.
  - 3. Indicate welds by standard AWS symbols, distinguishing between shop and field welds, and show size, length, and type of each weld. Show backing bars that are to be removed and supplemental fillet welds where backing bars are to remain.
  - 4. Indicate type, size, and length of bolts, distinguishing between shop and field bolts. Identify pretensioned and slip-critical, high-strength bolted connections.
  - 5. Identify members and connections of the Lateral-Force-Resisting System.

- C. Delegated-Design Submittal: For structural-steel connections indicated to comply with design loads, include analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

#### 1.7 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer and fabricator.
- B. Welding certificates.
- C. Paint Compatibility Certificates: From manufacturers of topcoats applied over shop primers, certifying that shop primers are compatible with topcoats.
- D. Mill test reports for structural steel, including chemical and physical properties.
- E. Product Test Reports: For the following:
  - 1. Bolts, nuts, and washers including mechanical properties and chemical analysis.
  - 2. Direct-tension indicators.
  - 3. Tension-control, high-strength, bolt-nut-washer assemblies.
  - 4. Shop primers.
  - 5. Non-shrink grout.
- F. Source quality-control reports.
- G. Field quality-control and special inspection reports.

#### 1.8 QUALITY ASSURANCE

- A. **Fabricator Qualifications: ~~A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD, or is accredited by the IAS Fabricator Inspection Program for Structural Steel (AC 172).~~**
  - 1. **A qualified fabricator that participates in the AISC Quality Certification Program and is designated an AISC-Certified Plant, Category STD, or is accredited by the IAS Fabricator Inspection Program for Structural Steel (AC 172), or**
  - 2. **Contractor shall hire an independent inspector (not the Chapter 1 nor the Chapter 17 Special Inspector) to perform shop tests and inspections as described in Article 2.10 "SOURCE QUALITY CONTROL" of this Specification Section. (\*AD-03 11/13/2025)**
- B. Installer Qualifications: A qualified installer who participates in the AISC Quality Certification Program and is designated an AISC-Certified Erector.
- C. Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M, "Structural Welding Code - Steel."
- D. Comply with applicable provisions of the following specifications and documents:
  - 1. AISC 303.
  - 2. AISC 360.
  - 3. RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."

1.9 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep steel members off ground and spaced by using pallets, dunnage, or other supports and spacers. Protect steel members and packaged materials from corrosion and deterioration.
  - 1. Do not store materials on structure in a manner that might cause distortion, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.
- B. Store fasteners in a protected place in sealed containers with manufacturer's labels intact.
  - 1. Fasteners may be repackaged provided Owner's testing and inspecting agency observes repackaging and seals containers.
  - 2. Clean and relubricate bolts and nuts that become dry or rusty before use.
  - 3. Comply with manufacturers' written recommendations for cleaning and lubricating ASTM F 1852 fasteners and for retesting fasteners after lubrication.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Connections: Provide details of simple shear connections required by the Contract Documents to be selected or completed by structural-steel fabricator, including comprehensive engineering analysis by a qualified professional engineer, to withstand loads indicated and comply with other information and restrictions indicated.
  - 1. Select and complete connections using schematic details indicated and AISC 360.
  - 2. Use Allowable Stress Design; data are given at service-load level.
- B. Moment Connections: Type FR, fully restrained.
- C. Construction: Moment frame.
- D. Recycled Content: Provide products with a minimum post-consumer recycled content of 75%.

2.2 STRUCTURAL-STEEL MATERIALS

- A. W-Shapes: As indicated.
- B. Channels, Angles-Shapes: As indicated.
- C. Plate and Bar: As indicated.
- D. Cold-Formed Hollow Structural Sections: As indicated.
- E. Steel Pipe: As indicated.
  - 1. Weight Class: as indicated.
- F. Welding Electrodes: Comply with AWS requirements.

2.3 BOLTS, CONNECTORS, AND ANCHORS

- A. High-Strength Bolts, Nuts, and Washers: ASTM F 3125 Grade A325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade C, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers; all with plain finish.

1. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with plain finish.
  - B. High-Strength Bolts, Nuts, and Washers: ASTM F 3125 Grade A490, Type 1, heavy-hex steel structural bolts or tension-control, bolt-nut-washer assemblies with splined ends; ASTM A 563, Grade DH, heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers with plain finish.
    1. Direct-Tension Indicators: ASTM F 959, Type 490, compressible-washer type with plain finish.
  - C. Zinc-Coated High-Strength Bolts, Nuts, and Washers: ASTM A 325, Type 1, heavy-hex steel structural bolts; ASTM A 563, Grade DH heavy-hex carbon-steel nuts; and ASTM F 436, Type 1, hardened carbon-steel washers.
    1. Finish: Hot-dip zinc coating.
    2. Direct-Tension Indicators: ASTM F 959, Type 325, compressible-washer type with mechanically deposited zinc coating finish.
  - D. Tension-Control, High-Strength Bolt-Nut-Washer Assemblies: ASTM F 3125 Grade F1852 or Grade F2280, Type 1, round head assemblies consisting of steel structural bolts with splined ends, heavy-hex carbon-steel nuts, and hardened carbon-steel washers.
    1. Finish: Plain.
  - E. Unheaded Anchor Rods: ASTM F 1554, Grade 36
    1. Configuration: Straight.
    2. Nuts: ASTM A 563 heavy-hex carbon steel.
    3. Plate Washers: ASTM A 36/A 36M carbon steel.
    4. Washers: ASTM F 436, Type 1, hardened carbon steel.
    5. Finish: Plain.
  - F. Headed Anchor Rods: ASTM F 1554, Grade 36, straight.
    1. Nuts: ASTM A 563 heavy-hex carbon steel.
    2. Plate Washers: ASTM A 36/A 36M carbon steel.
    3. Washers: ASTM F 436, Type 1, hardened carbon steel.
    4. Finish: Plain.
  - G. Threaded Rods: ASTM A 36/A 36M.
    1. Nuts: ASTM A 563 heavy-hex carbon steel.
    2. Washers: ASTM F 436, Type 1, hardened carbon steel.
    3. Finish: Plain.
  - H. Clevises: Made from cold-finished carbon steel bars, ASTM A 108, Grade 1035.
  - I. Eye Bolts and Nuts: Made from cold-finished carbon steel bars, ASTM A 108, Grade 1030.
  - J. Sleeve Nuts: Made from cold-finished carbon steel bars, ASTM A 108, Grade 1018.
- 2.4 PRIMER
- A. Low-Emitting Materials: Paints and coatings shall comply with the testing and product requirements of the California Department of Public Health's (formerly, the California

Department of Health Services') "Standard Method for the Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers."

- B. Primer: Comply with Division 9.
- C. Primer: Fabricator's standard lead- and chromate-free, nonasphaltic, rust-inhibiting primer complying with MPI#79 and compatible with topcoat.
- D. Galvanizing Repair Paint: ASTM A 780/A 780M.

## 2.5 GROUT

- A. Nonmetallic, Shrinkage-Resistant Grout: ASTM C 1107/C 1107M, factory-packaged, nonmetallic aggregate grout, noncorrosive and nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

## 2.6 FABRICATION

- A. Structural Steel: Fabricate and assemble in shop to greatest extent possible. Fabricate according to AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," and to AISC 360.
  - 1. Camber structural-steel members where indicated.
  - 2. Fabricate beams with rolling camber up.
  - 3. Identify high-strength structural steel according to ASTM A 6/A 6M and maintain markings until structural steel has been erected.
  - 4. Mark and match-mark materials for field assembly.
  - 5. Complete structural-steel assemblies, including welding of units, before starting shop-priming operations.
- B. Thermal Cutting: Perform thermal cutting by machine to greatest extent possible.
  - 1. Plane thermally cut edges to be welded to comply with requirements in AWS D1.1/D1.1M.
- C. Bolt Holes: Cut, drill or punch standard bolt holes perpendicular to metal surfaces.
- D. Finishing: Accurately finish ends of columns and other members transmitting bearing loads.
- E. Cleaning: Clean and prepare steel surfaces that are to remain unpainted according to SSPC-SP 2, "Hand Tool Cleaning."
- F. Headed Rods: Prepare steel surfaces as recommended by manufacturer of headed rods. Use automatic end welding of headed-stud rods according to AWS D1.1/D1.1M and manufacturer's written instructions.
- G. Holes: Provide holes required for securing other work to structural steel and for other work to pass through steel members.
  - 1. Cut, drill, or punch holes perpendicular to steel surfaces. Do not thermally cut bolt holes or enlarge holes by burning.
  - 2. Baseplate Holes: Cut, drill, mechanically thermal cut, or punch holes perpendicular to steel surfaces.
  - 3. Weld threaded nuts to framing and other specialty items indicated to receive other work.

## 2.7 SHOP CONNECTIONS

- A. High-Strength Bolts: Shop install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
  - 1. Joint Type: as indicated.
- B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
  - 1. Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in AISC 303 for mill material.

## 2.8 SHOP PRIMING

- A. Shop prime steel surfaces except the following:
  - 1. Surfaces embedded in concrete or mortar. Extend priming of partially embedded members to a depth of 2 inches.
  - 2. Surfaces to be field welded.
  - 3. Surfaces of high-strength bolted, slip-critical connections.
  - 4. Surfaces to receive sprayed fire-resistive materials (applied fireproofing).
  - 5. Galvanized surfaces.
- B. Surface Preparation: Clean surfaces to be painted. Remove loose rust and mill scale and spatter, slag, or flux deposits. Prepare surfaces according to the following specifications and standards:
  - 1. For Concealed Steel:
    - a. SSPC-SP 2, "Hand Tool Cleaning."
    - b. SSPC-SP 3, "Power Tool Cleaning."
  - 2. For Exposed Steel:
    - a. SSPC-SP 6/NACE No. 3, "Commercial Blast Cleaning."
- C. Priming: Immediately after surface preparation, apply primer according to manufacturer's written instructions and at rate recommended by SSPC to provide a minimum dry film thickness of 1.5 mils. Use priming methods that result in full coverage of joints, corners, edges, and exposed surfaces.
  - 1. Stripe paint corners, crevices, bolts, welds, and sharp edges.
  - 2. Apply two coats of shop paint to surfaces that are inaccessible after assembly or erection. Change color of second coat to distinguish it from first.
- D. Painting: Prepare steel and apply a one-coat, nonasphaltic primer complying with SSPC-PS Guide 7.00, "Painting System Guide 7.00: Guide for Selecting One-Coat Shop Painting Systems," to provide a dry film thickness of not less than 1.5 mils (0.038 mm).

## 2.9 GALVANIZING

- A. Hot-Dip Galvanized Finish: Apply zinc coating by the hot-dip process to structural steel according to ASTM A 123/A 123M.
  - 1. Fill vent and drain holes that are exposed in the finished Work unless they function as weep holes, by plugging with zinc solder and filing off smooth.
  - 2. Galvanize lintels and shelf angles attached to structural-steel frame and located in exterior walls.

## 2.10 SOURCE QUALITY CONTROL

- A. Testing Agency: Owner will engage a qualified testing agency to perform shop tests and inspections.
  - 1. Provide testing agency with access to places where structural-steel work is being fabricated or produced to perform tests and inspections.
- B. Bolted Connections: Inspect and test shop-bolted connections according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- C. Welded Connections: Visually inspect shop-welded connections according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
  - 1. Liquid Penetrant Inspection: ASTM E 165.
  - 2. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
  - 3. Ultrasonic Inspection: ASTM E 164.
  - 4. Radiographic Inspection: ASTM E 94.
- D. Prepare test and inspection reports.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Verify, with certified steel erector present, elevations of concrete- and masonry-bearing surfaces and locations of anchor rods, bearing plates, and other embedments for compliance with requirements.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Provide temporary shores, guys, braces, and other supports during erection to keep structural steel secure, plumb, and in alignment against temporary construction loads and loads equal in intensity to design loads. Remove temporary supports when permanent structural steel, connections, and bracing are in place unless otherwise indicated.
  - 1. Do not remove temporary shoring supporting composite deck construction until cast-in-place concrete has attained its design compressive strength.

### 3.3 ERECTION

- A. Set structural steel accurately in locations and to elevations indicated and according to AISC 303 and AISC 360.
- B. Baseplates and Bearing Plates: Clean concrete- and masonry-bearing surfaces of bond-reducing materials, and roughen surfaces prior to setting plates. Clean bottom surface of plates.
  - 1. Set plates for structural members on wedges, shims, or setting nuts as required.
  - 2. Weld plate washers to top of baseplate where indicated.
  - 3. Snug-tighten anchor rods after supported members have been positioned and plumbed. Do not remove wedges or shims but, if protruding, cut off flush with edge of plate before packing with grout.

4. Promptly pack grout solidly between bearing surfaces and plates so no voids remain. Neatly finish exposed surfaces; protect grout and allow to cure. Comply with manufacturer's written installation instructions for shrinkage-resistant grouts.
- C. Maintain erection tolerances of structural steel within AISC 303, "Code of Standard Practice for Steel Buildings and Bridges."
- D. Align and adjust various members that form part of complete frame or structure before permanently fastening. Before assembly, clean bearing surfaces and other surfaces that are in permanent contact with members. Perform necessary adjustments to compensate for discrepancies in elevations and alignment.
  1. Level and plumb individual members of structure.
  2. Make allowances for difference between temperature at time of erection and mean temperature when structure is completed and in service.
- E. Splice members only where indicated.
- F. Do not use thermal cutting during erection.
- G. Do not enlarge unfair holes in members by burning or using drift pins. Ream holes that must be enlarged to admit bolts.

#### 3.4 FIELD CONNECTIONS

- A. High-Strength Bolts: Install high-strength bolts according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts" for type of bolt and type of joint specified.
  1. Joint Type: Snug tightened, unless noted otherwise.
- B. Weld Connections: Comply with AWS D1.1/D1.1M for tolerances, appearances, welding procedure specifications, weld quality, and methods used in correcting welding work.
  1. Comply with AISC 303 and AISC 360 for bearing, alignment, adequacy of temporary connections, and removal of paint on surfaces adjacent to field welds.
  2. Remove backing bars or runoff tabs, back gouge, and grind steel smooth.
  3. Assemble and weld built-up sections by methods that maintain true alignment of axes without exceeding tolerances in AISC 303, "Code of Standard Practice for Steel Buildings and Bridges," for mill material.

#### 3.5 FIELD QUALITY CONTROL

- A. Special Inspections: Owner will engage a qualified special inspector to perform the following special inspections:
  1. Verify structural-steel materials and inspect steel frame joint details.
  2. Verify weld materials and inspect welds.
  3. Verify connection materials and inspect high-strength bolted connections.
- B. Testing Agency: Owner will engage a qualified testing agency to perform tests and inspections.
- C. Bolted Connections: Inspect and test bolted connections according to RCSC's "Specification for Structural Joints Using ASTM A 325 or A 490 Bolts."
- D. Welded Connections: Visually inspect field welds according to AWS D1.1/D1.1M.

1. In addition to visual inspection, test and inspect field welds according to AWS D1.1/D1.1M and the following inspection procedures, at testing agency's option:
  - a. Liquid Penetrant Inspection: ASTM E 165.
  - b. Magnetic Particle Inspection: ASTM E 709; performed on root pass and on finished weld. Cracks or zones of incomplete fusion or penetration are not accepted.
  - c. Ultrasonic Inspection: ASTM E 164.
  - d. Radiographic Inspection: ASTM E 94.

### 3.6 REPAIRS AND PROTECTION

- A. Galvanized Surfaces: Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780/A 780M.
- B. Touchup Painting: Immediately after erection, clean exposed areas where primer is damaged or missing and paint with the same material as used for shop painting to comply with SSPC-PA 1 for touching up shop-painted surfaces.
  1. Clean and prepare surfaces by SSPC-SP 2 hand-tool cleaning or SSPC-SP 3 power-tool cleaning.
- C. Touchup Painting: Cleaning and touchup painting are specified in Section 099113 "Exterior Painting" and Section 099123 "Interior Painting."
- D. Touchup Priming: Cleaning and touchup priming are specified in Section 099600 "High-Performance Coatings."

END OF SECTION 051200



## SECTION 111900 - DETENTION EQUIPMENT

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

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

#### 1.2 SUMMARY

A. Detention Equipment Contractor (DEC):

1. Provide the Detention Equipment indicated on the Drawings, in schedules, and as specified in this section.
2. Types of Detention Equipment:
  - a. Detention Mirror, Single & Double
  - b. Detention Swing Stool, wall-mounted
  - c. Recessed Toilet Paper Roll Holder
  - d. Detention Grab Bars, Anti-Ligature
  - e. Detention Shower Grab Bars, Anti-Ligature
  - f. Wall Embed Plates for detention grab bars
  - g. Detention Folding Shower Seat
  - h. Safety Shower/Clothes Hook
  - i. Detention Stool, floor-mounted (\*AD-03)
  - j. Detention 4-Man Table, standard & accessible (\*AD-03)
  - k. Single Floor Mounted Bunk (\*AD-03)
3. Refer Division 22 Section "Security Plumbing Fixtures" for detention equipment provided in and/or as part of the construction of cabinet showers, including, but not limited to, wall-mounted grab bars and stainless-steel shower seats.
4. Furnish to the General Contractor, for installation, all embedded anchors for Detention Equipment.
5. Coordinate installation of the embedded items and the actual detention equipment with the appropriate Contractors.
6. Coordinate with the Security Control System Contractor (SCSC), as described in Section 285000.

B. General Contractor:

1. Install embedded anchors for Detention Equipment in accordance with manufacturer's and detention equipment subcontractor's shop drawings.
2. Coordinate installation of embedded items with the DEC.

#### 1.3 QUALITY ASSURANCE

- A. The Detention Equipment Contractor (DEC) shall provide all detention equipment, shop drawing submittals, testing reports, and samples as described in Specification Sections 111900, 111910, 111950, and 111960. The DEC shall coordinate the work of all these specification sections with his various equipment manufacturers, fabricators, installers, and, also, with work by others. Questions on the Detention Work shall be directed to the DEC before being directed to the General Contractor, Architect, or Owner.

B. Available Detention Equipment Contractors (DEC):

- |  |   |
|--|---|
| 1. Cornerstone Detention<br>Decatur, AL 35601                              | 2. Montgomery Technology Systems<br>Greenville, AL 36037 & San Antonio,<br>TX 78219 |
| 3. Pauly Jail Building Company<br>Noblesville, IN 46062                    | 4. CML Security, LLC<br>Broomfield, CO 80023  |
| 5. Noah Detention Construction, LLC<br>Niceville, Florida 32578            | 6. <b>Southern Folger Contracting</b><br><b>Newcastle, CA 95658 (*AD-02)</b>        |
| 7. <b>U.S. Security Systems, Inc.</b><br><b>Opelika, AL 36801 (*AD-03)</b> |   |

1.4 DETENTION EQUIPMENT CONTRACTOR'S (DEC) QUALIFICATIONS

- A. It is critical that the Detention Equipment meets the requirements of the Contract Documents and that the equipment and/or systems be properly installed and functioning correctly by the Time of Completion specified.
- B. A specialty DEC is required for this project. Refer to Sections 111900, 111910, 111950, and 111960 for scope of work.
- C. It is not, however, the intent of the Owner or Architect to unfairly restrict competition. Other equally competent DEC's who meet the 'qualification criteria' specified herein shall be added to the list of 'Available Detention Equipment Contractors (DEC)' by addendum.
- D. All competent non-listed DEC's may request to be listed by submitting the data requested in the Qualification Criteria, a minimum of fifteen (15) days prior to bid receipt date.
- E. All other competent DEC's will be listed in an addendum. Verbal approval will not satisfy this requirement. Grounds for disqualification shall exist if, in the opinion of the Architect, the information submitted is inaccurate or does not comply with the requirements of this specification. There will be no exceptions.
- F. QUALIFICATION CRITERIA FOR THE DEC: It is critical that the Detention Equipment meets the requirements of the Contract Documents and that the equipment and systems be properly installed and functioning correctly by the Time for Completion specified for the project. Therefore, the DEC must meet the following qualification criteria:
1. Perform at least 50 percent of the Work (on-site installation) with its employees. Submit payroll record of executing project installation labor with a minimum of 50 percent of labor performed by direct employees of the DEC Company.
  2. Provide a narrative of the history of the company from inception; including history of ownership, partnership, incorporation and/or other organizational information. Include information on the growth of the firm over time to include number of employees, relocation(s) of the firm, major production equipment purchases and replacements. Use only the current corporate/business entity, intending on bidding and performing the work.
  3. Provide a statement that the firm has been in business under its current name for minimum of ten (10) continuous years.
  4. Provide a list of all employees in supervisory positions stating their area of responsibility and their years of experience in that position.
    - a. Number of years as a full-time employee of the DEC
    - b. Number of years of jail experience
    - c. Completed training program for iron workers (if involved in equipment installation)

5. Submit a complete list of all projects completed under the DEC's current name. Specifically highlighting projects completed in NC, SC and VA, including:
  - a. Project Name, Owner, Contact Name, Address, and Phone Number
  - b. Architect/Engineer of Record Name, Address, and Phone Number
  - c. General Contractor or Construction Manager Name, Address, and Phone Number
  - d. Total Amount of the DEC's Contract and Completion Date
6. Submit a listing of all jobs in which the DEC is presently and has been involved in litigation and the status thereof.
7. Provide a list of all jobs that your firm has been involved in liquidated damages or delay damages were filed against your firm.
8. Submit a letter of intent to test each detention door as described in Section 111910.
9. Submit for approval the name of the detention equipment manufacturers you intend to purchase from. Submit a current letter from the detention hardware manufacturer stating that the DEC is factory trained, fully authorized distributor and installer of their complete line of products.
10. Provide signed statement that DEC has not been found guilty of charges relating to conflicts of interest or to any criminal activity relating to construction methods, bidding, bid rigging, or bribery in the past five years.
11. Provide signed statement that DEC has not been found guilty of charges relating to employment of illegal aliens on construction projects in the last five (5) years.
12. Provide a letter from 'A' rated surety company that your company will be able to provide a 100 percent Performance/Payment bond for this project if awarded the project, but not less than \$3 million dollars.
13. Provide a financial statement for the most recent fiscal year.

#### 1.5 ACTION SUBMITTALS

- A. A shop drawing submittal review meeting shall be held and coordinated by the General Contractor within two weeks after submittal. All participants should have at least two (2) weeks' worth of review of this first Shop Drawing submittal and be prepared to comment on its appropriateness for their assigned job efforts. The meeting shall last no longer than three (3) eight-hour days. A qualified representative from each of the following entities shall be present at the meeting:
  1. Owner
  2. Architect
  3. General Contractor
  4. Detention Equipment Contractor
  5. Security Control System Contractor
  6. Security Hollow Metal Manufacturer
  7. Security Glazing Manufacturer
  8. Sliding Door Manufacturer
  9. Security Hardware Manufacturer
  10. Architectural Hardware Subcontractor
  11. Electrical Contractor
- B. Failure to follow submittal criteria will constitute submittals being non-compliant and will be reviewed as "Rejected/Resubmit". The DEC must submit the indicated and necessary shop drawing criteria for each individual specification section as an entire section and for each subsequent re-submittal.

- C. Required submittal packages shall be submitted as a complete package for each Division 11 specification section. Failure to do so will result in the submittal being “Rejected” and returned.
- D. Manufacturer’s Data
  - 1. Submit one (1) reproducible (digital format) copy of manufacturer’s product specifications and installation instructions for each type of Detention Equipment.
  - 2. Provide product data for shop primer [and factory-applied finish(es)].
- E. Product Schedule: For detention equipment. Indicate types, quantities, sizes, and installation locations by room of each accessory required. Use same designations indicated on Drawings.
- F. Shop Drawings
  - 1. Submit one (1) reproducible (digital format) copy of all proposed and/or specified detention equipment.
  - 2. Include plan and elevation layouts, construction details, embed plate locations and details, material descriptions, fastener and anchorage details, inserts, dimensions of individual components, and finishes.
- G. Samples
  - 1. Submit (upon the Owner’s or Architect’s request) one (1) each sample of any or all proposed and/or specified detention equipment items, to the Owner for his review and final approval. Coordinate with the Owner’s representative as to whom and where these samples are to be delivered.
- H. Samples for Initial Selection: Manufacturer’s color charts showing the full range of colors available for factory-applied color finishes for detention equipment and furniture.
  - 1. Color selections will be made according to Section 013300.

1.6 PRODUCT HANDLING

- A. Protect units and finishes from damage during shipping, storage, handling, installation, and construction of other work in the same area.
- B. Wrap, crate, and label each item for protection from damage. Deliver pertinent items to be built-in to the General Contractor or trades in accordance with the construction progress schedule to prevent any delay.
- C. Keys shall be sent directly to the person and address as directed by the Owner, via direct mail with restricted delivery and return receipt requested.

1.7 GUARANTEE

- A. Upon final completion, the Manufacturer/Installer shall provide a written warranty covering detention equipment against defective materials and workmanship and guaranteeing satisfactory operation and performance for a period of one (1) year after Substantial Completion. The Manufacturer/Installer shall make necessary adjustments and replace any defective or broken parts caused by defective mechanical parts.

PART 2 - PRODUCTS

2.1 DETENTION EQUIPMENT

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include the following:

1. Southern Folger Detention Equipment Co.; San Antonio, TX
2. Modern Detention Equipment; Cincinnati, OH
3. Willo Products Co.; Decatur, AL
4. JAILS Correctional Products; Minster, OH
5. Viking Products; Orange, CA
6. Bob Barker Company, Inc.; Fuquay-Varina, NC
7. Majestic Solutions, Inc.; Madison, AL
8. Trussbilt; Vadnais Heights, MN
9. Northwest Specialty Hardware, Inc. Clackamas, OR
10. **Claborn Manufacturing; Montgomery, AL 36109 (\*AD-02)**

B. Individual Detention Equipment Items:

1. **Detention Mirror, Single & Double:** with Embedded Back Plate
  - a. Acceptable Manufacturer:
    - 1) SS No. 432/Southern Folger Detention Equip Co.
  - b. Construction:
    - 1) Mirrors:
      - a) Mirror frame shall be 11-1/4 inches by 17-1/4 inches, fabricated from 16 gauge cold finished steel, with 5/16 inch inner and outer flanges and having a tensile strength of not less than 53,000 pounds per square inch. Frame to have natural finish, chromium plated.
      - b) Mirror opening shall be 10 inches by 14 inches, made of 0.031 inch sheet steel, polished to a high degree of reflectivity, and chromium plated.
      - c) Include eight (8) chromium plated, security type, flat head machine screws, 1/4 inch diameter of proper length for use in backer plate.
    - 2) Embed Back Plates:
      - a) Provide steel embed plates and 11 gauge anchor tabs as detailed and/or required by the mirror manufacturer (refer to details on Drawings).
2. **Detention 4-Man Table with Individual Seats, Standard and ADA: (\*AD-03)**
  - a. Construction - refer to details on Drawings:
    - 1) Provide accessible unit with only three (3) seats where indicated on drawings.
    - 2) Tabletops and seats shall be stainless steel and be smooth, true, level, and free of sharp edges. Refer to table detail for steel gauge.
    - 3) Provide checkerboard game top.
    - 4) Provide post under each seat.
    - 5) One-piece, welded assembly; all welds neatly finished.
3. **Detention Stainless Steel Floor-Mounted Stool: (\*AD-03)**
  - a. Acceptable Manufacturer:
    - 1) Floor Mounted Stool/ Viking (modified)
    - 2) MSI-FMS/ Majestic Solutions (modified)
    - 3) No. S671/Willo (modified)
    - 4) No. BB517SS / Bob Barker Co. (modified)
  - b. Construction
    - 1) Stool seat shall be 12 inches in diameter, with minimum 1-1/2 inch flange, fabricated of 16 gauge stainless steel, type 304 with No. 3 finish. The stool top shall be 1'-8" AFF.

- 2) Seat support shall be constructed of a 2-1/2 inch diameter iron pipe, welded to a steel plate 6 inches by 11 inches by 1/4 inch for seat reinforcement. Finish paint support and plate with color(s) approved during shop drawing phase.
  - 3) Provide 12 inch by 12 inch by 1/2 inch thick anchor plate, welded to pipe support.
  - 4) Provide anchorage devices and security head fasteners. Tack weld bolts.
4. **Detention Swing Stool, Wall-Mounted:**
- a. Acceptable Manufacturer
    - 1) Wall Mounted Stool / Willo
    - 2) No. BB518SS / Bob Barker Co. (modified)
    - 3) J-1-2528\_25 / Jails Correctional Products (modified)
    - 4) Wall-mounted Stool (swing) / Trussbilt (modified)
  - b. Construction:
    - 1) Stool seat shall be minimum 12 inches in diameter, with minimum 1-1/2 inch flange, fabricated of 16 gauge stainless steel, type 304 with No. 3 finish. Seat shall be attached to a minimum 1/4 inch thick steel seat reinforcement plate.
    - 2) Seat support shall be constructed of a 3/8 inch steel plate arm, welded to a 1 inch diameter steel swivel pin and to the seat reinforcement plate.
    - 3) Provide minimum 3/8 inch thick steel embed plate; seat swing arm shall be field welded to plate.
    - 4) Provide a non-removable hinge pin for locking the seat in place.
    - 5) The stool shall lock in the 90-degree position as well as in a position that allows for accessibility requirements.
      - 1) Housing: 3/4" exterior grade plywood with stainless steel on exposed surfaces providing Level 1 Bullet Resistance
      - 2) Face, hood, lid, and handle material: Stainless steel
      - 3) Lexan lid allows clear view of contents while preventing direct entry of outside air and a push button latch keeps lid locked when closed. As the drawer moves outward, the stainless steel front panel pivots upward and inward.
      - 4) Lid and front door are synchronized to open with no chance of the lid being left open when the drawer is extended. As the drawer moves outward, the stainless steel front panel pivots upward and inward. As the drawer closes, the lid returns to the slanted position, allowing the operator access to the contents.
      - 5) The drawer locks with a drop bolt located in its bottom surface.
      - 6) Handle: Stainless steel.
      - 7) Provide each compartment with snap locks, each compartment individually keyed and master-keyed.
  - b. Provide anchorage devices and security fasteners.
  - c. Size/Mounting:
    - 1) Refer to details on Drawings for mounting.
5. **Recessed Toilet Paper Roll Holder:**
- a. Acceptable Manufacturer:
    - 1) SA11/ Bradley Corporation (modified)
    - 2) RTH-1/Willoughby Industries, Inc. (modified)
    - 3) 1840/Acorn Engineering Co. (modified)
  - b. Construction (refer to details on Drawings):

- 1) Recessed holder shall be 5 inches inside diameter and 4-1/2 inches deep made of 14 gauge Type 304 Stainless Steel.
  - 2) The face trim rim shall be beveled so as to fit flush with the wall surface and have an architectural satin finish.
  - 3) Four (4) anchor angles, 1 inch by 2-1/2 inches by 1/4 inch (1 inch wide) shall be welded to the exterior walls of the recessed enclosure with the 2-1/2 inch angle leg extended.
6. **Detention Grab Bars, Anti-Ligature:**
- a. Construction (refer to details on Drawings)
7. **Detention Shower Grab Bars, Anti-Ligature:**
- a. Acceptable Manufacturer:
    - 1) 1109 Series/Acorn Engineering Co.
    - 2) US130-G / A & J Washroom Accessories
    - 3) Model SA70-059 / Bradley Corporation
  - b. Construction (Refer to details on Drawings):
    - 1) Tubing: Provide 18 gauge, type 304 stainless steel, satin finish.
    - 2) Flanges: Minimum 11 gauge stainless steel, welded to bar.
    - 3) Closure Plate: 11 gauge stainless steel welded to underside of bar.
  - c. Provide embed plate, drilled and tapped for security fasteners, with anchor straps.
  - d. Locate Grab Bars to comply with accessibility codes.
8. **Wall Embed Plates for detention grab bars:**
- a. Acceptable Manufacturer:
    - 1) (Custom fabricated)
  - b. Construction (Refer to details on Drawings):
    - 1) Embed Wall Plates shall be 1/2 inch thick Stainless Steel plates dimensioned as indicated on the drawings with embedment anchor tabs.
    - 2) Grab Bars shall be bolted to embed plates as indicated on the Drawings.
9. **Detention Folding Shower Seat:**
- a. Acceptable Manufacturer:
    - 1) No. SS2 / Viking Products.
    - 2) Model 1103-31 & 32 / Acorn Engineering Co.
  - b. Performance standards;
    - 1) Support up to 700-pound static load.
  - c. Construction:
    - 1) Provide 10 gauge, satin finish, type 304 stainless steel L-shaped seat with minimum 2" x 2" x 11 gauge channels or tubes welded to underside of seat.
    - 2) Provide minimum 1" diameter x .120 thick stainless steel tube supports and minimum 4" diameter x 3/16" stainless steel wall flanges.
    - 3) Provide 10 gauge stainless steel seat catch to hold seat in upright position against the wall.
    - 4) Provide embed plate, drilled and tapped for security fasteners, with anchor straps.
10. **Safety Shower/Clothes Hook:** (Individual Hook Assembly mounted onto a steel embed plate)
- a. Acceptable Manufacturer:
    - 1) No. 1829 / Acorn Engineering Co. (similar).
    - 2) No. B-983 / Bobrick Washroom Equipment Inc. (similar).
    - 3) Model SA36 / Bradley (similar).
    - 4) No. 407 / Southern Folger Detention Equip Co.

- b. Construction (Refer to details on Drawings):
  - 1) Provide 14 gauge, satin finish, type 304 stainless steel plate with stainless steel, ball-type collapsible hooks.
  - 2) Provide embed plate, drilled and tapped for security fasteners, with anchor straps.

**11. Detention Floor-Mounted Metal Bunk, Single: (\*AD-03)**

- a. Acceptable Manufacturer:
  - 1) W583/Willo Products Co.
- b. Construction
  - 1) Pan: 10 gauge, mild steel sheet, flanged and hemmed for stiffening.
  - 2) Legs: 10 gauge, mild steel sheet, formed and angled legs with punched 10 gauge anchoring floor foot. Weld legs to pan.
  - 3) Legs and Frames: Formed from 2-by-2-by-3/16-inch steel angle welded at connections to each other and to bunk pan; provide four legs for each bunk.
  - 4) Mounting Plates: Formed from 1/4-inch- thick, steel plate punched with one hole for floor anchorage; provide one mounting plate for each leg
  - 5) Provide minimum 3/16-inch thick steel plate divider panels where adjacent to other bunks.
  - 6) Provide powder coat finish per colors approved during shop drawing phase.
- c. Size/Mounting:
  - 1) Minimum 76" inches L by 27 inches W with bunk pan 14" inches above floor. Confirm exact size with Owner during submittal phase before ordering.
  - 2) Bolt bunk legs to the floor utilizing security head fasteners and concrete wedge anchors.
- d. Finish paint bunks per colors approved during shop drawing phase.

**2.2 DETENTION EQUIPMENT ACCESSORIES**

- A. Provide accessories, anchorage inserts and security fasteners for a complete tamperproof installation.
  - 1. Exposed Security Fasteners:
    - a. Provide Torx-head (star with center reject pin) security fasteners for anchoring work in exposed security areas.
    - b. Finish shall match that specified of the item anchored.
- B. Provide tools for fastening devices.

**PART 3 - EXECUTION**

**3.1 EXAMINATION**

- A. Examine the areas and conditions under which Detention Equipment is to be installed. Notify the Contractor in writing of conditions detrimental to the proper and timely completion of the work. Proceed with installation only after unsatisfactory conditions have corrected.

**3.2 INSTALLATION**

- A. Comply with manufacturer's printed installation instructions.
- B. Touch-up painting of factory finish or factory primed items is the installer's responsibility.

- C. Do not paint stainless steel embed plates.
- D. Identify and coordinate the 'Filling of all Voids', by the General Contractor, between all materials of Detention Equipment, embeds and/or other physical construction items. Refer to specification Section 079200 – Joint Sealants and its article on "SECURITY SEALANTS" for types of sealants to be utilized.
- E. All expenses incurred by the Architect in troubleshooting Detention Equipment Work, caused by inadequate workmanship or other form of non-performance on the part of the subcontractor, shall be borne by that subcontractor.
- F. Coordinate installed equipment supplied to other contractors.

### 3.3 PROTECTION

- A. Protect equipment and finishes until Substantial Completion.
- B. Replace damaged equipment as directed by the Architect.

### 3.4 CLEANING

- A. Clean grout, mortar, and other bonding material off detention equipment immediately after installation.
- B. Touch-up Painting: Cleaning and touch-up painting of field welds, bolted connections and abraded areas of shop paint is specified in Division 9 Section "Painting".
- C. Field finish painting of all equipment (not supplied with factory finish) in this section shall be done in accordance with Division 9 Section "Painting". All equipment shall be painted to match the color of its adjacent wall finish color, unless noted otherwise.
- D. Clean equipment thoroughly prior to Substantial Completion.

END OF SECTION 111900



SECTION 111950 - SECURITY GLASS AND GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Detention Equipment Contractor (DEC):

1. Provide security glass and glazing work as indicated.
2. Applications of security glass and glazing include the following:
  - a. Security glazing of interior and exterior doors.
  - b. Security glazing of interior and exterior hollow metal frames and miscellaneous interior security glazed frames.
  - c. Insulating security glazing in exterior openings

- B. General Contractor:

1. Coordinate efforts of security glazing with other glazing work and the installation of security hollow metal work.

1.3 GLAZING CRITERIA PERFORMANCE REQUIREMENTS

- A. Security Glass:

1. Comply with multiple impact and high energy impact tests:
  - a. UL 972.
  - b. ASTM F 1233.
  - c. ASTM F 1915.

- B. Bullet Resistant Glass:

1. Comply with UL 752. Provide glazing listed and labeled by UL for the required rating.

- C. Structural Performance: Glazing shall withstand the following design loads within limits and under conditions indicated:

1. Design Procedure for Glass: ASTM E 1300 and ICC's International Building Code.
2. Design Wind Pressures: As indicated on Drawings.

- D. Safety Glazing: Where safety glazing is indicated, provide glazing that complies with Safety Standard for Architectural Glazing Materials; 16 CFR Part 1201, Category II.

- E. Security Polycarbonate:

1. Comply with ASTM F 1233 containment test body passage or contraband passage level as described in Security Glazing "Compositions" section.
2. Comply with ASTM F 1915 containment test using pendulum impact having blunt, sharp and axe heads with heat /fire (torch) applied.
3. Bullet resistant products shall be tested and listed by UL 752 or ASTM F 1233, whichever is applicable and certified to by the manufacturer of the security glazing.
4. Maintenance serviceability test, all types:
  - a. Products will not exhibit abrasion haze of more than 15 percent when tested to ANSI Z26.1. Taber Abrader test No. 17 for 100 cycles having a 500 gram load.

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- b. No extraordinary procedures shall be required for window cleaning. Manufacturer's recommendations shall be followed.
- F. Experience Criteria:
- 1. Minimum of five (5) years' experience manufacturing specified item.
  - 2. Minimum of five (5) years successful installations on detention and correctional facilities.
  - 3. Security glazing manufacturer approval:
    - a. No security glazing manufacturers will be approved after the bid date. All manufacturers must submit qualifications to the Architect for consideration no less than fifteen (15) days prior to bid date.
- 1.4 ACTION SUBMITTALS:
- A. Required submittals for this section shall be submitted as one complete package. This shall include, but not be limited to, manufacturer's data, shop drawings, and samples. Failure to do so will result in the submittal being "Rejected" and returned.
  - B. Manufacturer's Data – Glass and Glazing:
    - 1. Submit one (1) reproducible (digital format) copy of manufacturer's specifications and installation instructions for each type of glass, setting blocks, sealants, and gaskets required.
    - 2. Include test data substantiating that glass complies with specified requirements.
    - 3. Indicate by copy of transmittal that Glazier has received copy of handling and glazing instructions.
  - C. Manufacturer's Data - Glazing Materials:
    - 1. Submit one (1) reproducible (digital format) copy of manufacturer's specifications and installation instructions for each type of glazing, sealant, tape, compound, gasket and associated miscellaneous material required. Include manufacturer's published data, letter of certification, or certified test laboratory report indicating that each material complies with the requirements as is intended generally for the applications indicated.
    - 2. Indicate by copy of transmittal that Glazier has received copy of each glazing component's recommended installation instructions.
  - D. Shop Drawings:
    - 1. Submit FULL SCALE hollow metal sill glazing installation detail drawings. Details shall indicate the actual glazing products being supplied (i.e. setting blocks, sealants, gaskets), their actual sizes, their placements/spacing and their dimensional relationships within the assembly.
      - a. Provide details for fire-rated and non-fire-rated security glazing.
      - b. Provide details for exterior security glazing.
  - E. Security Glazing Schedule: List glazing types for each opening and location. Use same designations indicated on Drawings.

- F. Glazing Samples: For the following products; 12 inches square, two (2) samples of each type:
  - 1. Type INSG-1.
- G. Shading Film product data and samples: Submit one (1) reproducible (digital format) copy of manufacturer's data and two (2) sets of samples of interior-applied, shading "Films" being considered for glazing types indicated to receive it (refer to Security Glazing types).
- H. Sample Warranties: For security glazing.

#### 1.5 JOB CONDITIONS

- A. Weather Conditions:
  - 1. Do not proceed with installation of liquid sealants under adverse weather conditions, or when temperatures are below or above manufacturer's recommended limitations for sealant installation.

#### 1.6 WARRANTY

- A. Security Glass:
  - 1. Provide Owner a five (5) year guarantee for materials and labor from date of Substantial Completion for all security glazing.
  - 2. Guarantee shall include delamination.
  - 3. The guarantee shall be by the manufacturer, co-signed by the Installer and Detention Equipment Contractor.
  - 4. Manufacturer's warranty on laminated polycarbonate:
    - a. Provide written warranty by the manufacturer of mar-resistant laminated polycarbonate agreeing to supply replacement product, FOB point of manufacture, freight allowed to project site, in the event of material failure due to manufacturing defect. Defect shall be defined as edge separation, delamination, breakage, or coating failure. Time period for said warranty shall be a minimum of five (5) years.

### PART 2 - PRODUCTS

#### 2.1 GLAZING TESTING CRITERIA

- A. Security Glazings:
  - 1. Comply with ANSI standard Z-97.1-2009 Safety Glazing Materials Used in Buildings—Safety Performance Specifications and Methods of Test.
  - 2. Comply with and pass UL multiple impact test.
  - 3. Comply with and pass UL high energy impact test.
  - 4. Comply with ASTM F1915 Standard Test Methods for Glazing for Detention Facilities.
- B. Security Polycarbonates:
  - 1. Types: Laminated or monolithic polycarbonate sheet shall be extruded sheet, UV stabilized, but when laminated uses a interlayer of 0.030 inch "LR" resin. Material layups will vary according to manufacturer's requirements to meet constructions listed in Security Glazing Compositions section. Polycarbonate laminates shall have a flexural strength not less than 13,500 psi (ASTM D790, 180 degrees F continuous service temperature).

Products must conform to the International Building Code (IBC) as an approved light transmitting plastic with a CC-1 flammability performance rating.

- C. APPROVED MANUFACTURERS: (SUBJECT TO COMPLIANCE WITH PERFORMANCE)
1. Global Security Glazing; Selma, AL
  2. DLUBAK Corp; Blairsville, PA
  3. LTI Group; Pittsfield, MA
  4. McGrory Glass; Paulsboro, NJ

## 2.2 SECURITY GLAZING COMPOSITIONS

### A. Security Insulating-Glass Units:

1. Provide factory-assembled units, consisting of sealed lites of glazing material indicated separated by a dehydrated interspace, qualified according to ASTM E 2190.

#### (\*AD-03)

- A. **Type INSG-1:** Outdoor lite is made of monolithic glass and indoor lite is made of glass-clad polycarbonate. 1-3/4" inch nominal, Low-E coated tinted insulating glass unit; outdoor lite is 1/4" Kind FT (fully tempered) gray tinted float glass with Low-E coating on second surface, 1/2" insulating air space, indoor lite shall be Security Glazing Type SG-11 – refer to 2.2.C.2 below. Low-E coating shall match Glass Type G-2 - Insulating Glass Units: Vision glass, double glazed.

1. Applications: Exterior glazing unless otherwise indicated.
2. Space between lites filled with air.
3. Outboard Lite: Fully tempered float glass, 1/4 inch thick, minimum.
  - a. Tint: Gray.
  - b. Coating: Low-E (passive type), on #2 surface.
  - c. Coating Products (Low-E; Gray Tinted):
    - 1) Cardinal; ES 25 Pure Grey #2.
    - 2) Guardian; SN 68 Gray.
    - 3) Viracon; #VE3-2M.
    - 4) Vitro; Solarban 60 (2) Solargray.
4. Warm-edge spacer.
5. Inboard Lite: Fully tempered float glass, 1/4 inch thick, minimum.
  - a. Tint: Clear.
6. Total Thickness: 1 inch.
7. Thermal Transmittance (U-Value), Winter - Center of Glass: 0.30, maximum.
8. Solar Heat Gain Coefficient (SHGC): 0.25, maximum.
9. Glazing Method: Dry glazing method, gasket glazing.
10. Provide with safety glazing labeling.

### B. Polycarbonate Sheet Glazing:

1. **Type SG-1P** – 3/4 inch nominal, multi-ply clear polycarbonate, ASTM F1915 Grade 1, 60 minute containment rated; Global Security Glazing RC 750 or approved equal.

2. **Type SG-2P** – 1/2 inch nominal, multi-ply clear polycarbonate, ASTM F1915 Grade 2, 40 minute containment rated; Global Security Glazing MPC 500 or approved equal.
3. **Type SG-3P** - 3/8 inch nominal, multi-ply clear polycarbonate, ASTM F1915 Grade 3, 20 minute containment rated; Global Security Glazing MPC 375 or approved equal.

C. **Glass Clad Polycarbonates:**

1. **Type SG-10** – 1 inch nominal, 1/8 inch heat strengthened glass, 1/4 inch clear polycarbonate, 3/8 inch clear polycarbonate, 1/8 inch heat strengthened glass, Apply the shading “Film” on the glazing surface away from the inmate occupancy and after the building has received its Certificate of Occupancy. The shading “film” color is to be selected by the Owner under the supervision of the Architect. ASTM F 1915 Grade 1, 60 minute containment rated; Global Security Glazing SP028 or approved equal.
2. **Type SG-11** - 15/16 inch nominal, 1/8 inch heat strengthened glass, 1/8 inch clear polycarbonate, 1/4 inch clear polycarbonate, 1/8 inch clear polycarbonate, 1/8 inch heat strengthened glass. ASTM F1915 Grade 2, 40 minute containment rated; Global Security Glazing 2114 or approved equal.
3. **Type SG-12** – 3/4 inch nominal, 1/8 inch heat strengthened glass, 1/8 inch clear polycarbonate, 1/4 inch clear polycarbonate, 1/8 inch heat strengthened glass with mirror pane. ASTM F 1915 Grade 2, 40 minute containment rated; Global Security Glazing Secur-Tem + Poly SP019 or approved equal.
4. **Type SG-13F** – 1-3/4” nominal thickness; Proprietary multi-layer construction comprised of glass-clad polycarbonate and fire-resistant glass laminate. Apply the shading “Film” on the glazing surface away from the inmate occupancy and after the building has received its Certificate of Occupancy. The shading “film” color is to be selected by the Owner under the supervision of the Architect. 45 minute fire rated, ASTM F1915 Grade 1; Global Security Glazing – Inferno-Lite ULTIMAX 45-SP028-G or INFERNOGARD 45-SP028.
5. **Type SG-14F** - 1-1/8 inch nominal, 1/4 inch wire glass, 1/8 inch clear polycarbonate, 3/8 inch clear polycarbonate, 1/8 inch clear polycarbonate, 1/4 inch wire glass. 45 minute fire rated, ASTM F1915 Grade 1; Global Security Glazing – ICGCP 2416WW.
6. **Type SG-15F (NOT USED)**
7. **Type SG-16F** - 1” nominal, 1/4” wire glass, 1/4” clear polycarbonate, 1/8” clear polycarbonate, 1/4” wire glass. 45 minute fire rated, ASTM F1915 Grade 2; Global Security Glazing – FRP-4540.
8. **Type SG-17F (NOT USED)**
9. **Type SG-18F – (NOT USED)**
10. **Type SG-19F (NOT USED)**

11. **Type SG-20** – 1-1/8” nominal, UL 752 Level 3 Bullet Resistant Glazing; Global Security Glazing – SP311.
12. Wire Glass for Glass-Clad Polycarbonates: Provide square mesh pattern.

**D. “Shading Film” Manufacturers:**

1. Madico Window Films Madico, Inc.; St. Petersburg, FL (727) 327-2544 or (888) 887-2022
2. Aegis Films, Inc.; Norcross, GA (770) 417-1281
3. LLumar Solar Control Window Film; Bassett, VA (276) 629-1711
4. MaxPro Window Films; Whiteville, NC (877) 573-3456
5. Sun Block, Inc.; Midlothian, VA (804) 379-4123
6. X-RAYZ Window Tinting; Charlottesville, VA (434) 296-0176
7. Vista Window Film/CP Films, Inc.; Martinsville, VA (888) 273-4567
8. Film Technologies International, Inc.; St. Petersburg, FL (727) 327-2544

### 2.3 GLAZING SEALANTS/COMPOUNDS

**A. Basic Requirements:**

1. Provide black exposed glazing materials, unless another color is indicated, or unless another color is selected by Architect from manufacturer's standard colors.
2. Provide hardness of materials as recommended by the manufacturer for the required application and condition of installation in each case.
3. Provide only compounds known (proven) to be fully compatible with surfaces contacted.
4. Provide sealants recommended by manufacturer of glazing type specified.
5. Provide silicone sealant bead along entire glazing perimeter, between glazing and stops (removable and non-removable), installed with a substantial “wash” away from security glazing, providing a watertight seal from detergents and cleaning solutions.

**B. Silicone Rubber Glazing Sealant:**

1. Silicon rubber, one part elastomeric sealant, complying with FS TTS001543, Class A. Provide acid-type for porous channel surfaces, and provide non-acid type for porous channel surfaces (where any of the channel surfaces are porous).

**C. Butyl Rubber Glazing Tape:**

1. Partly vulcanized, self-adhesive, non-staining, elastomeric butyl rubber tape, 98 percent solids, intended for 35 percent compression, non-appreciable deterioration for 3000 hour test in Atlas Weatherometer.

**D. One Component Urethane Glazing Sealant:**

1. Solvent based, one component polyurethane; compounded specifically for glazing; complying with FS TT200230, Class A, Type 11.

**E. Acrylic Latex Glazing Compound:**

1. Modified latex rubber and acrylic emulsion polymer, compounded specifically as a glazing sealant with permanent flexibility (non-hardening), non-staining, and non-bleeding.

**F. Butyl Rubber Glazing Sealant:**

1. Polymerized butyl rubber compound with inert fillers and pigments, solvent based with 75 percent solids, non-sag, tack-free within twenty-four (24) hours, paintable, non-staining.

- G. Preformed Butyl rubber Glazing Sealant:
  - 1. Tape or ribbon (coiled on release paper) of polymerized butyl, or mixture of butyl and polyisobutylene, compounded with inert fillers and pigments, solvent based with minimum of 95 percent solids, with thread or fabric reinforcement, tack-free within twenty-four (24) hours, paintable, non-staining.
  - 2. Provide combination type and encased continuous rubber shim, of approximately 50 durometer hardness.

## 2.4 GLAZING GASKETS

- A. Provide glazing gaskets as recommended by manufacturer.
- B. Structural Rubber Glazing Gaskets:
  - 1. Neoprene extrusions with injection molded corner units, fabricated into frames, with either integral or separate locking strips (zippers); comply with ASTM C542, black.
- C. Molded Neoprene Glazing Gaskets:
  - 1. Molded or extruded neoprene gaskets of the profile and hardness required for watertight construction; comply with ASTM D 2000 designation 2BC 415 to 3BC 620, black.
- D. Polyvinyl Chloride Glazing Gaskets:
  - 1. Extruded, flexible PVC gaskets of the profile and hardness shown, or as required for watertight construction; comply with ASTM D 2287.
- E. Vinyl Foam Glazing Tape:
  - 1. Closed cell, flexible, self-adhesive, non-extruding, polyvinyl chloride foam tape; recommended by manufacturer for installation of glass, with only nominal pressure in the glazing channel; comply with ASTM D 1667.
- F. Glazing Sealants - Materials specifically for polycarbonates:
  - 1. General
    - a. Provide products and materials of the type indicated and approved for use with the specified security glass polycarbonate products.
    - b. Comply with recommendations of the manufacturers of each type of glazing material for the storage, installation, and finishing of respective products.
  - 2. Compatibility
    - a. Install using sealants of proven compatibility with the various surfaces in which they will come in contact with, including all submitted silicones, setting blocks, glazing tape, and edge block materials.
    - b. Provide sealants of the color specified, or from manufacturer's standard as chosen by the Architect.
  - 3. Materials
    - a. Silicone sealants shall be single component elastomeric silicone complying with the following:
      - 1) FS TT-S-001543A (COM-NBS), Class A, non-sag.
      - 2) ASTM C 920, Type S, Grade NS, Class 50, Use G for high modulus silicone.
      - 3) DOWSIL 995 Silicone Structural Sealant or equal.
    - b. Glazing tape shall be pre-formed polyisobutylene butyl sealant, Tremco 440, Tremco Polyshim II, or equal.
    - c. Setting blocks shall be neoprene or EPDM (70 to 90 durometer) 3 inches to 4 inches long.

- d. Edge blocks shall be neoprene, EPDM or silicone (40-50 durometers) and of a size and spaced as to prevent lateral movement.

## 2.5 MISCELLANEOUS GLAZING MATERIALS

- A. Setting Blocks:
  - 1. Neoprene, 7090 durometer hardness, proven compatible with sealants used.
- B. Spacers:
  - 1. Neoprene 4050 durometer hardness, with proven compatibility with sealants used.
- C. Compressible Backer Rod:
  - 1. Closed cell or waterproof jacketed rod stock of synthetic rubber or plastic foam, proven to be compatible with sealants used, flexible and resilient, with 510 psi compression strength for 25 percent deflection.
- D. Self-adhesive, Compressible Filler:
  - 1. Closed cell, polyvinyl chloride foam compressible filler, size 1/2 inch thick by full depth of intermediate composite tube section; color-black. Provide with pressure sensitive adhesive on one side for attachment to tube section. Compressible filler as manufactured by Tremco.
- E. Cleaners, Primers, and Sealers:
  - 1. Type recommended by sealant or gasket manufacturer.
- F. Exposed Security Fasteners:
  - 1. Provide Torx-head (star design with center pin) security fasteners for anchoring work in exposed security areas.
  - 2. Finish shall match that specified of the item anchored. (Do not paint Torx- heads.)
  - 3. Provide three (3) sets of tools for security fasteners.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine framing and glazing channel surfaces, backing, removable stop design, and the conditions under which the glazing is to be performed. Notify the Architect in writing of any conditions detrimental to the proper and timely completion of the work. Do not proceed with the glazing until unsatisfactory conditions have been corrected.

### 3.2 STANDARDS AND PERFORMANCE

- A. Watertight and airtight installation of each piece of glass is required, except as otherwise shown. Each installation must withstand normal temperature changes, wind loading, impact loading (for operating sash and doors) without failure of any kind including loss or breakage of glass, failure of sealants or gaskets to remain watertight and airtight, deterioration of glazing materials and other defects in the work.
- B. Protect glass from edge damage during handling, installation and operations of the building.
- C. Glazing channel dimensions are intended to provide for necessary minimum bite on the glass, minimum edge clearance and adequate sealant thicknesses, with reasonable tolerances. The

Glazier is responsible for correct size for each opening, with the tolerance and necessary dimensions established.

- D. Comply with combined recommendations of glass manufacturer and manufacturer of sealants and other materials used in glazing, except where more stringent requirements are shown or specified, and except where manufacturer's technical representatives direct otherwise.
- E. Comply with "Glazing Manual" by Flat Glass Marketing Association except as shown and specified otherwise, and except as specifically recommended otherwise by the manufacturers of the glass and glazing materials.
- F. Inspect each piece of glass immediately before installation and eliminate any which have observable edge damage or face imperfections.
- G. Unify appearance of each series of lites by setting each piece to match others as nearly as possible. Inspect each piece and set with pattern, draw and bow oriented in the same direction as other pieces.
- H. Cut and install colored (tinted) glass as recommended in "Technical Services Report No. 104" by PPG Industries.
- I. All expenses incurred by the Architect in troubleshooting the Security Glass and Glazing work, caused by inadequate workmanship or other form of non-performance on the part of the subcontractor, shall be borne by that subcontractor.

### 3.3 PREPARATION FOR GLAZING

- A. Clean glazing channels and other framing members to receive security glazing, immediately before glazing. Remove coatings not firmly bonded to substrates. Remove lacquer from metal surfaces wherever elastomeric sealants are used.
- B. Apply primer or sealer to joint surfaces wherever recommended by sealant manufacturer.

### 3.4 GLAZING

- A. Comply with glass, window, and frame manufacturer's recommendations.
- B. Install setting blocks, of proper size, at quarter points of sill rabbet. Set blocks in thin course of the heel bead compound, if any.
- C. Glazing shall be set with equal bearing for entire width.
- D. Provide spacers inside and out, and of proper size and spacing, for all glass sizes larger than 50 inches, except where gaskets are used for glazing. Provide 1/8 inch minimum bite of spacers on glass and use thickness equal to sealant width, except with sealant tape use thickness slightly less than final compressed thickness of tape.
- E. Voids and Filler Rods:
  - 1. Prevent exudation of sealant or compound by forming voids or installing filler rods in the channel at the heel of jambs and head (do not leave voids in the sill channels) except as otherwise indicated, depending on lite size, thickness, and type of glass, and complying with manufacturer's recommendations.
- F. Do not attempt to cut, seam, nip or abrade glazing which is tempered, heat strengthened, or coated.

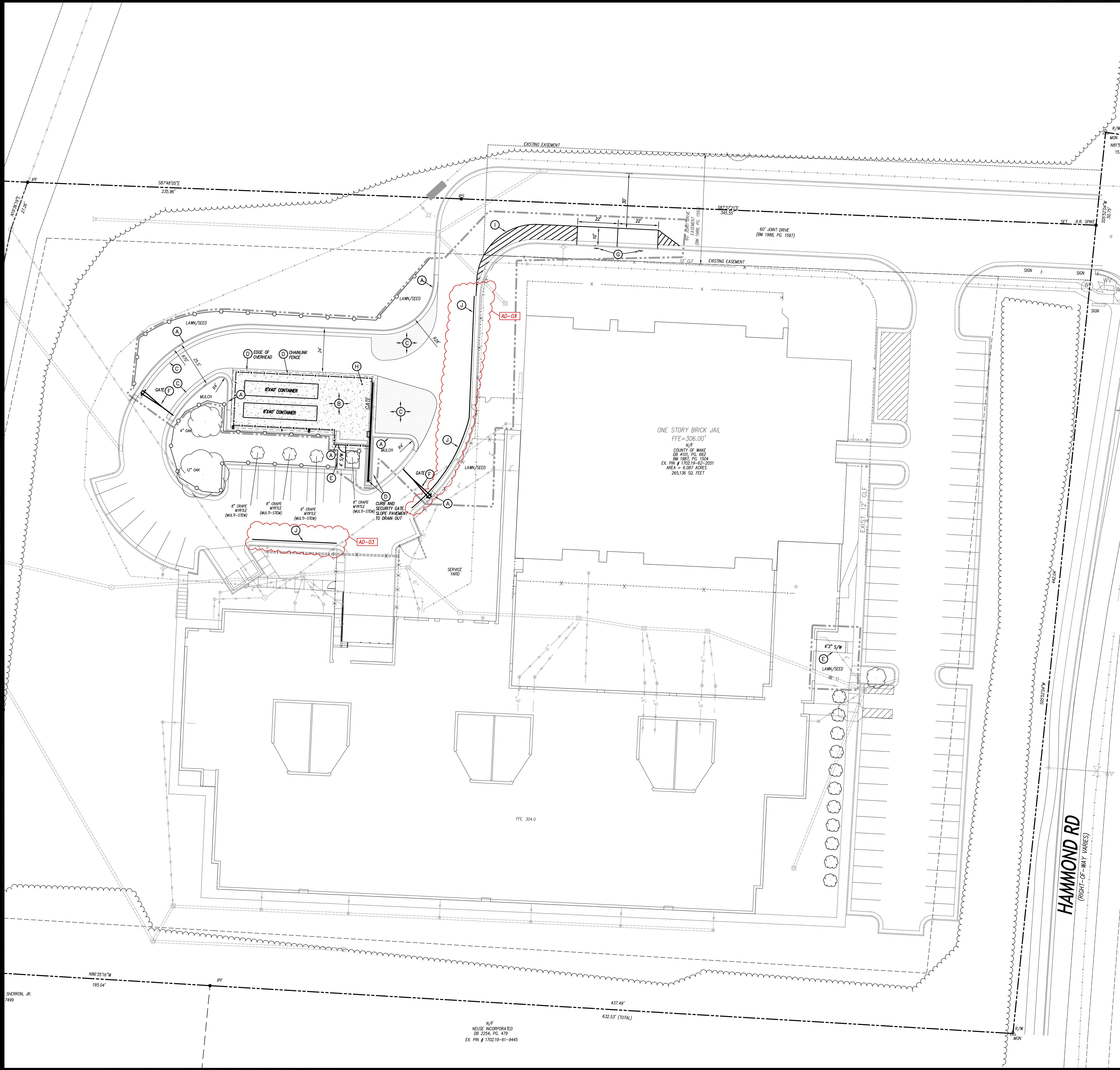
- G. Force sealants into channel to eliminate voids and to ensure complete “wetting” or bond of sealant to glass and channel surfaces.
- H. Provide silicone sealant bead along entire glazing perimeter, between glazing and stops (removable and non-removable), installed with a substantial “wash” away from the glass, providing a watertight seal from detergents and cleaning solutions.
- I. Clean and trim excess glazing materials from the glass and stops or frames promptly after installation, and eliminate stains and discolorations.
- J. Specific recommendations for polycarbonate glazing installation:
  - 1. Install setting blocks of proper size in sill rabbet, located one quarter of glass width from each corner, but with edge nearest corner not closer than 6 inches from corner unless otherwise required. Set blocks in thin course of sealant.
  - 2. Provide spaces inside and out, of correct size and spacing to preserve required face clearances, for glass sizes larger than 50 inches, except where gaskets or glazing tapes with continuous spacer rods are used for glazing. Provide 1/8 inch minimum bite of spacers on glass and use thickness equal to sealant width, except with sealant tape use thickness slightly less than final compressed tape thickness.
  - 3. Setting blocks, edge blocks, silicone cap beads, glazing tapes/filler rod installation shall comply with GANA (Glass Association of North America) 2008 Edition standards.
  - 4. Tapes and gaskets are to be installed slightly protruded so as to eliminate dirt and moisture pockets. Exposed sealants shall form a wash away from the glazing.
  - 5. Polycarbonate glazing edge engagements shall generally be 1 inch, unless otherwise approved by the Architect and confirmed by the manufacturer.
  - 6. Expansion allowances for polycarbonate shall generally be 1/16 inch per 12 inches, per 100 degrees F changes in temperature or as approved by the Architect per manufacturer’s recommendations.
  - 7. Polycarbonate installation and fabrication shall comply with the written recommendations of the polycarbonate manufacturer. Copies of aforementioned recommendations shall be furnished to the Architect.
  - 8. Install all polycarbonates as late as possible in the construction of the facility. Masking should be removed approximately 1 to 2 inches from the edges so as to allow the glazing tape/silicone to come in contact with the polycarbonate.
  - 9. All polycarbonate lites, exposed to direct sunlight, shall have the masking entirely removed and then securely covered with polyethylene taped to the frames. Failure to remove the masking at this time may result in adhesion of the masking, preventing later removal.
  - 10. Where wedge shaped gaskets are driven into one side of the channel to pressurize the sealant or gasket on the opposite side, provide adequate anchorage to ensure that gasket will not “walk” out when subjected to dynamic movement. Anchor gasket to stop with matching ribs, or by proven adhesive, including embedment of gasket tail in cured heel bead.
  - 11. Glaze units at the building site.
- K. Gasket Glazing:
  - 1. Miter cut and bond ends together at corners where gaskets are used for channel glazing, so that gaskets will not pull away from corners and result in voids or leaks in the glazing system.

3.5 CURE, PROTECTION AND CLEANING

- A. Cure glazing sealants & compounds in compliance with manufacturer's instructions and recommendations, to obtain high early bond strength, internal cohesive strength and surface durability.
- B. Protect glass from breakage immediately upon installation, by attaching crossed streamers to framing held away from glass. Do not apply markers of any type to surfaces of glass.
- C. Remove and replace glass which is broken, chipped, cracked, abraded, or damaged in other ways during the construction period, including natural causes, accidents and vandalism.
- D. Maintain glass in a reasonably clean condition during construction so that it will not be damaged by corrosive action and will not contribute (by wash off) to the deterioration of glazing materials and other work.
- E. Polycarbonate materials shall be cleaned using a mild detergent (such as Formula 409) and lukewarm water. Use a clean, soft cloth or sponge, rinse well with clean water.
- F. Paint splashes can be removed using VM&P Naphtha, isopropyl alcohol, or butyl cellosolve, or as otherwise recommended by the glazing manufacturer. Do not use butyl cellosolve in direct sunlight.
- G. DO NOT use abrasives, paint scrapers, razor blades, or squeegees on polycarbonate. Benzene, gasoline, acetone, or carbon tetrachloride should not be used on either polycarbonate or mar resistant polycarbonate.
- H. Cleaning instruction coordination shall be the responsibility of the general contractor. The glazier manufacturer, painter, and other trades shall be informed of all cleaning instructions.
- I. Wash and polish glass on both faces not more than four (4) before date scheduled for inspections that establish date of Substantial Completion. Comply with security glazing manufacturer's cleaning recommendations. These washing and polishing efforts shall be done by a professional cleaning/custodial firm.

END OF SECTION 111950





**GENERAL NOTES**

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH ALL CITY OF RALEIGH AND NCDOT STANDARDS AND SPECIFICATIONS.
2. ALL DIMENSIONS SHOWN ARE TO FACE OF CURB AND FACE OF BUILDING WALL, UNLESS OTHERWISE SHOWN.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD VERIFICATION OF ALL DIMENSIONS SHOWN AND CONTACT THE ARCHITECT IF ANY DISCREPANCIES OCCUR.
4. CONSTRUCTION STAKE OUT IS THE RESPONSIBILITY OF THE CONTRACTOR.
5. ALL PAVEMENT MARKINGS AND SIGNAGE SHALL CONFORM TO THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
6. ALL FACE OF RADII ARE 4'-FT UNLESS OTHERWISE SHOWN.
7. ANY AND ALL LANDSCAPING, EXISTING TREES OR SHRUBS TO REMAIN WHICH ARE DAMAGED DURING DEMOLITION OR CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR UTILIZING A LICENSED LANDSCAPE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
8. CONTRACTOR SHALL SUBMIT SCALED PLANS OF ALL SCORING/JOINTS FOR APPROVAL BY ARCHITECT 30 DAYS MINIMUM PRIOR TO INSTALLATION.
9. THE CROSS-SLOPE ON ALL SIDEWALKS SHALL BE A MAXIMUM OF 2.0%.
10. NO WORK SHALL BE PERFORMED ON RIGHT-OF-WAYS OR ADJACENT PROPERTIES UNTIL THE OWNER NOTIFIES CONTRACTOR IN WRITING OF PROCEDURES OF APPROPRIATE PERMITS, EASEMENTS, AGREEMENTS, OR RIGHTS-OF-WAY.
11. CONTRACTOR TO PROVIDE AS-BUILT IMPERVIOUS SURVEY SEALED BY A NOLTS AT THE COMPLETION OF THE PROJECT.

**KEY NOTES**

- (A) 30-IN CURB & GUTTER, SEE DETAIL SHEET C4.1.
- (B) CONCRETE PAVEMENT, SEE DETAIL SHEET C4.1.
- (C) "HEAVY" DUTY ASPHALT PAVEMENT, SEE DETAIL SHEET C4.1.
- (D) SEE ARCHITECTURAL PLANS FOR CANOPY, CONTAINERS, FENCING, AND GATES.
- (E) CONCRETE SIDEWALK, SEE DETAIL SHEET C4.1.
- (F) PARKING BARRIER GATE AND CONTROLLER, SEE SPECIFICATIONS AND ELECTRICAL PLANS.
- (G) SPECIAL PARKING SIGNAGE, SEE DETAIL SHEET C4.2.
- (H) STEEL BOLLARD, SEE DETAIL SHEET C4.2.
- (I) PAVEMENT MARKING, SEE TRAFFIC CONTROL NOTES, THIS SHEET.
- (J) NO PARKING - FIRE LANE MARKINGS, SEE TRAFFIC CONTROL NOTES THIS SHEET.

**TRAFFIC CONTROL NOTES**

ALL SIGNS SHALL BE MOUNTED WITH 7'-FT MIN. VERTICAL CLEARANCE TO THE BOTTOM OF THE SIGN ON 3-LB. GALV. STEEL U-CHANNEL POST SET IN 3'-FT DEEP x 12-IN DIA. CONCRETE FOOTING.

ALL PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE MUTCD AND NCDOT STANDARDS AND THE PROJECT SPECIFICATIONS.

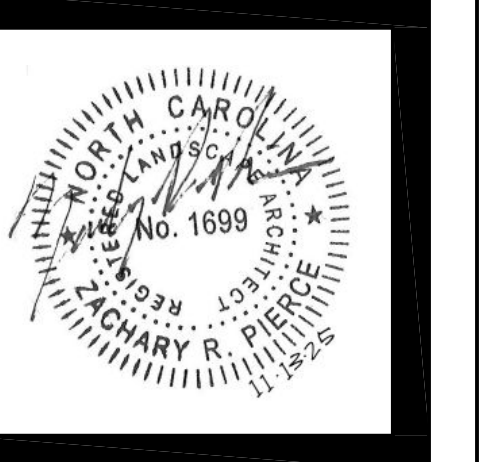
MARKING	NCDOT STD.	SIZE	COLOR
PARKING SPACES	-	4'-IN	WHT.
DIAGONAL	1205.09	8'-IN	YEL.
NO PARKING - FIRE LANE	-	4'-IN	YEL.

\* NO PARKING - FIRE LANE MARKING SHALL BE THERMOPLASTIC AND CONFORM TO CITY OF RALEIGH STANDARDS SPECIFICATIONS FOR FIRE LANE STRIPING AND CONSIST OF A 4" SOLID YELLOW STRIPE AND 8" HIGH YELLOW TEXT "NO PARKING - FIRE LANE" AT 40' INTERVALS.

ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC TYPE EXCEPT FOR PARKING SPACE LINES WHICH SHALL BE ALKYLID-RESIN TYPE PAINT.

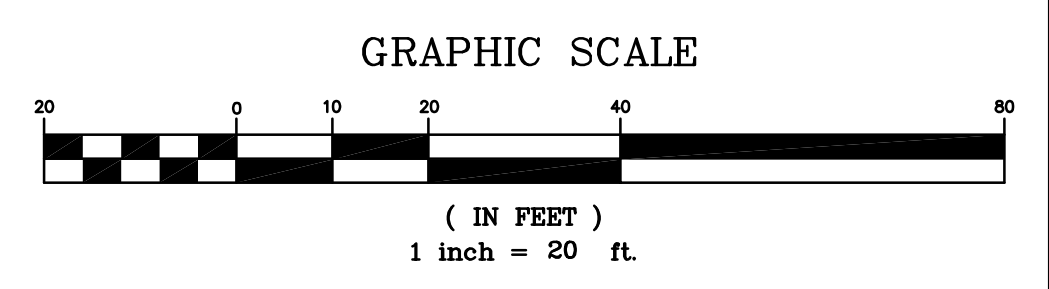
COORDINATE FIRE LANE MARKINGS WITH CITY OF RALEIGH FIRE MARSHAL.

BID TO INCLUDE AN ADDITIONAL 200'-FT OF FIRE LANE STRIPING TO BE INSTALLED AT THE DISCRETION OF THE FIRE MARSHAL.



**DETENTION ANNEX RENOVATION**  
 3400 Hammond Road, Raleigh, NC 27603  
 Wake County, North Carolina  
 Client Project Number

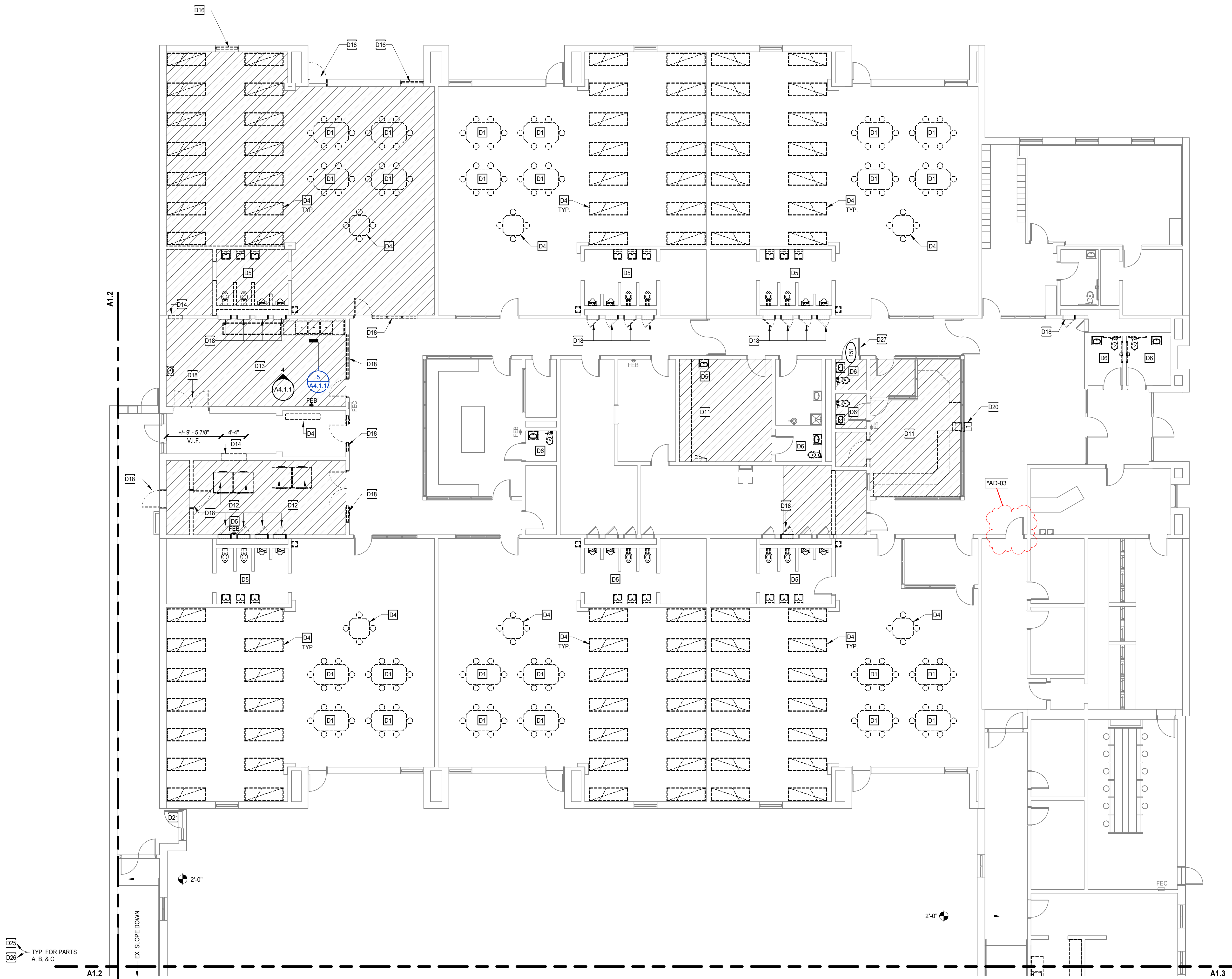
PROJECT NO:	642088
CLIENT PROJECT NO:	24-180
DATE:	11/11/2025
REVISIONS	
DATE	DESCRIPTION
11-13-2025	AD-03



**CLH DESIGN**  
 CLH design, p.a.  
 400 Regency Forest Dr.  
 Suite 120  
 Cary, NC 27518  
 T: 919.319.6716  
 LA: C-106 PE: C-1595

STAKING & LANDSCAPE PLAN

**C1.1**



**DEMOLITION FLOOR PLAN - PART C**  
1/8" = 1'-0"

DEMOLITION PLAN LEGEND	
APPLIES TO DRAWINGS A1.2.1 - A1.2.n	
	EXISTING PARTITION/WALL/ITEM TO REMAIN
	REMOVE EXISTING PARTITION/WALL/ITEM
	REMOVE EXISTING WINDOW ASSEMBLY AND FRAMING, INCLUDING ANCHORS
	REMOVE EXISTING DOOR AND FRAME ASSEMBLY INCLUDING DOOR HARDWARE, ANCHORS, AND THRESHOLD (WHERE OCCURS).
	REMOVE EXISTING PLUMBING FIXTURE. REFER TO PLUMBING DEMOLITION PLAN FOR ADDITIONAL INFORMATION.
	REMOVE ALL EXISTING FINISH FLOORING & BASES IN AREA.
	REMOVE EXISTING SECURITY GB CEILING.

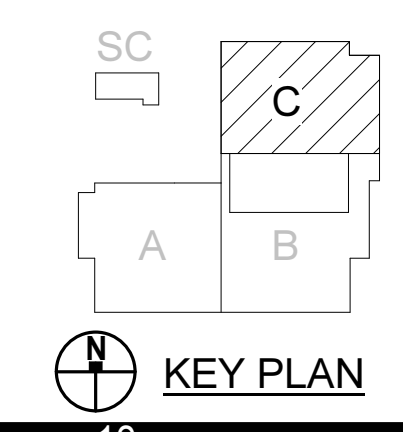
- DEMOLITION PLAN GENERAL NOTES**
- NOT ALL ITEMS ARE INDICATED ON THESE DRAWINGS. REFERENCE OTHER DISCIPLINES FOR DEMOLITION ITEMS NOT INDICATED AND COORDINATE ACTIVITIES.
  - DEMOLITION WORK ON THESE DRAWINGS INVOLVES THE REMOVAL OF EXISTING CONSTRUCTION UNDER THIS CONTRACT, AND SHALL BE COORDINATED WITH CORRESPONDING RENOVATION FLOOR PLANS AND DETAILS. REMOVE EXISTING CONSTRUCTION AS INDICATED FOR FINISHED CONSTRUCTION AND PERFORM WORK TO CONFORM TO THE DETAILS.
  - NO LOAD BEARING WALLS OR STRUCTURAL COLUMNS SHALL BE REMOVED.
  - REFER TO PLUMBING AND ELECTRICAL DRAWINGS FOR ADDITIONAL AREAS OF WORK UNDERSLAB THAT MAY REQUIRE PORTIONS OF THE EXISTING SLAB TO BE REMOVED AND REPLACED. REMOVE AND REPLACE SLAB AS REQUIRED TO COMPLETE RENOVATION WORK.
  - ALL ITEMS GRAPHICALLY SHOWN AS DASHED SHALL BE REMOVED.
  - WHERE WALLS ARE INDICATED TO BE DAMAGED, REMOVE ENTIRE WALL ASSEMBLY (FULL HEIGHT) INCLUDING ANY ASSOCIATED/ EMBEDDED COMPONENTS AND TOP-OF-WALL METAL STUD PARTITION PORTIONS, BRACING AND SUPPORTS - UNO.
  - GROUT SOLID ALL VOIDS LEFT BY REMOVED FLOOR DRAINS OR OTHER EMBEDDED ITEMS. LEVEL FLOOR TO REMOVE SLOPE WHEN SLOPE IS NOT REQUIRED BY RENOVATION WORK.
  - REMOVE EXISTING SMOKE SEALS ON ALL DOORS LOCATED IN SMOKE BARRIER WALLS.

**DEMOLITION PLAN KEYNOTES**  
REPRESENTED BY [1]  
APPLIES TO DRAWINGS A1.2 - A1.4

D1	SALVAGE EXISTING DETENTION FURNISHINGS. CLEAN, REPAINT AND REINSTALL WHERE SHOWN.
D2	REMOVE EXISTING CMU WALL.
D3	SALVAGE EXISTING STAINLESS STEEL COUNTER. CLEAN AND REINSTALL WHERE SHOWN.
D4	SALVAGE EXISTING DETENTION FURNISHINGS. MOVE TO OFF-SITE STORAGE AS DIRECTED BY THE OWNER.
D5	REMOVE EXISTING PLUMBING FIXTURES. CAP EXISTING SUPPLY AND DRAIN LINES.
D6	REMOVE EXISTING PLUMBING FIXTURES. PREPARE TO INSTALL REPLACEMENT FIXTURES.
D7	EXISTING STORAGE CONTAINERS TO BE RELOCATED. (NIC)
D8	SALVAGE EXISTING INMATE PHONE PEDESTAL. REINSTALL WHERE SHOWN.
D9	REMOVE EXISTING VIDEO VISITATION MILLWORK.
D10	REMOVE EXISTING DETENTION WINDOW AND WALL. CORNER MULLION TO REMAIN. PREPARE FOR INSTALLATION OF DOOR.
D11	REMOVE EXISTING MILLWORK.
D12	REMOVE EXISTING LAUNDRY EQUIPMENT.
D13	REMOVE EXISTING KITCHEN EQUIPMENT. REINSTALL THE EQUIPMENT INDICATED ON FOOD SERVICE EQUIPMENT SCHEDULE. SEE FS 02.
D14	REMOVE PORTION OF EXISTING WALL. PREPARE FOR DOOR AND FRAME.
D15	REMOVE EXISTING GLAZING AND FOOD PASS AT EXISTING SHM DOOR.
D16	REMOVE EXISTING EXTERIOR WINDOW AND SECURITY SCREENS.
D17	REMOVE EXISTING LOAD BEARING CMU WALL. PROVIDE TEMPORARY SHORING. SEE STRUCTURAL DWGS.
D18	REMOVE EXISTING DOOR AND FRAME.
D19	REMOVE EXISTING DOOR. EXISTING FRAME TO REMAIN.
D20	REMOVE EXISTING PACKAGE PASS. INFILL EXISTING CMU WALL.
D21	REMOVE EXISTING GLAZING AT EXISTING SHM DOOR AND FRAME.
D22	REMOVE PORTION OF CMU WALL. PREPARE TO INSTALL MECHANICAL LOUVER.
D23	REMOVE EXISTING FINISHES. LEVEL FLOOR & PREPARE TO INSTALL FLUID-APPLIED FLOORING.
D24	REMOVE EXISTING FLOOR FINISHES & PREPARE FOR FINISH INDICATED ON A3.0.1.
D25	REMOVE ERRANT PAINT HIDING THE EXISTING FIRE RATING LABELS ON DOORS AND FRAMES.
D26	CLEAN AND PREPARE ALL DOORS AND FRAMES TO RECEIVE PAINT AS SCHEDULED.
D27	PREPARE FOR DOOR REPAIR. SEE A3.1.1.

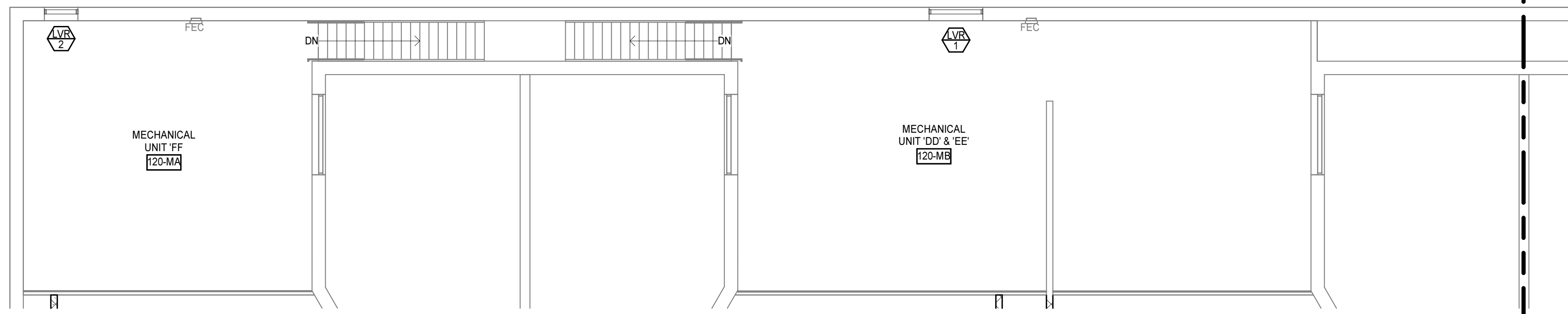


PROJECT NO.	DATE	REVISIONS
642088	10/13/2025	
DATE	DESCRIPTION	
11/13/25	*AD-03	



EQUIPMENT PLATFORM PLAN - PART A

1/8" = 1'-0"



DETENTION EQUIPMENT SCHEDULE				
NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
D1	PENAL COMBINATION FIXTURE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, SINGLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH	PER DETAIL	4/A7.2.1	SALVAGED SS COUNTER TOP, INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	INCLUDES WALL EMBED PLATE
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI-LIGATURE	REFER TO SHOWER ELEVATIONS		
D17	SAFETY HOOK, SINGLE	PER DETAIL	8/A7.2.1	
D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A.7.2.1 SIM	EXISTING TABLE, RE-INSTALL IN LOCATION SHOWN
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A.7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A.7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		

NOTE:  
1. SAND AND REPAINT EXISTING FURNITURE TO BE SALVAGED AND REINSTALLED.

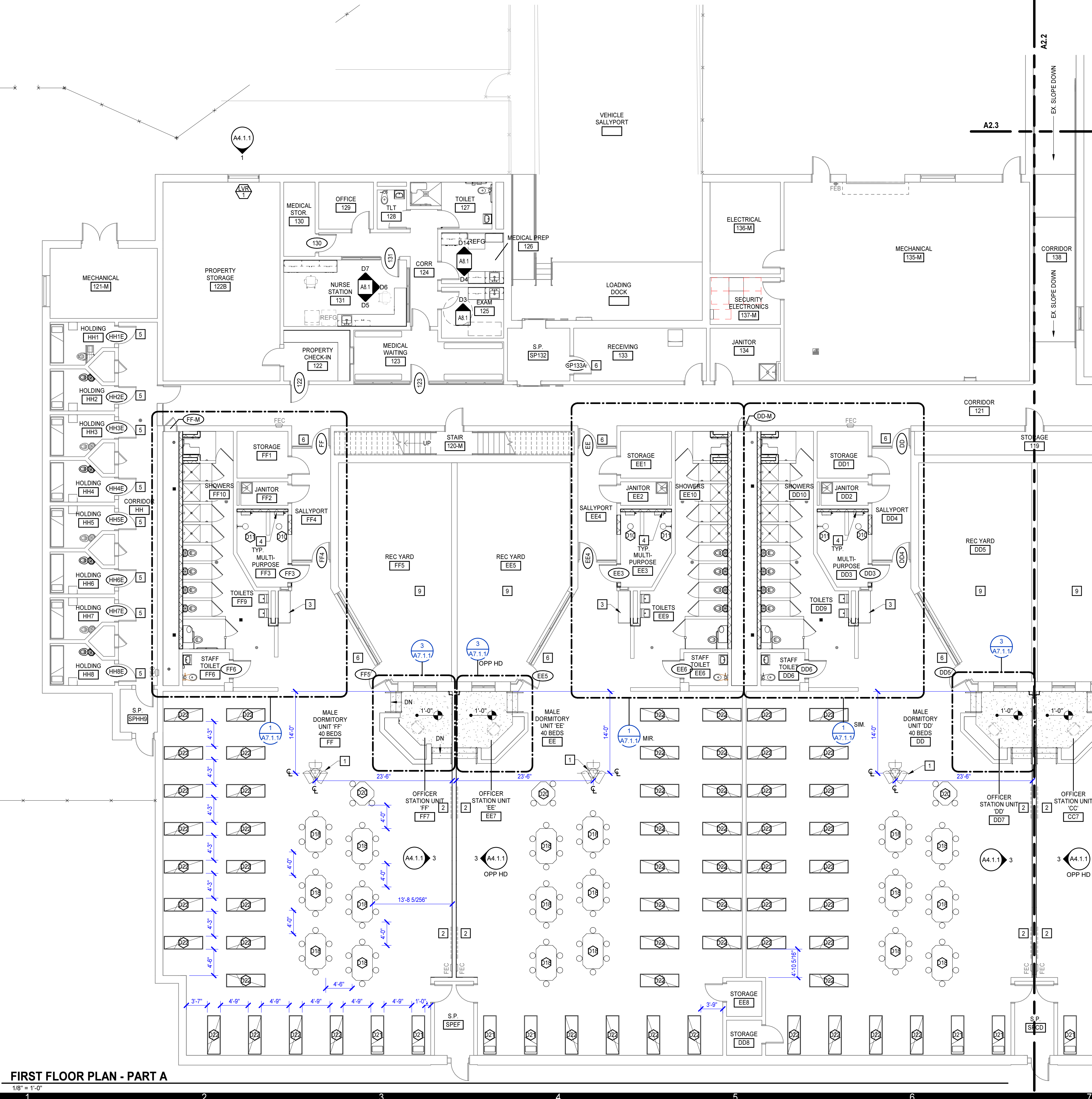
FLOOR PLAN GENERAL NOTES

- A. REMOVE PAINT FROM ALL EXISTING FIRE RATED DOOR AND FRAME LABELS.
- B. ALL DOORS AND FRAMES IN RATED WALLS ARE TO BE INSPECTED AND FIELD LABELED TO CODE REQUIRED OPEN PROTECTIVE EQUIVALENT.
- C. PROVIDE SMOKE SEALS ON ALL DOORS / FRAMES LOCATED IN SMOKE BARRIER WALLS.
- D. ADJUST AND RE-LUBRICATE ALL EXISTING DOOR HARDWARE TO REMAIN AND RETURN TO GOOD WORKING ORDER.
- E. CLEAN AND PREPARE ALL DOORS AND FRAMES TO RECEIVE NEW PAINT AS SCHEDULED.

FLOOR PLAN KEYNOTES

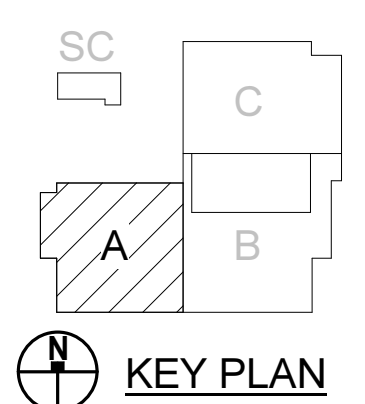
REPRESENTED BY [A]  
APPLIES TO DRAWINGS A2.1 - A2.n

- 1. SALVAGED INMATE PHONE PEDESTAL
- 2. WALL-MOUNTED TELEVISION (NIC)
- 3. SALVAGED STAINLESS-STEEL COUNTERTOP, MOUNT AT 2'-6" AFF
- 4. VIDEO VISITATION STATION
- 5. INSTALL SECURITY GLAZING AND FOOD PASS AT SHM DOOR.
- 6. INSTALL SECURITY GLAZING AT SHM DOOR AND FRAME.
- 7. SPACES TO REMAIN UN-USED AFTER WORK HAS BEEN COMPLETED
- 8. WIRE MESH PARTITION WITH DOOR, PADLOCK BY OWNER
- 9. CLEAN ALL REC YARDS OF LEAVES AND DEBRIS. CLEAN OUT ALL CLOGGED FLOOR DRAINS AND REMOVE STANDING WATER. REPAIR EXISTING WINDOW AND DOOR FRAMES & PROVIDE SEALANT AT WINDOW PERIMETER.
- 10. CONTROL DESK REFER TO SPEC SECTION 125000 FURNITURE
- 11. INSTALL / APPLY WINDOW FILM TO DOOR AND SIDELITE GLAZING

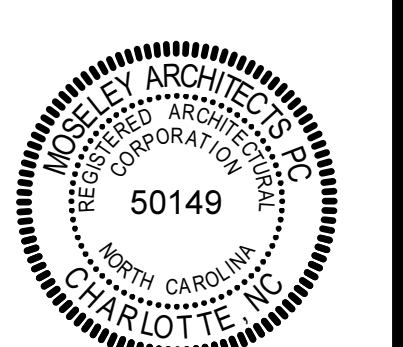


FIRST FLOOR PLAN - PART A

1/8" = 1'-0"



**MOSELEYARCHITECTS**  
6210 ARDREY KELL ROAD - THE HUB AT WAWERLY, SUITE 425 - CHARLOTTE, NC 28277  
PHONE (704) 545-3155 FAX (704) 545-3154  
MOSELEYARCHITECTS.COM



**DETENTION ANNEX RENOVATION**  
3400 Hammond Road, Raleigh, NC 27603  
Wake County, North Carolina  
J-397-SJD/DWC

PROJECT NO:	642088
DATE:	10/13/2025
REVISIONS:	
DATE:	DESCRIPTION
11/13/25	*AD-03

FLOOR PLAN - PART A

A2.1

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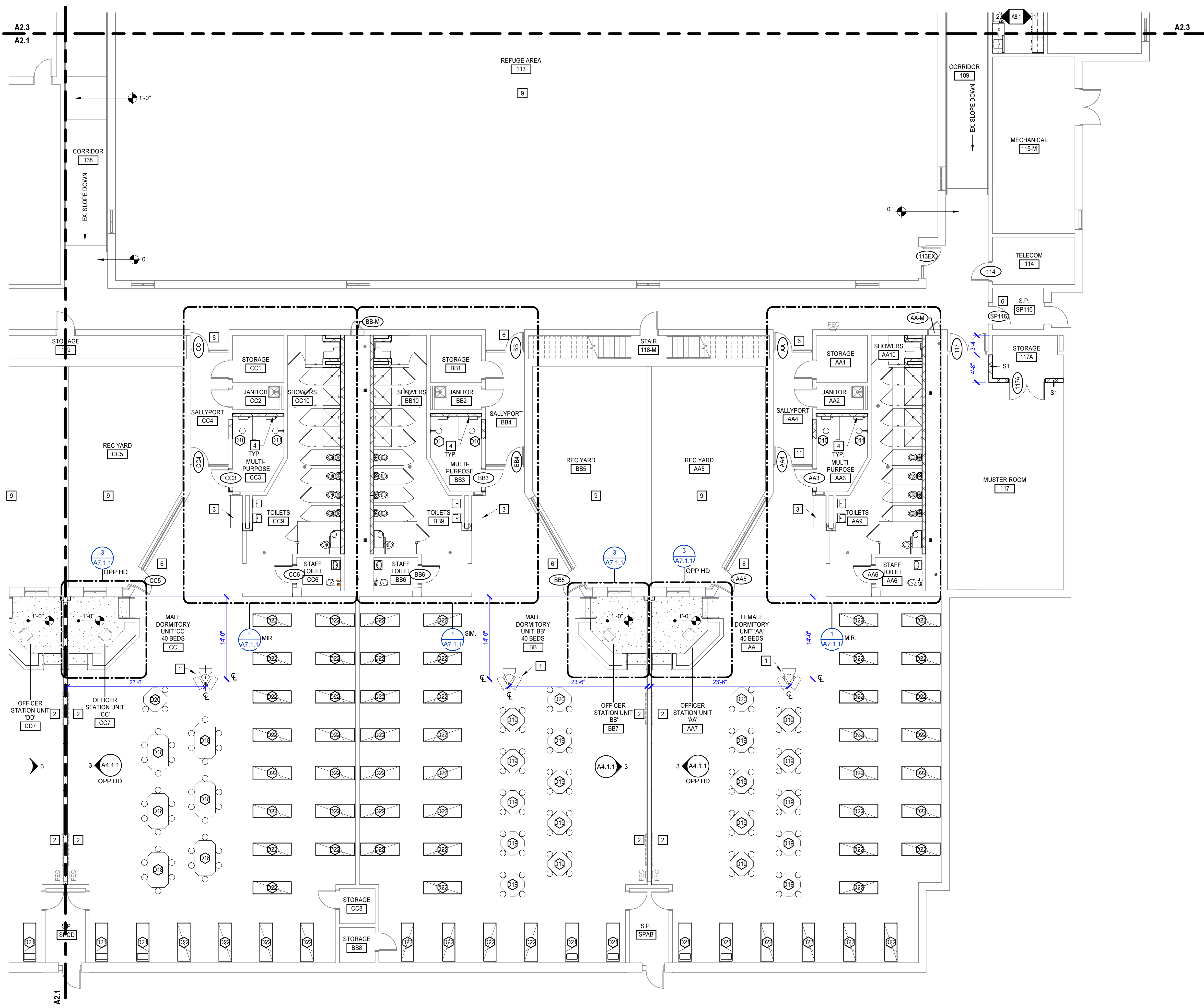
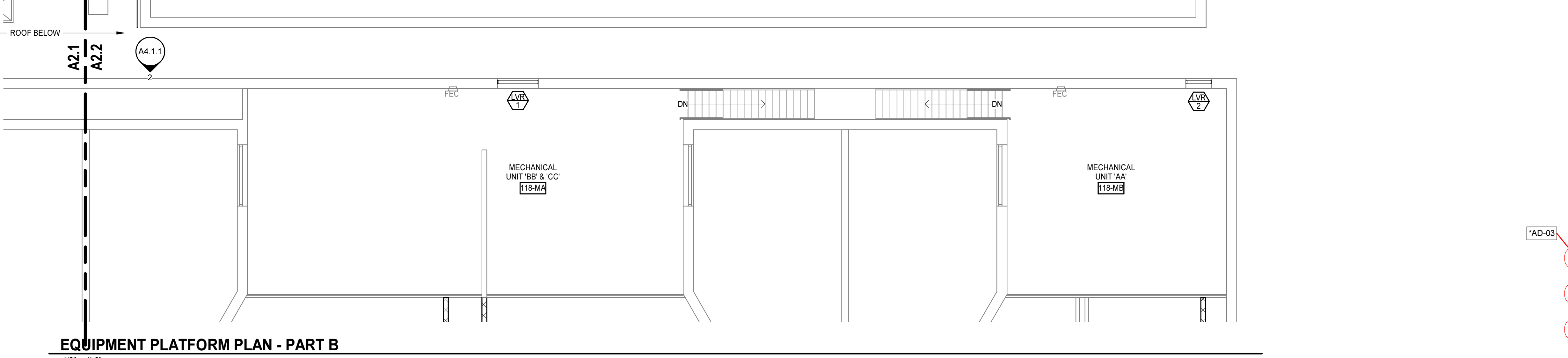
PROJECT NO:	642088
DATE:	10/13/2025
REVISIONS:	
DATE:	DESCRIPTION
11/13/25	*AD-03

DETENTION EQUIPMENT SCHEDULE				
NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
D1	FEMAL COMBINATION FIXTURE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, SINGLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH	PER DETAIL	<varies>	SALVAGED SS COUNTER TOP. INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	INCLUDES WALL EMBED PLATE
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI-LIGATURE	REFER TO SHOWER ELEVATIONS		
D17	SAFETY HOOK, SINGLE	PER DETAIL	8/A7.2.1	
D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A.7.2.1 SIM	EXISTING TABLE. RE-INSTALL IN LOCATION SHOWN.
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A.7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A.7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		

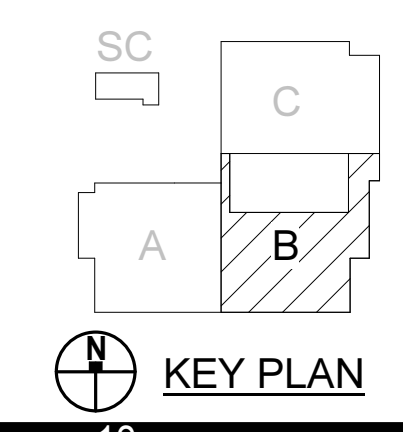
NOTE:  
 1. SAND AND REPAINT EXISTING FURNITURE TO BE SALVAGED AND REINSTALLED.

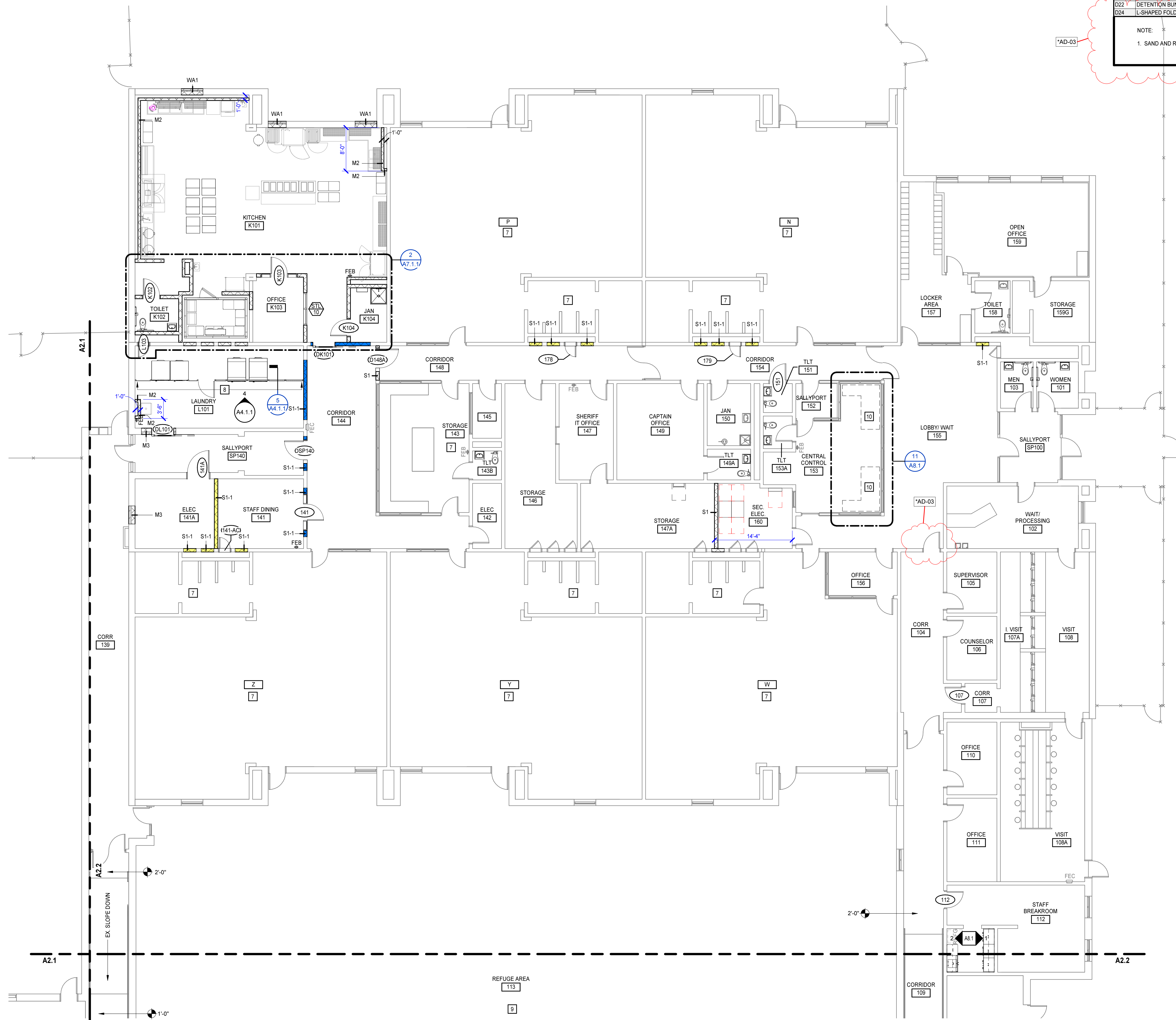
FLOOR PLAN GENERAL NOTES	
A.	REMOVE PAINT FROM ALL EXISTING FIRE RATED DOOR AND FRAME LABELS.
B.	ALL DOORS AND FRAMES IN RATED WALLS ARE TO BE INSPECTED AND FIELD LABELED TO CODE REQUIRED OPEN PROTECTIVE EQUIVALENT.
C.	PROVIDE SMOKE SEALS ON ALL DOORS / FRAMES LOCATED IN SMOKE BARRIER WALLS.
D.	ADJUST AND RE-LUBRICATE ALL EXISTING DOOR HARDWARE TO REMAIN AND RETURN TO GOOD WORKING ORDER.
E.	CLEAN AND PREPARE ALL DOORS AND FRAMES TO RECEIVE NEW PAINT AS SCHEDULED.

FLOOR PLAN KEYNOTES	
REPRESENTED BY [A]	
APPLIES TO DRAWINGS A2.1 - A2.m	
1	SALVAGED INMATE PHONE PEDESTAL.
2	WALL-MOUNTED TELEVISION (NIC)
3	SALVAGED STAINLESS-STEEL COUNTERTOP. MOUNT AT 2'-8" AFF
4	VIDEO VISITATION STATION
5	INSTALL SECURITY GLAZING AND FOOD PASS AT SHM DOOR.
6	INSTALL SECURITY GLAZING AT SHM DOOR AND FRAME.
7	SPACES TO REMAIN UN-USED AFTER WORK HAS BEEN COMPLETED
8	WIRE MESH PARTITION WITH DOOR. PADLOCK BY OWNER
9	CLEAN ALL REC YARDS OF LEAVES AND DEBRIS. CLEAN OUT ALL CLOGGED FLOOR DRAINS AND REMOVE STANDING WATER. REPAINT EXISTING WINDOW AND DOOR FRAMES & PROVIDE SEALANT AT WINDOW PERIMETER.
10	CONTROL DESK REFER TO SPEC SECTION 125000 FURNITURE
11	INSTALL / APPLY WINDOW FILM TO DOOR AND SIDELITE GLAZING



**FIRST FLOOR PLAN - PART B**  
 1/8" = 1'-0"





FIRST FLOOR PLAN - PART C

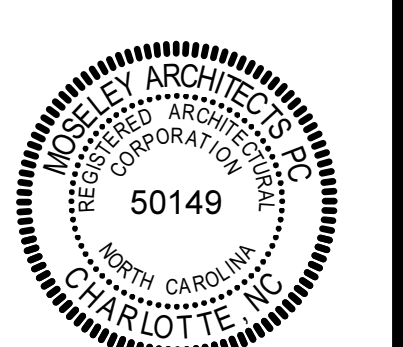
1/8" = 1'-0"

DETENTION EQUIPMENT SCHEDULE				
NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
D1	FEMAL COMBINATION FIXTURE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, SINGLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH	<varies>		SALVAGED SS COUNTER TOP, INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	INCLUDES WALL EMBED PLATE
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI-LIGATURE	REFER TO SHOWER ELEVATIONS		
D17	SAFETY HOOK, SINGLE	PER DETAIL	8/A7.2.1	
D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A.7.2.1 SIM	EXISTING TABLE, RE-INSTALL IN LOCATION SHOWN
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A.7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A.7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		

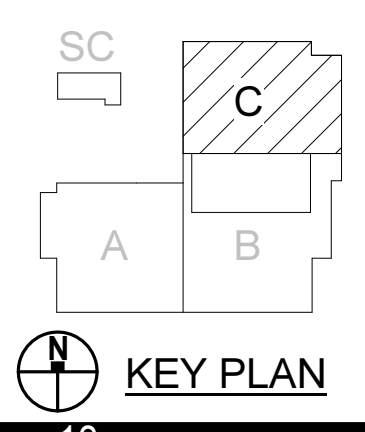
NOTE:  
1. SAND AND REPAINT EXISTING FURNITURE TO BE SALVAGED AND REINSTALLED.

- FLOOR PLAN GENERAL NOTES**
- REMOVE PAINT FROM ALL EXISTING FIRE RATED DOOR AND FRAME LABELS.
  - ALL DOORS AND FRAMES IN RATED WALLS ARE TO BE INSPECTED AND FIELD LABELED TO CODE REQUIRED OPEN PROTECTIVE EQUIVALENT.
  - PROVIDE SMOKE SEALS ON ALL DOORS / FRAMES LOCATED IN SMOKE BARRIER WALLS.
  - ADJUST AND RE-LUBRICATE ALL EXISTING DOOR HARDWARE TO REMAIN AND RETURN TO GOOD WORKING ORDER.
  - CLEAN AND PREPARE ALL DOORS AND FRAMES TO RECEIVE NEW PAINT AS SCHEDULED.

- FLOOR PLAN KEYNOTES**
- REPRESENTED BY [N]  
APPLIES TO DRAWINGS A2.1 - A2.n
- SALVAGED INMATE PHONE PEDESTAL.
  - WALL-MOUNTED TELEVISION (NIC)
  - SALVAGED STAINLESS-STEEL COUNTERTOP, MOUNT AT 2'-8" AFF
  - VIDEO VISITATION STATION
  - INSTALL SECURITY GLAZING AND FOOD PASS AT SHM DOOR.
  - INSTALL SECURITY GLAZING AT SHM DOOR AND FRAME.
  - SPACES TO REMAIN UN-USED AFTER WORK HAS BEEN COMPLETED
  - WIRE MESH PARTITION WITH DOOR, PADLOCK BY OWNER
  - CLEAN ALL REC YARDS OF LEAVES AND DEBRIS. CLEAN OUT ALL CLOGGED FLOOR DRAINS AND REMOVE STANDING WATER. REPAINT EXISTING WINDOW AND DOOR FRAMES & PROVIDE SEALANT AT WINDOW PERIMETER.
  - CONTROL DESK REFER TO SPEC SECTION 125000 FURNITURE
  - INSTALL / APPLY WINDOW FILM TO DOOR AND SIDELITE GLAZING



DATE	REVISIONS	DESCRIPTION
10/13/2025	*AD-02	
11/13/25	*AD-03	



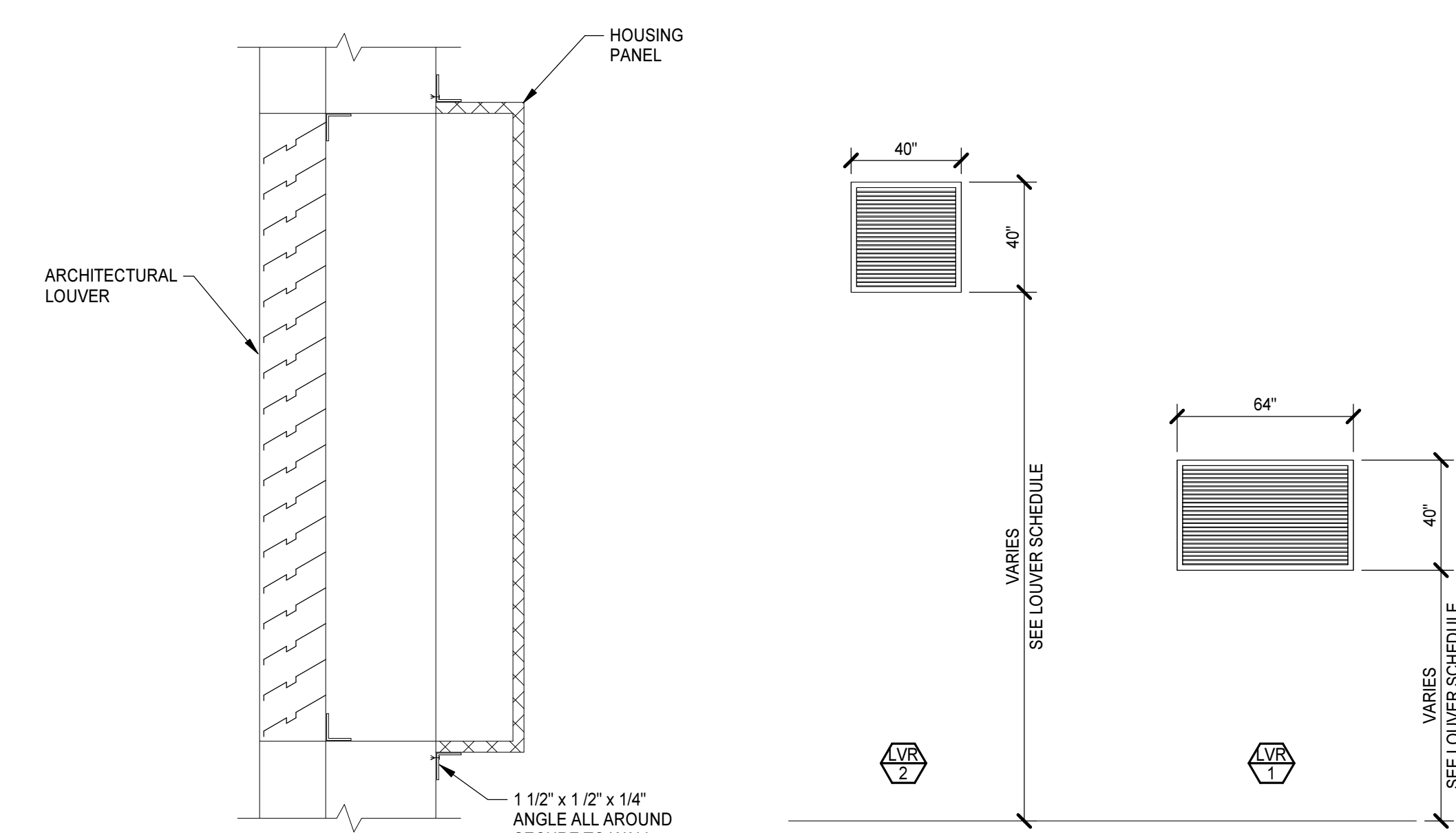
DOOR SCHEDULE													
NUMBER	DOOR TYPE	SIZE (NOMINAL)	DOOR			FRAME			HDWR	FIRE RATING	NOTES		
			MATL	LOUVER	UC	GLAZING TYPE	TYPE	NUMBER				SECTIONS	
117A	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	3	3	2.0	--	1	
122	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	3	3	6.0	45 MIN	2	
141	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	2	1	1	7.0	20 MIN	--	
141AC	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	9.0	--	--	
141A	F	4'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	10.0	20 MIN	--	
178	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	8.0	20 MIN	--	
179	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	8.0	20 MIN	--	
AA3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	7.0	--	--	
AA6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	4.0	--	--	
BB3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	7.0	--	--	
BB6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	4.0	--	--	
CC3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	7.0	--	--	
CC6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	4.0	--	--	
DD3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	7.0	--	--	
DD6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	4.0	--	--	
EE3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	7.0	--	--	
EE6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	4.0	--	--	
FF3	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	7.0	--	--	
FF6	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	4.0	--	--	
K102	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	3.0	--	--	
K103	F	3'-0" x 7'-0" x 1 3/4"	STL	--	--	ETR	2	1	1	5.0	--	--	
K104	F	3'-0" x 7'-0" x 1 3/4"	STL	--	3/4"	ETR	1	1	1	8.0	20 MIN	--	
L103	F	2'-0" x 5'-0" x 1 3/4"	STL	--	--	ETR	1	1	1	8.0	20 MIN	--	

NOTE:  
1. PANIC HARDWARE  
2. EXISTING FRAMES TO REMAIN

EXISTING DOOR REPAIR SCHEDULE													
NUMBER	DOOR TYPE	GLAZING TYPE	TYPE	NUMBER	SECTIONS	FRAME			HDWR	FIRE RATING	NOTES		
						HEAD DETAIL	JAMB DETAIL	SILL DETAIL					
107	C2	ETR	1	ETR	1	ETR	ETR	ETR	12.0	20 MIN	10		
112	N2	ETR	2	ETR	1	ETR	ETR	ETR	12.0	1 1/2 HR	10		
113EX	C2	ETR	2	ETR	7	ETR	ETR	ETR	12.0	--	10		
114	F	ETR	--	ETR	ETR	ETR	ETR	ETR	12.0	1 1/2 HR	15		
117	F	ETR	--	ETR	1	ETR	ETR	ETR	9.0	20 MIN	14		
123	G	ETR	2	ETR	4	ETR	ETR	ETR	12.0	20 MIN	10		
130	F	ETR	--	ETR	ETR	ETR	ETR	ETR	10.0	--	15		
131	G	ETR	ETR	ETR	ETR	ETR	ETR	ETR	10.0	--	15		
151	F	ETR	--	ETR	1	ETR	ETR	ETR	3.0	--	15		
AA	C2	ETR	2	ETR	8	ETR	ETR	ETR	12.0	20 MIN	12		
AA4	C2	ETR	1	ETR	8	ETR	ETR	ETR	12.0	--	16		
AA5	C2	ETR	3	ETR	6	ETR	ETR	ETR	12.0	--	11		
AA-M	F	ETR	--	ETR	1	ETR	ETR	ETR	11.0	--	13		
BB	C2	ETR	2	ETR	9	ETR	ETR	ETR	12.0	20 MIN	12		
BB4	C2	ETR	1	ETR	9	ETR	ETR	ETR	12.0	--	12		
BB5	C2	ETR	3	ETR	5	ETR	ETR	ETR	12.0	--	11		
BB-M	F	ETR	--	ETR	1	ETR	ETR	ETR	11.0	--	13		
CC	C2	ETR	2	ETR	8	ETR	ETR	ETR	12.0	20 MIN	12		
CC4	C2	ETR	1	ETR	8	ETR	ETR	ETR	12.0	--	12		
CC5	C2	ETR	3	ETR	6	ETR	ETR	ETR	12.0	--	11		
DD	C2	ETR	2	ETR	9	ETR	ETR	ETR	12.0	20 MIN	12		
DD4	C2	ETR	1	ETR	9	ETR	ETR	ETR	12.0	--	12		
DD5	C2	ETR	3	ETR	5	ETR	ETR	ETR	12.0	20 MIN	11		
DD-M	F	ETR	--	ETR	1	ETR	ETR	ETR	11.0	--	13		
EE	C2	ETR	2	ETR	8	ETR	ETR	ETR	12.0	20 MIN	12		
EE4	C2	ETR	1	ETR	8	ETR	ETR	ETR	12.0	--	12		
EE5	C2	ETR	3	ETR	6	ETR	ETR	ETR	12.0	--	11		
FF	C2	ETR	2	ETR	9	ETR	ETR	ETR	12.0	20 MIN	12		
FF4	C2	ETR	1	ETR	9	ETR	ETR	ETR	12.0	--	12		
FF5	C2	ETR	3	ETR	5	ETR	ETR	ETR	12.0	--	11		
FF-M	F	ETR	--	ETR	1	ETR	ETR	ETR	11.0	--	13		

NOTE:  
10. PROVIDE GLAZING IN EXISTING DOOR AND FRAME  
11. EXISTING DOOR TO REMAIN. REPLACE GLAZING. RE-CAULK & REPAINT EXTERIOR  
12. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING WITH SECURITY GLAZING  
13. PROVIDE CLOSER PER HARDWARE SCHEDULE  
14. EXISTING DOOR TO REMAIN PROVIDE CLOSER AND COORDINATOR. PANIC HARDWARE PER HARDWARE SCHEDULE  
15. EXISTING DOOR TO REMAIN. PROVIDE LOCKSET PER HARDWARE SCHEDULE  
16. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING WITH SECURITY GLAZING AND APPLY PRIVACY FILM  
17. EXISTING DOOR TO REMAIN. REPLACE EXISTING GLAZING AND EXISTING FOOD PASS

LOUVER SCHEDULE				
MARK	LEVEL	ELEVATION FROM LEVEL TO SILL	SIZE	
1	LEVEL 1	8'-0"	64"x40"	
1	EQUIPMENT PLATFORM	4'-6"	64"x40"	
2	EQUIPMENT PLATFORM	4'-6"	40"x40"	



4 WALL LOUVER DETAIL  
A3.2.1 1" = 1'-0"

LOUVER TYPES

### GENERAL NOTES

A. UNLESS INDICATED OTHERWISE, ALL DETAIL NUMBERS IN THE DOOR AND FRAME SCHEDULE FOR HEAD, JAMB AND SILL CONDITIONS REFER TO DRAWINGS A3.2.1

B. DOOR AND FRAME DETAILS INDICATE GENERAL CHARACTERISTICS OF DOOR AND FRAME SIZES AND COMPONENTS AND MAY NOT INDICATE EXACT FIELD CONDITIONS OR REQUIREMENTS. COORDINATE DETAILS WITH OTHER DRAWINGS AND SPECS TO DETERMINE ALL COMPONENTS (E.G. SEALANTS, ANCHORS, HARDWARE, LINTELS, CLIPS) REQUIRED FOR COMPLETE AND FUNCTIONAL INSTALLATION.

C. DOOR SWINGS ON FLOOR PLANS TAKE PRECEDENCE OVER SWINGS INDICATED ELSEWHERE (E.G., ELEVATIONS).

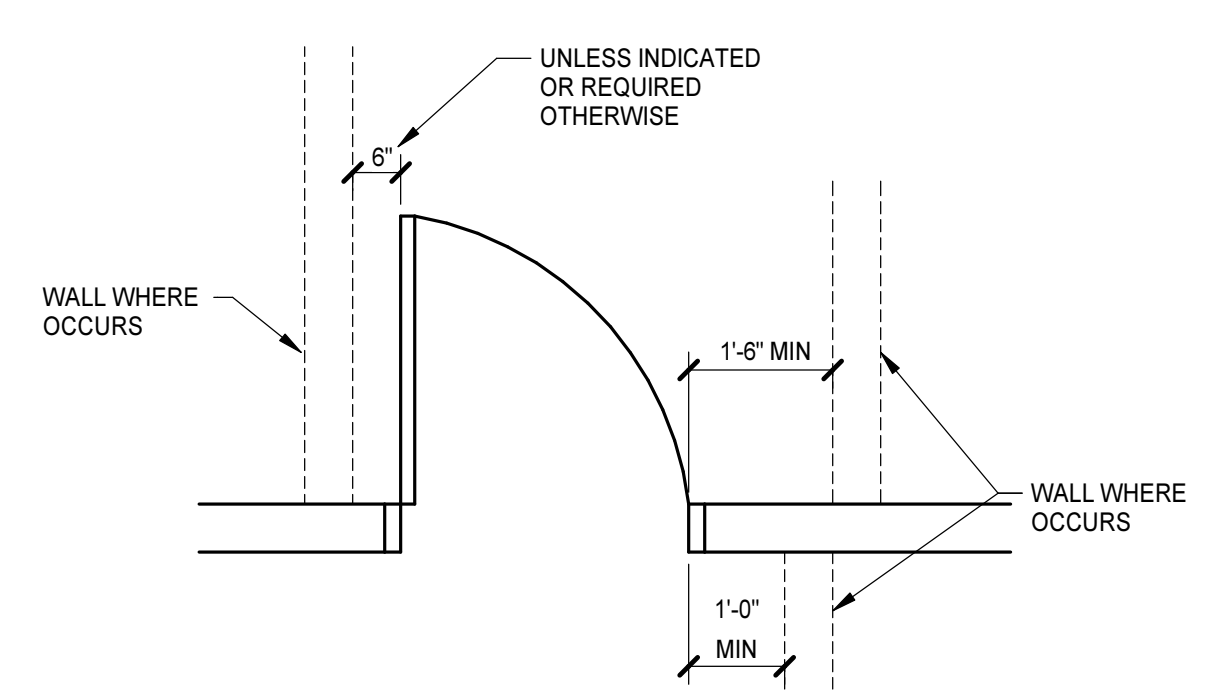
D. INSTALL LABELS ON ALL FIRE-RATED DOORS AND FRAMES WHERE MISSING

E. INSTALL SMOKE SEALS ON ALL DOOR FRAMES LOCATED WITHIN SMOKE BARRIERS. SEE ALSO SHEET LS.1.

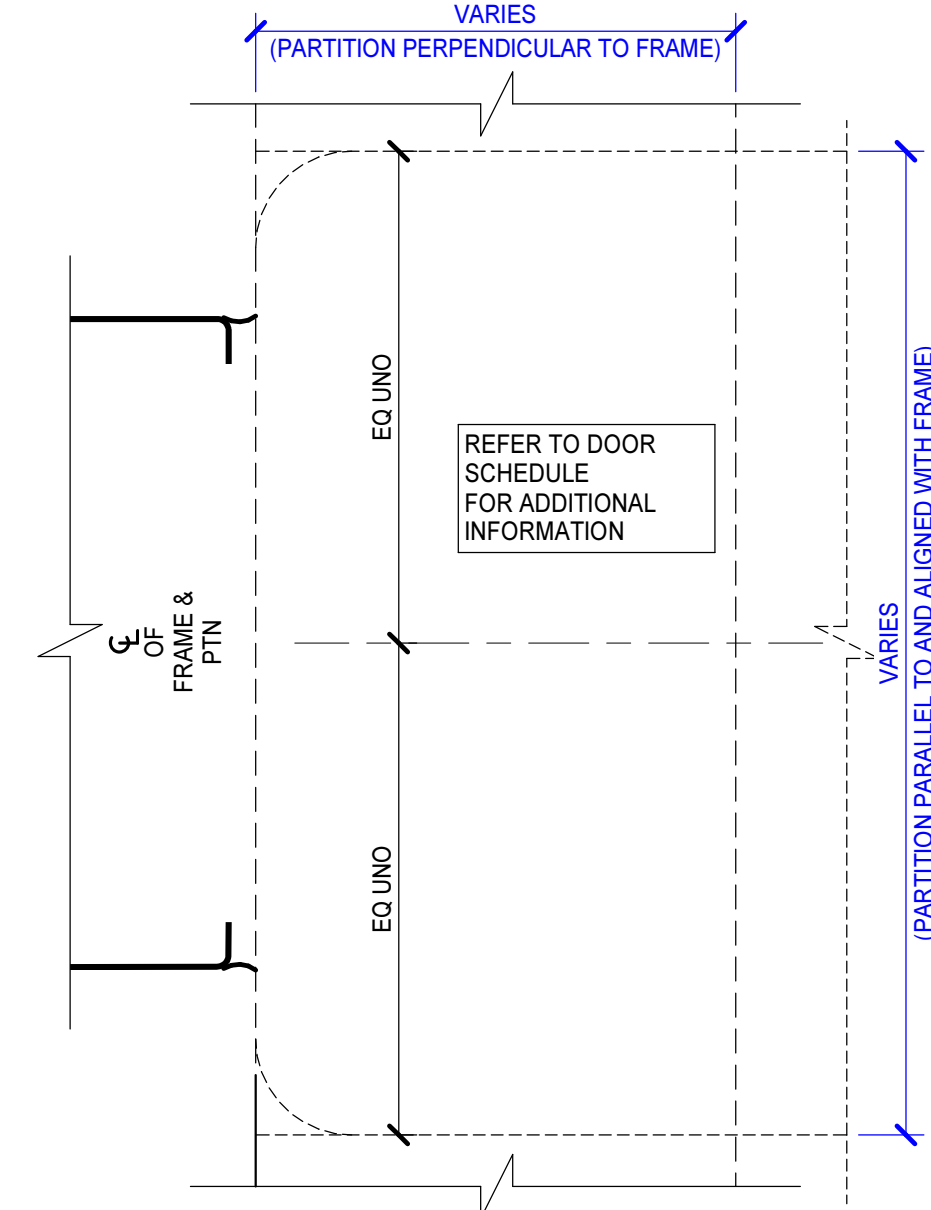
F. ADJUST AND RE-LUBRICATE ALL EXISTING DOOR HARDWARE TO REMAIN

G. REMOVE ERRANT PAINT HIDING THE EXISTING FIRE RATING LABELS ON DOORS AND FRAMES

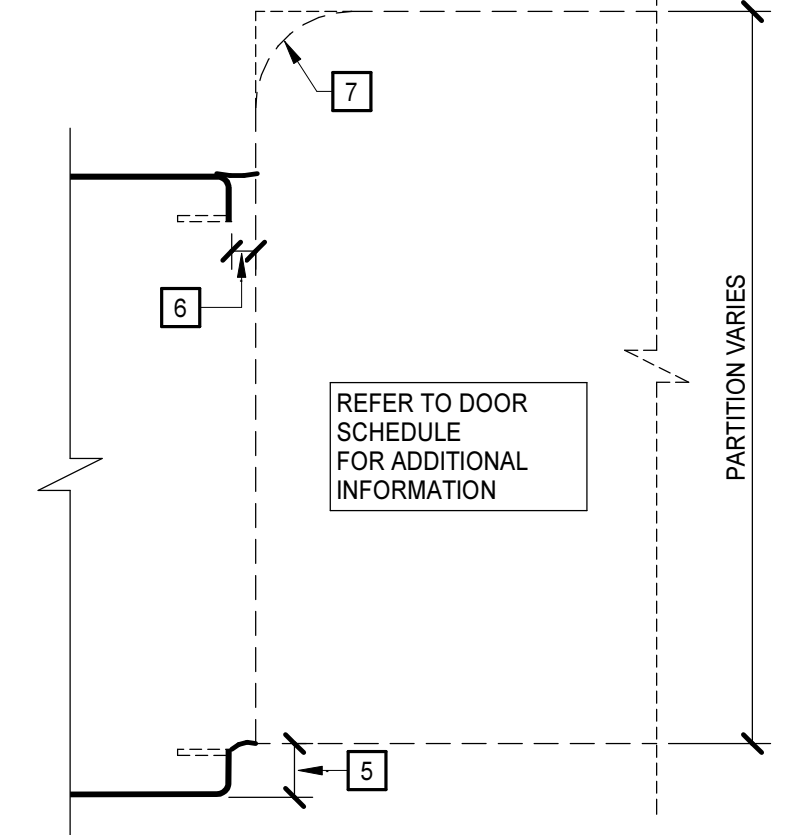
H. EXISTING DOOR AND FRAME TO BE TESTED AND FIELD LABELED TO ACHIEVE REQUIRED FIRE RATING



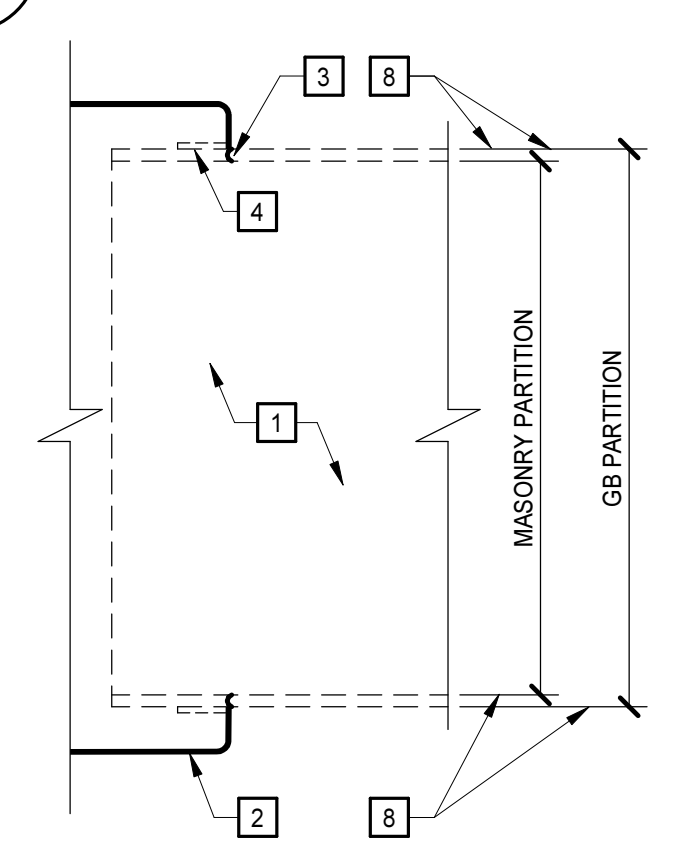
MANEUVERING CLEARANCE AT DOORS  
NO SCALE



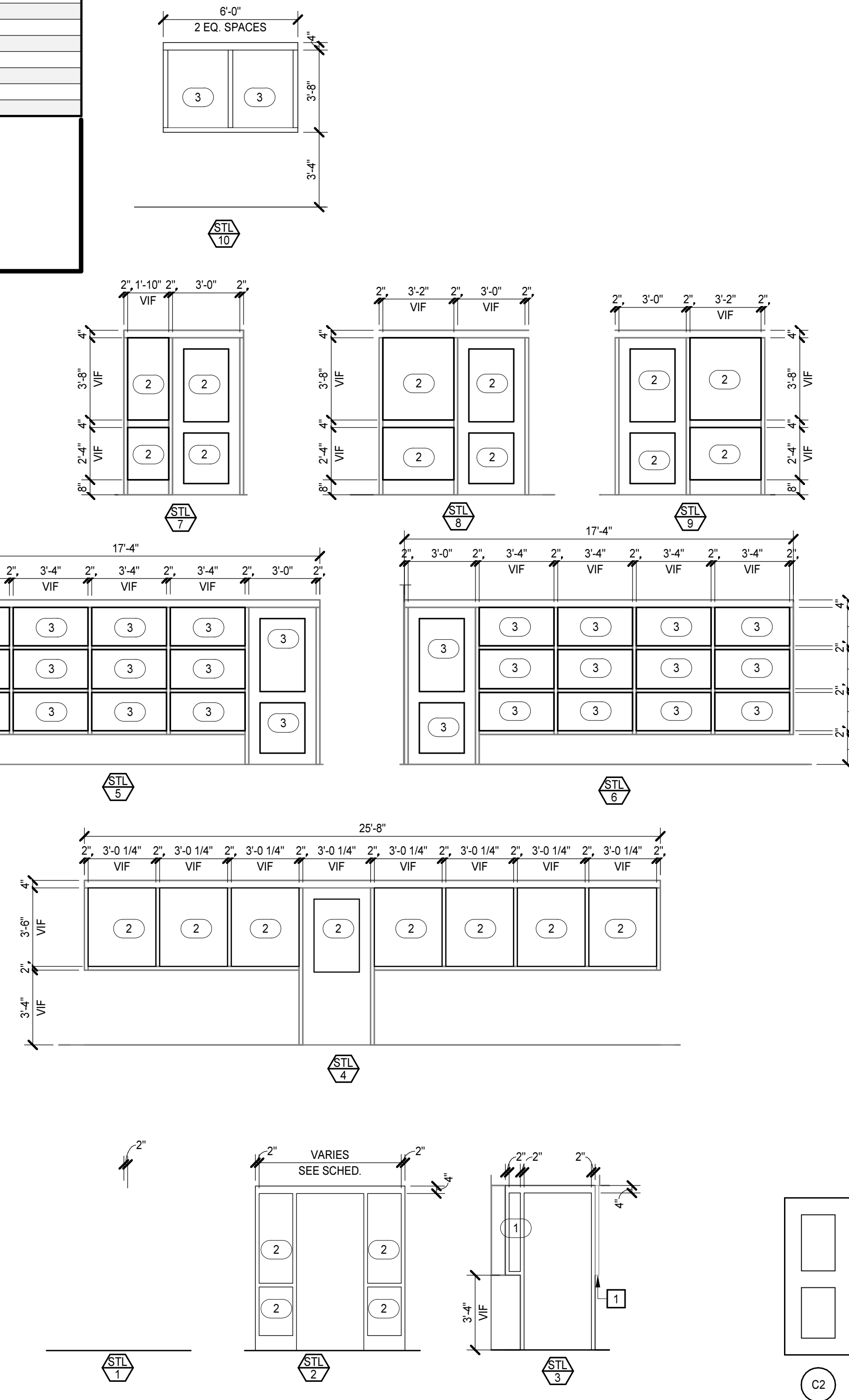
3 INTERIOR BETWEEN THE JAMB - BUTTED HEAD/JAMB/SILL  
A3.2.1 6" = 1'-0"



2 INTERIOR BETWEEN THE JAMB - PROJECTED HEAD/JAMB/SILL  
A3.2.1 6" = 1'-0"



1 INTERIOR WRAP HEAD/JAMB/SILL  
A3.2.1 6" = 1'-0"



STEEL FRAME TYPES

DOOR TYPES

### GENERAL NOTES

REFER TO DWG A3.2.n FOR GLAZING TYPE LEGEND AND NOTES

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

REFER TO DWG A3.2.n FOR KEYNOTE LEGEND

A. PROVIDE GLAZING ANGLES/ STOPS WHEN THE THICKNESS OF GLAZING VARIES FROM THE EXISTING GLAZING THICKNESS.

### GLAZING TYPES

REPRESENTED BY [n]

- SG-2P
- SG-16F
- INSG-1

NOTES:  
REFERENCE DETENTION GLAZING TYPES - SHEET A3.3.1

### DOOR, FRAME AND GLAZING TYPE KEYNOTES

REPRESENTED BY [n]

APPLIES TO DRAWINGS A3.2.1 - A3.2.n

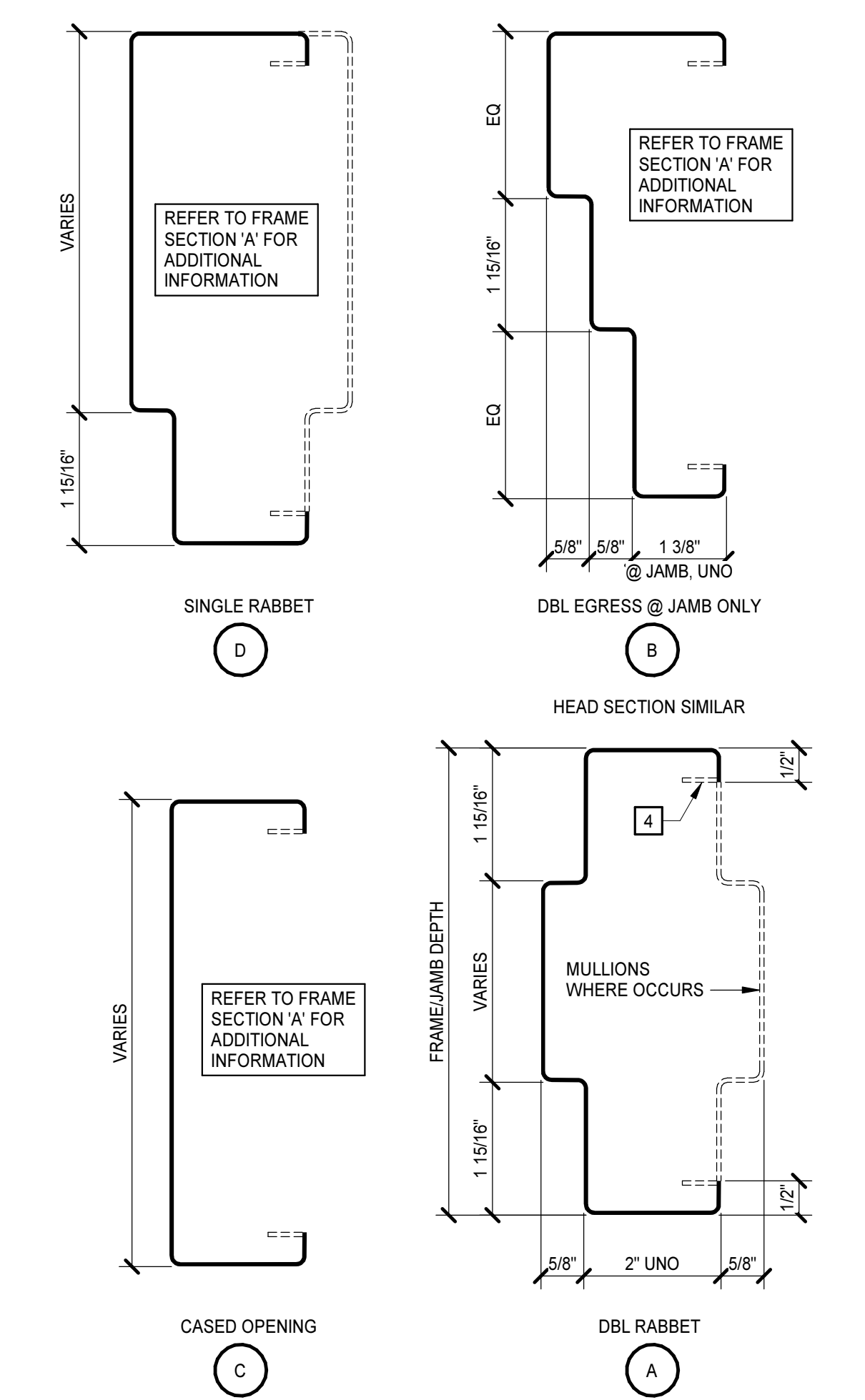
- EXISTING JAMB TO REMAIN

### DOOR AND FRAME DETAIL KEYNOTES

REPRESENTED BY [n]

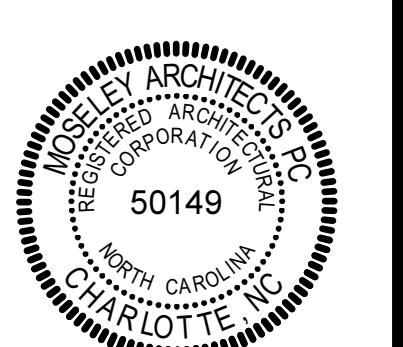
APPLIES TO DRAWINGS A3.2.1 - A3.2.n

- ANCHORAGES, REINFORCING, SPECIFIC PARTITION CONSTRUCTION AND/OR LINTELS ARE NOT SHOWN FOR CLARITY.
- REFER TO FRAME SECTION IN DOOR SCHEDULE FOR TYPE.
- SEALANT, ALL SIDES - TOOL TO 90°.
- BACKBEND RETURN @ GB LOCATIONS ONLY.
- 9/16" @ MAS, 1/2" @ GB
- 1/4" @ JAMBS, UNO, DIMENSION @ HEAD & SILL VARIES.
- BULLNOSE @ CMU JAMBS & SILLS.
- 0" @ GB LOCATIONS, 1/16" @ MAS LOCATIONS.



STEEL FRAME SECTIONS  
NO SCALE

**MOSELEY ARCHITECTS**  
6210 ARDREY KELL ROAD - THE HUB AT WAWERLY, SUITE 425 - CHARLOTTE, NC 28277  
PHONE (704) 546-3155 FAX (704) 546-3154  
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J-397-SJD/DWC

PROJECT NO.	DATE	REVISIONS
642088	10/13/2025	

PROJECT NO: 642088  
DATE: 10/13/2025  
REVISIONS:  
DATE DESCRIPTION  
11/13/25 \*AD-03

DOOR & FRAME DETAILS, SCHEDULE, LOUVER & GLAZING TYPES  
**A3.2.1**



PROJECT NO:	642088
DATE:	10/19/2025
REVISIONS	
DATE	DESCRIPTION
10/27/25	*AD-01
11/01/25	*AD-02
11/13/25	*AD-03

TOILET ASSEMBLIES,  
 SCHEDULE AND  
 ENLARGED PLANS

**TOILET ASSEMBLIES, SCHEDULE AND ENLARGED PLAN GENERAL NOTES**

A. PLAN DIMENSIONS ARE TO FACE OF WALL OR PARTITION. WHERE APPLIED FINISHES OCCUR SUCH AS CERAMIC TILE, DIMENSIONS ARE TO FACE OF APPLIED FINISH. FOR WAINSCOTS, FLOOR PLAN DIMENSIONS ARE TO FACE OF WAINSCOT MATERIAL. APPLIED FINISHES ARE NOT ALLOWED TO REDUCE CLEAR DIMENSIONS. 'APPLIED FINISHES' IN THIS CASE DO NOT INCLUDE TRIM, BASE, AND ACOUSTIC WALL PANELS.

B. CLEAR DIMENSIONS ARE TO FACE OF APPLIED WALL AND PARTITION FINISHES.

**TOILET ASSEMBLIES**  
 APPLIES TO DRAWINGS A7.1 - A7.m  
 REPRESENTED BY (TA)

MARK	REMARKS	PLAN	TOILET ASSEMBLY
TA7	BARRIER FREE		TA12
TA8	BARRIER FREE OMIT (E)		TA13
TA11	CENTER OVER LAVATORY		

**LEGEND NOTES:**

A. HANDING/ORIENTATION MAY VARY. REFER TO PLANS FOR PROPER ORIENTATION.

B. PLUMBING FIXTURE GRAPHICS IN THIS LEGEND ARE REPRESENTATIVE ONLY. ACTUAL PLUMBING FIXTURES MAY VARY.

C. COAT/ROBE HOOKS INDICATED ON THE BACK OF TOILET COMPARTMENT DOORS ARE PART OF THE TOILET COMPARTMENT ASSEMBLY AND ARE NOT CONSIDERED A TOILET ACCESSORY.

**TOILET ACCESSORIES SCHEDULE**

MARK	DESCRIPTION	MOUNTING HEIGHT	REMARKS
A	36" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
B	42" HORIZONTAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
C	18" VERTICAL GRAB BAR	REFER TO WATER CLOSET ELEVATIONS	
D	TOILET TISSUE DISPENSER	REFER TO WATER CLOSET ELEVATIONS	
E	SANITARY NAPKIN DISPOSAL	REFER TO WATER CLOSET ELEVATIONS	
F	SOAP DISPENSER	3'-4" AFF TO DISPENSING OUTLET	
G	MIRROR (18" x 36"), OVER LAV AND COUNTERTOP	3'-4" AFF TO BOTTOM OF REFLECTIVE SURFACE	

1. ACCESSORY ITEMS ARE IDENTIFIED BY ( ) ON PLANS. LETTERS CORRESPOND TO SCHEDULE ABOVE.

2. ACTUAL DIMENSIONS OF ACCESSORIES MAY VARY. COORDINATE DIFFERENCES, IF ANY.

3. REFER TO ALL CASEWORK ELEVATIONS FOR ADDITIONAL TOILET ACCESSORY LOCATIONS.

4. PROVIDE MOP AND BROOM HOLDER W/ SHELF ( ) AT ALL CUSTODIAL/JANITORIAL SINKS. MOUNT AT 5'-0" AFF TO CENTERLINE AND LOCATE ON SIDE WALL OF SINK (NOT ON WALL ABOVE FAUCET).

5. PROVIDE ROBE HOOK ON INTERIOR FACE OF ALL TOILET ROOM DOORS WHEREIN ONLY ONE WATER CLOSET IS PROVIDED. MOUNT AT 3'-11" AFF TO TOP.

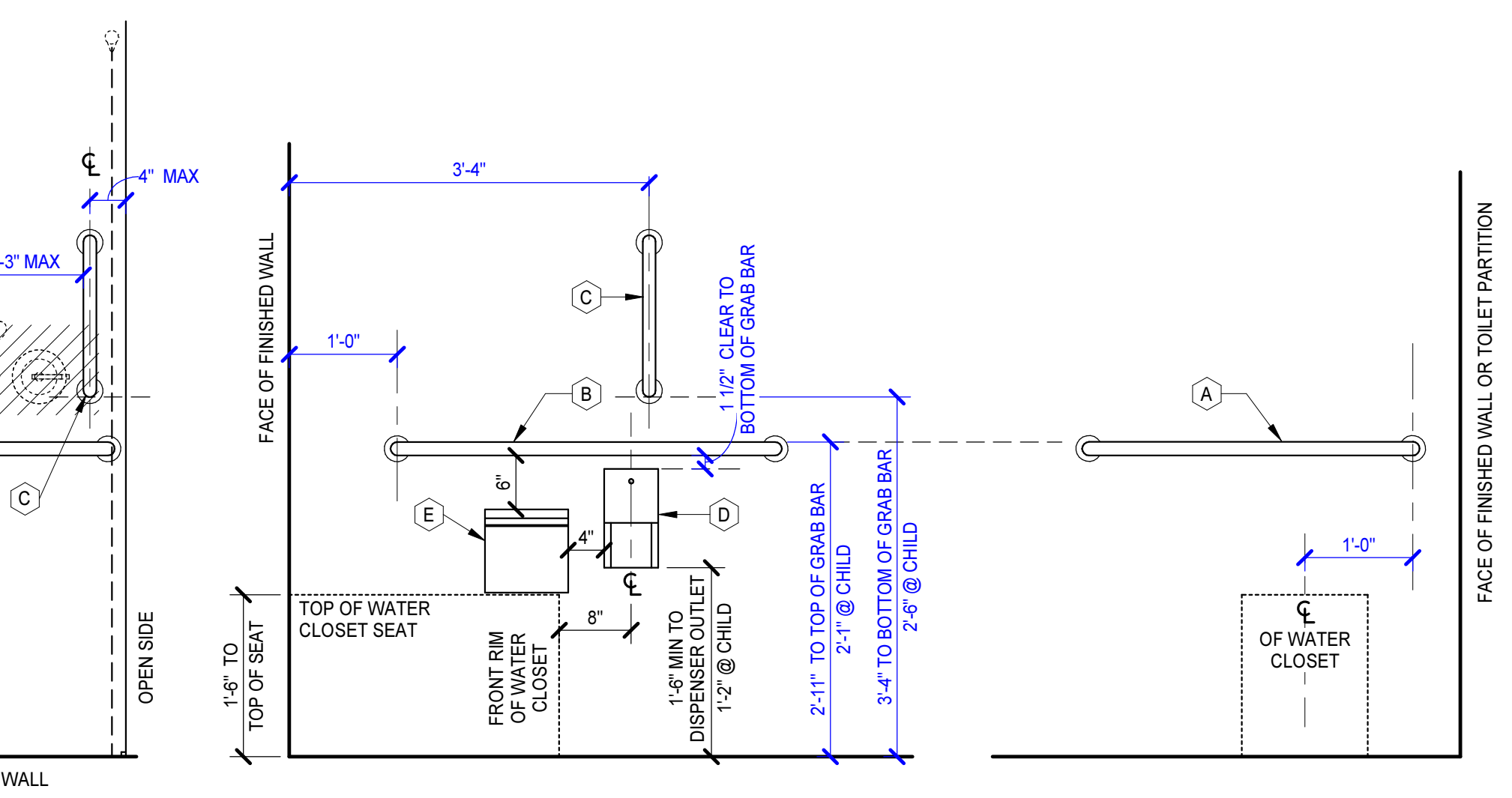
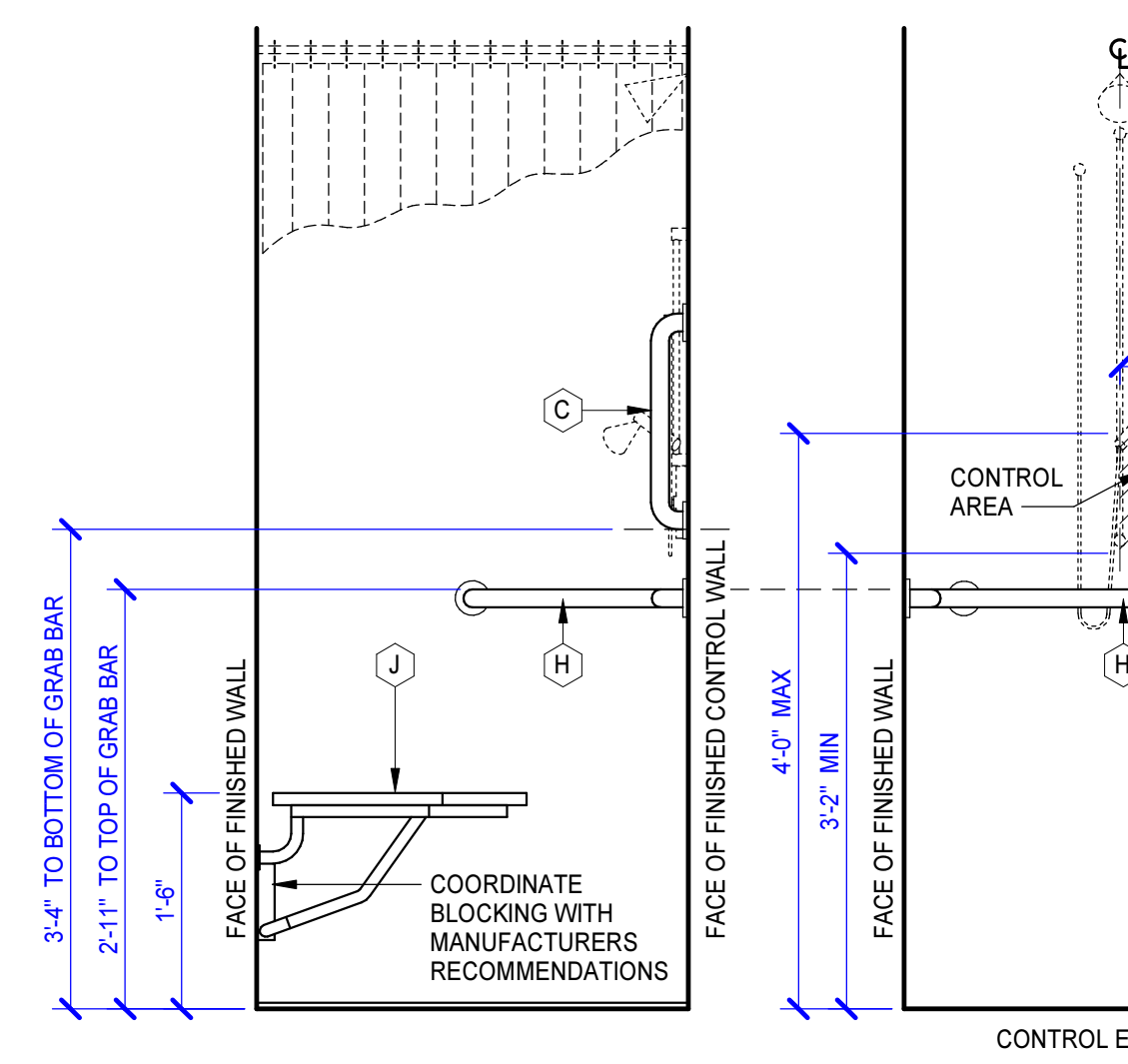
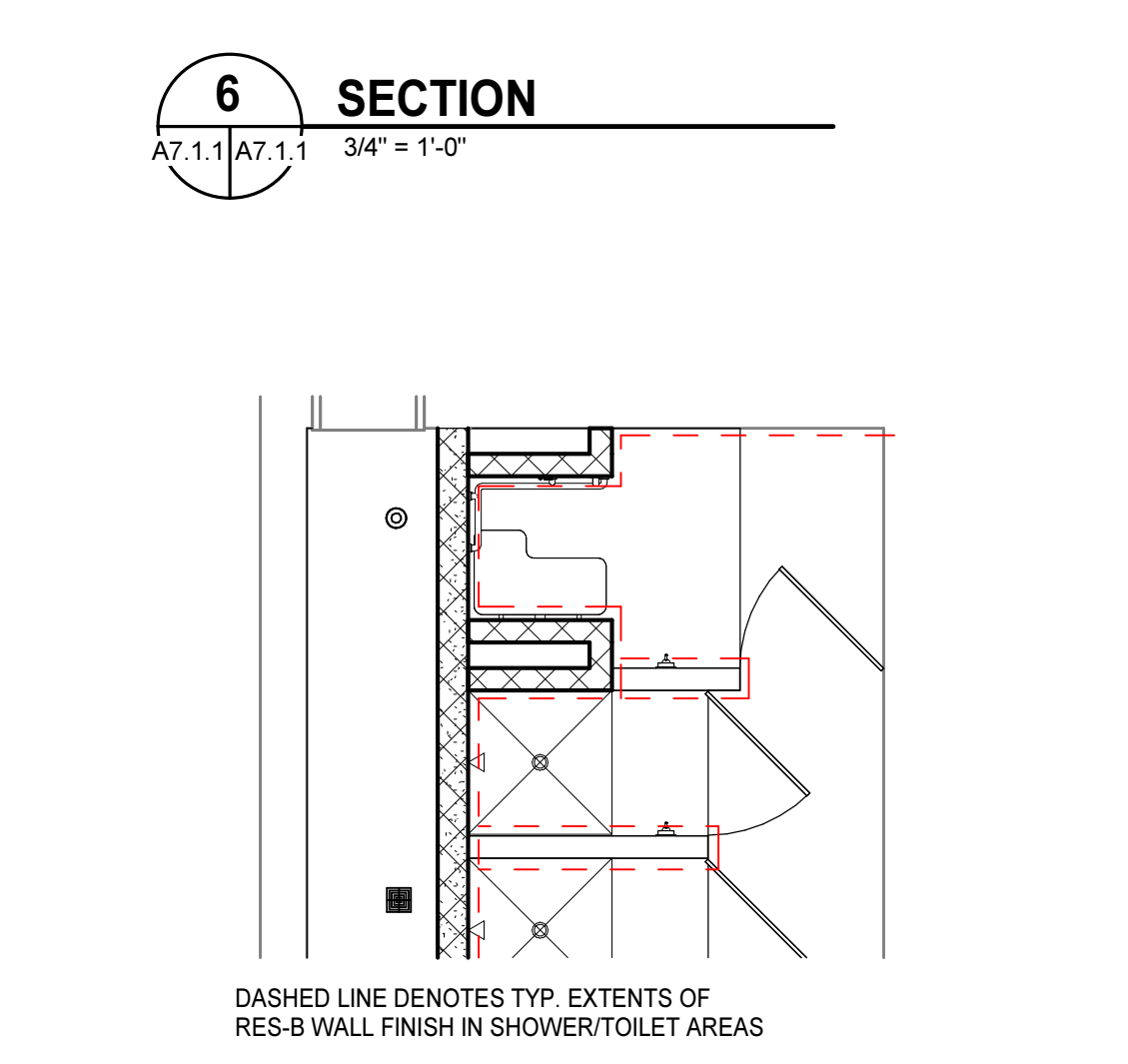
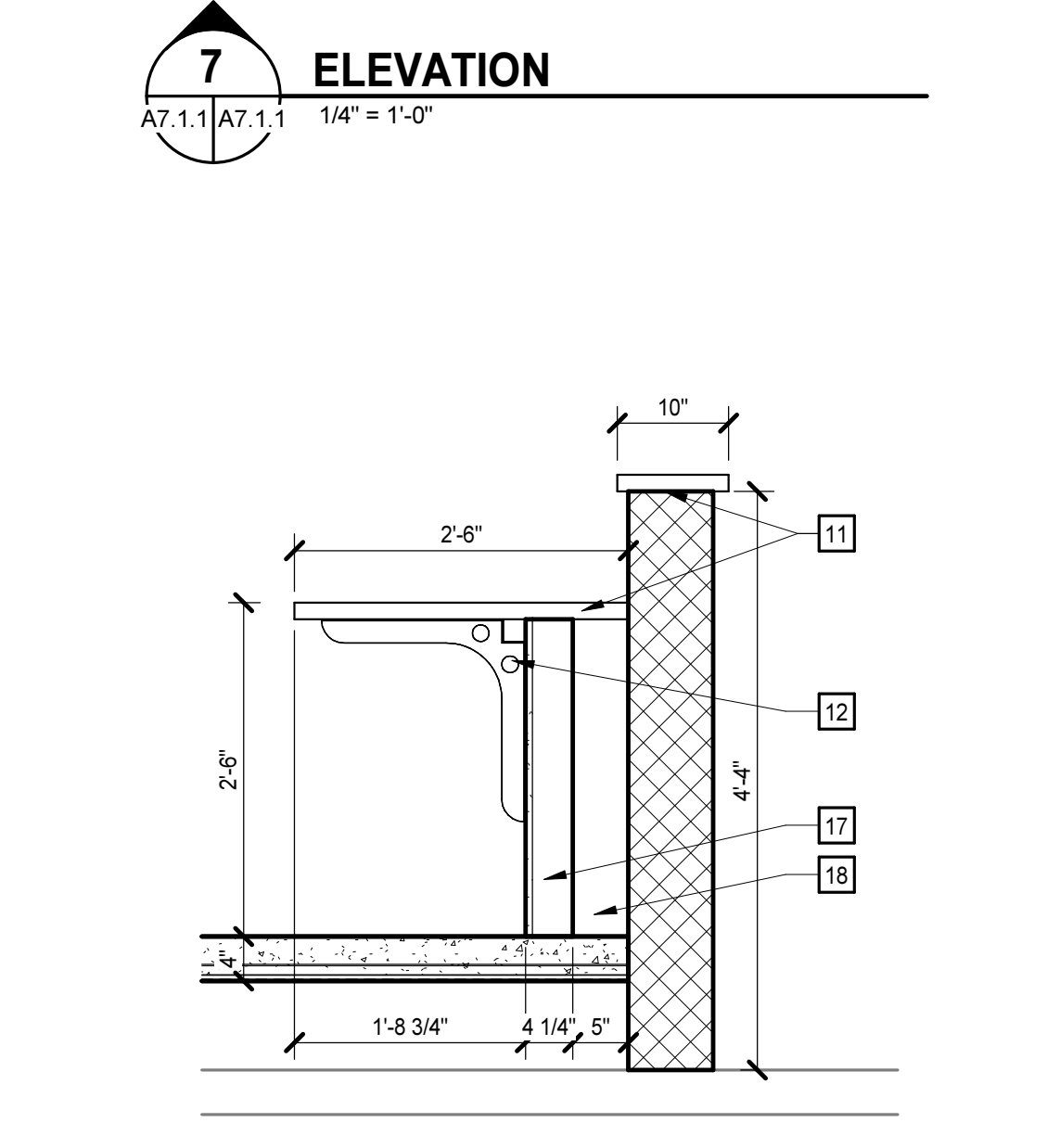
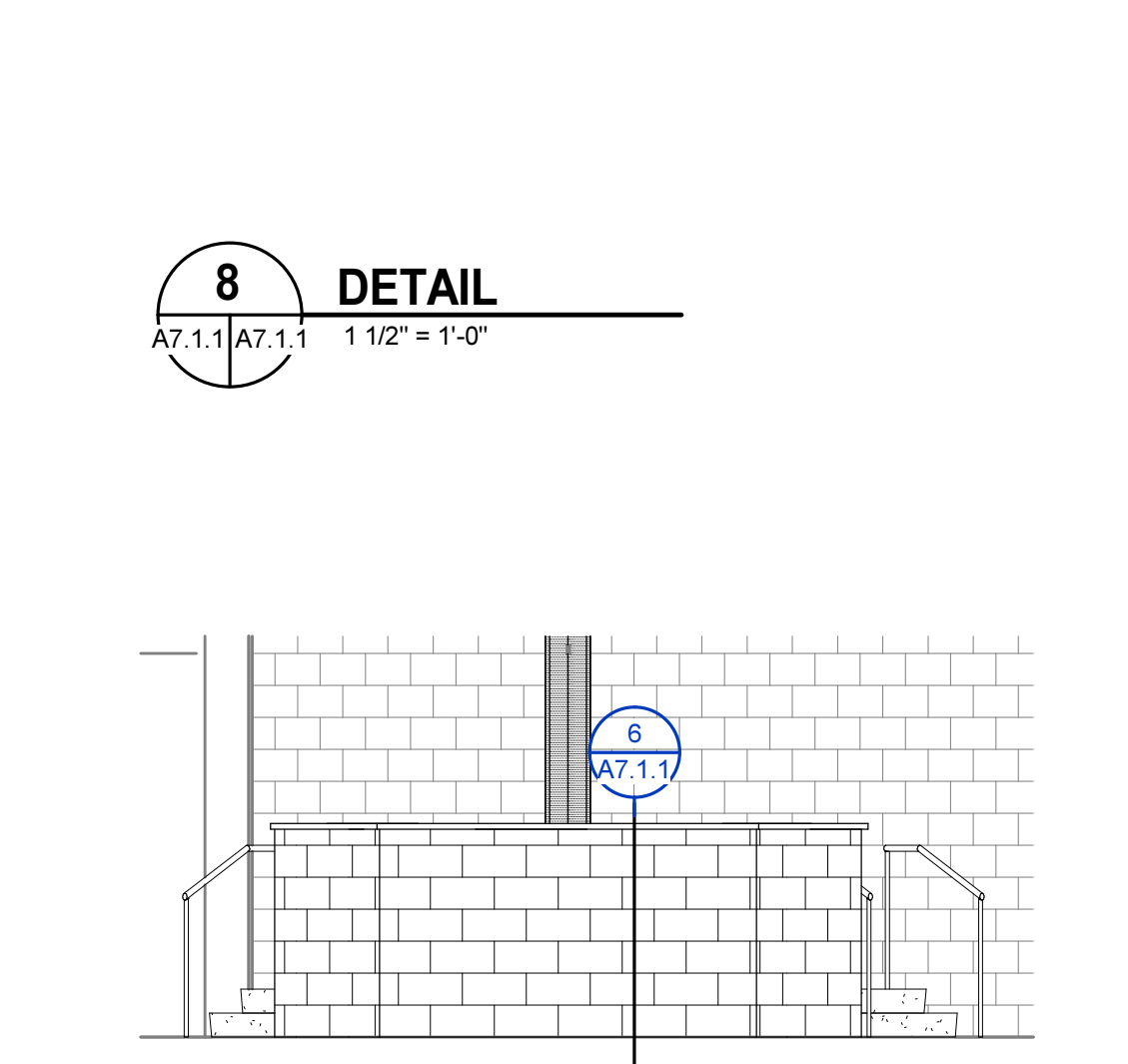
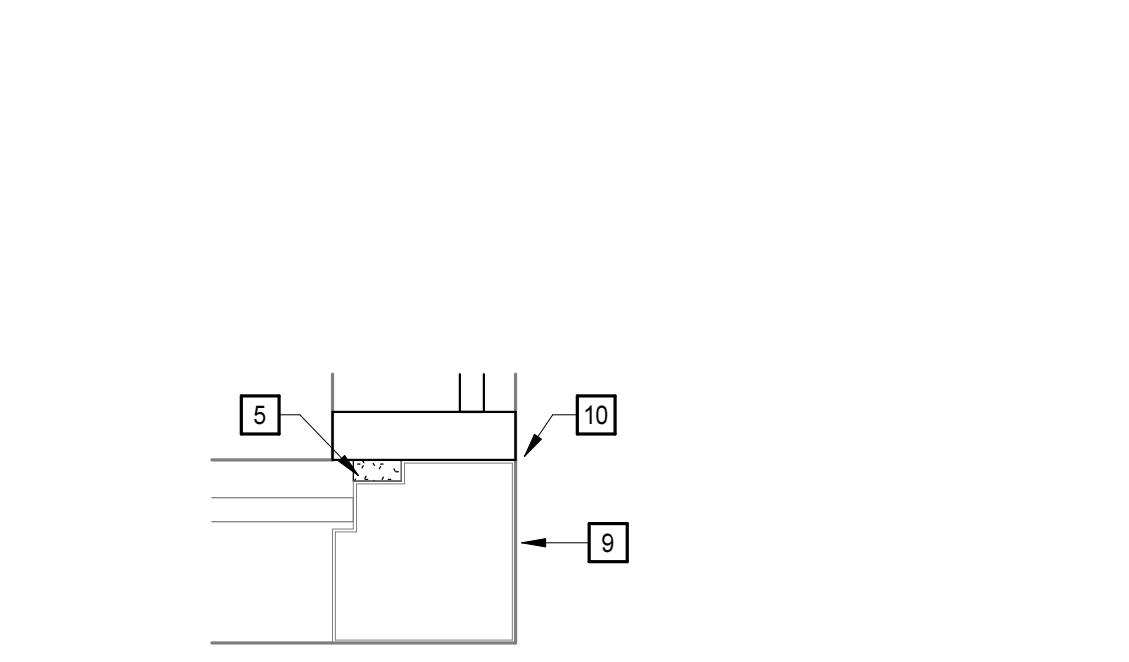
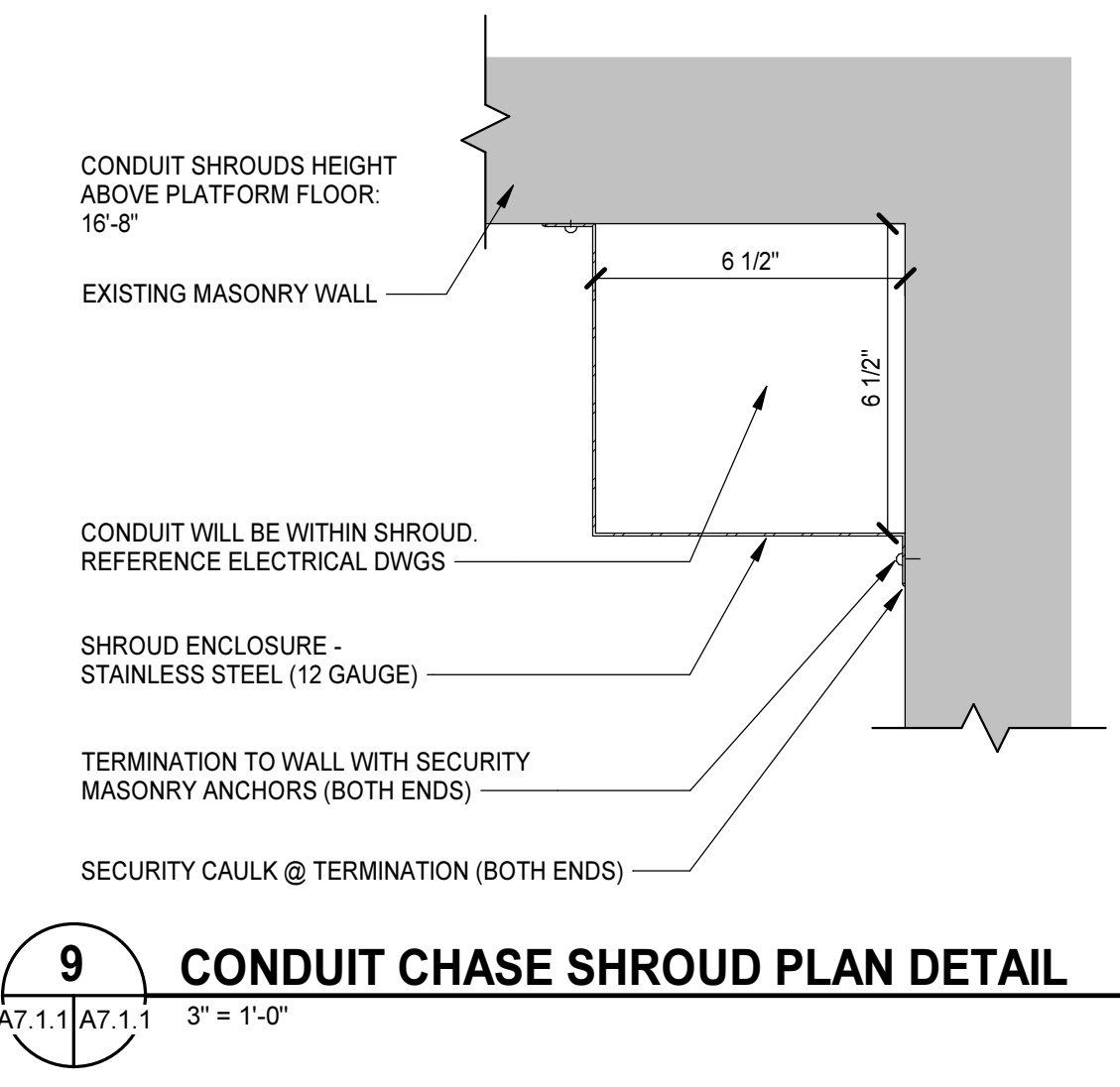
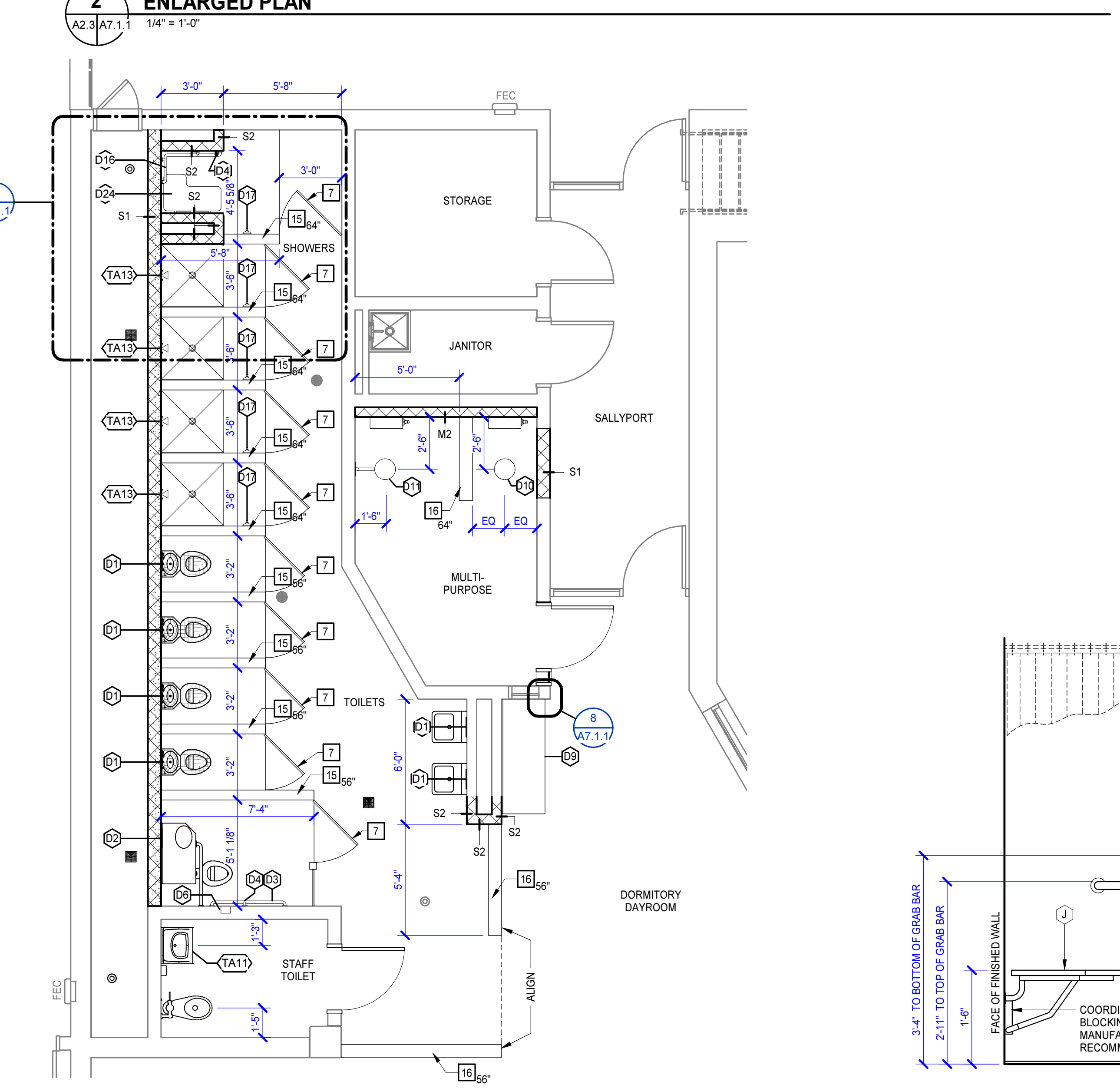
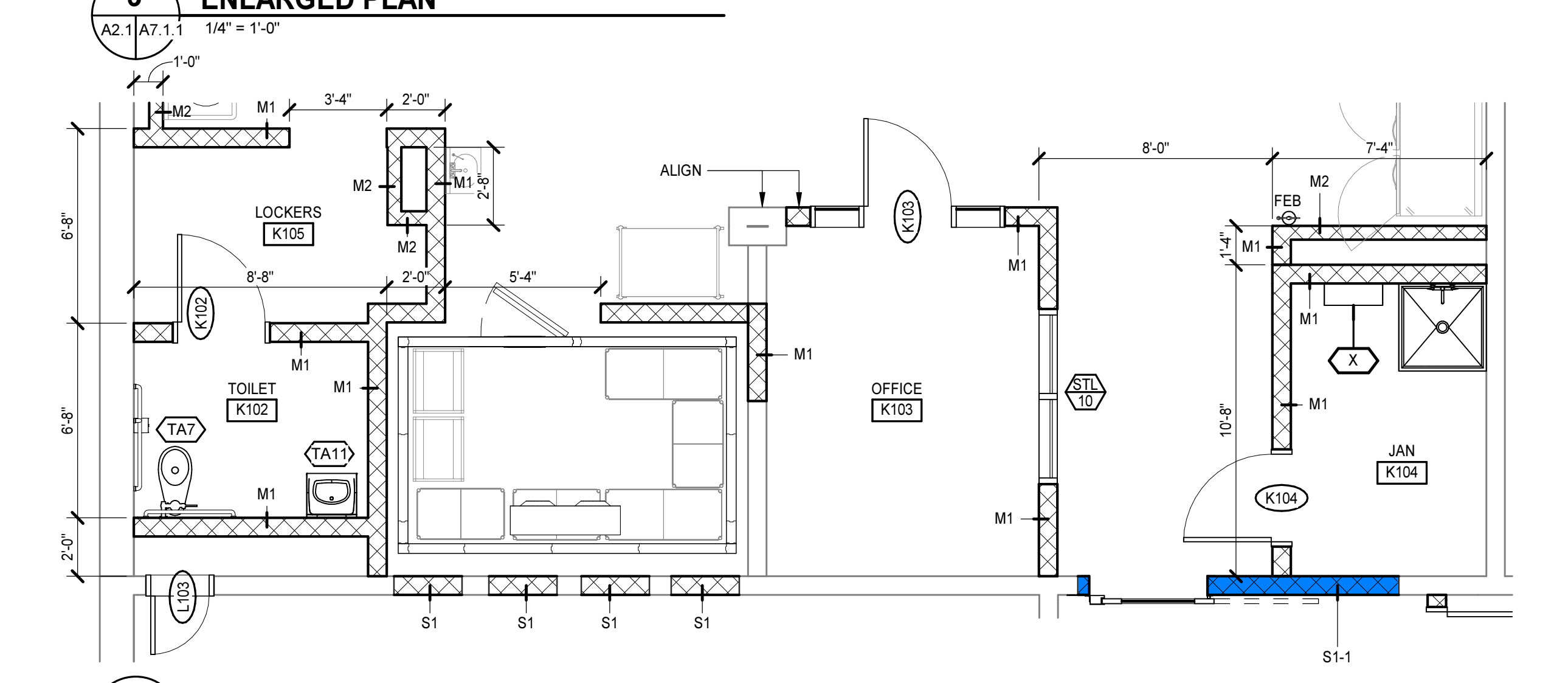
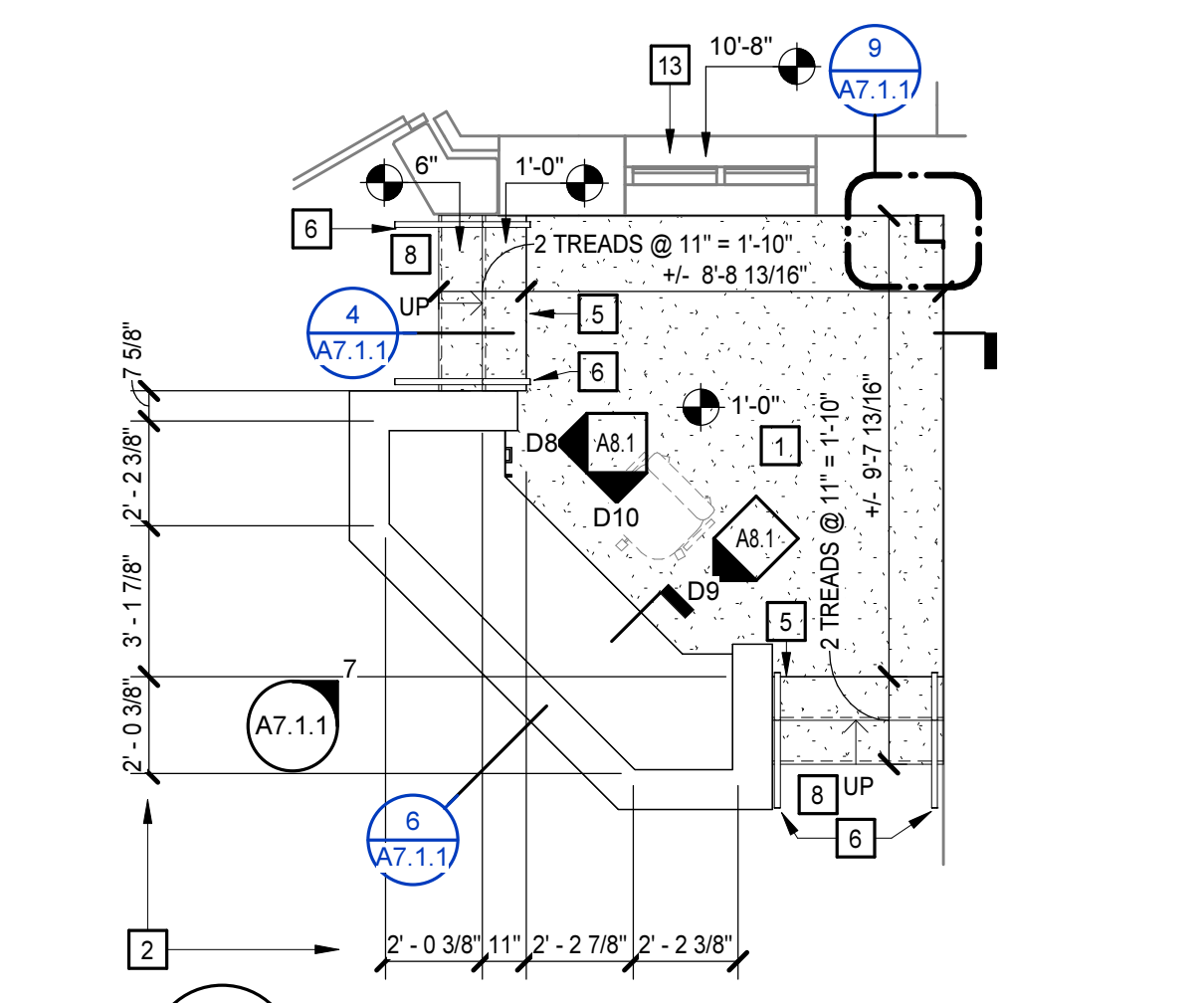
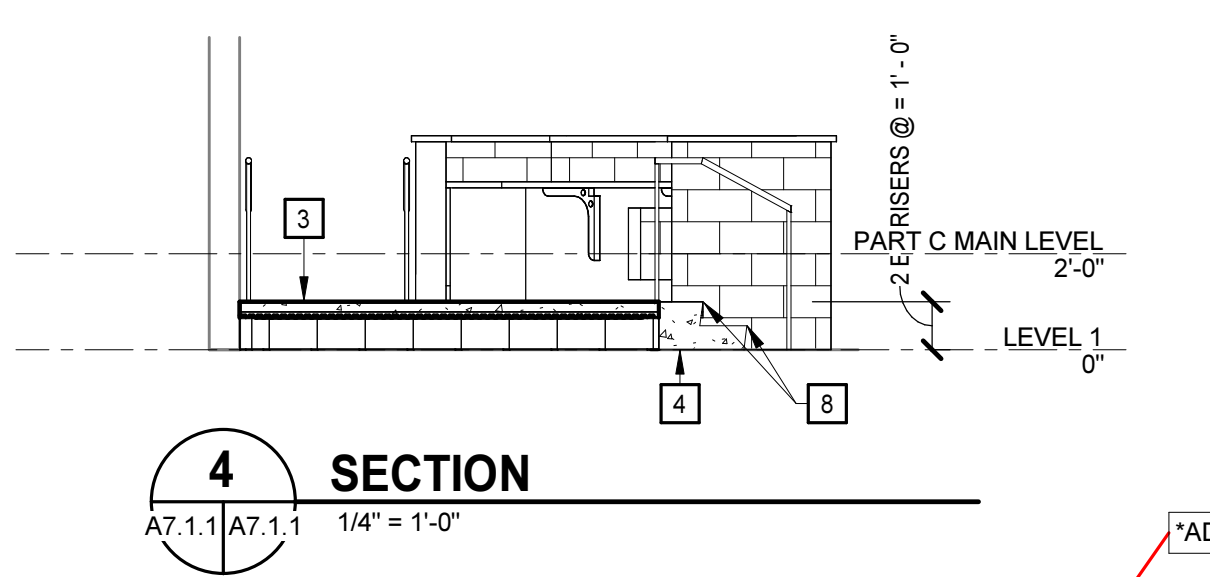
**DETENTION EQUIPMENT SCHEDULE**

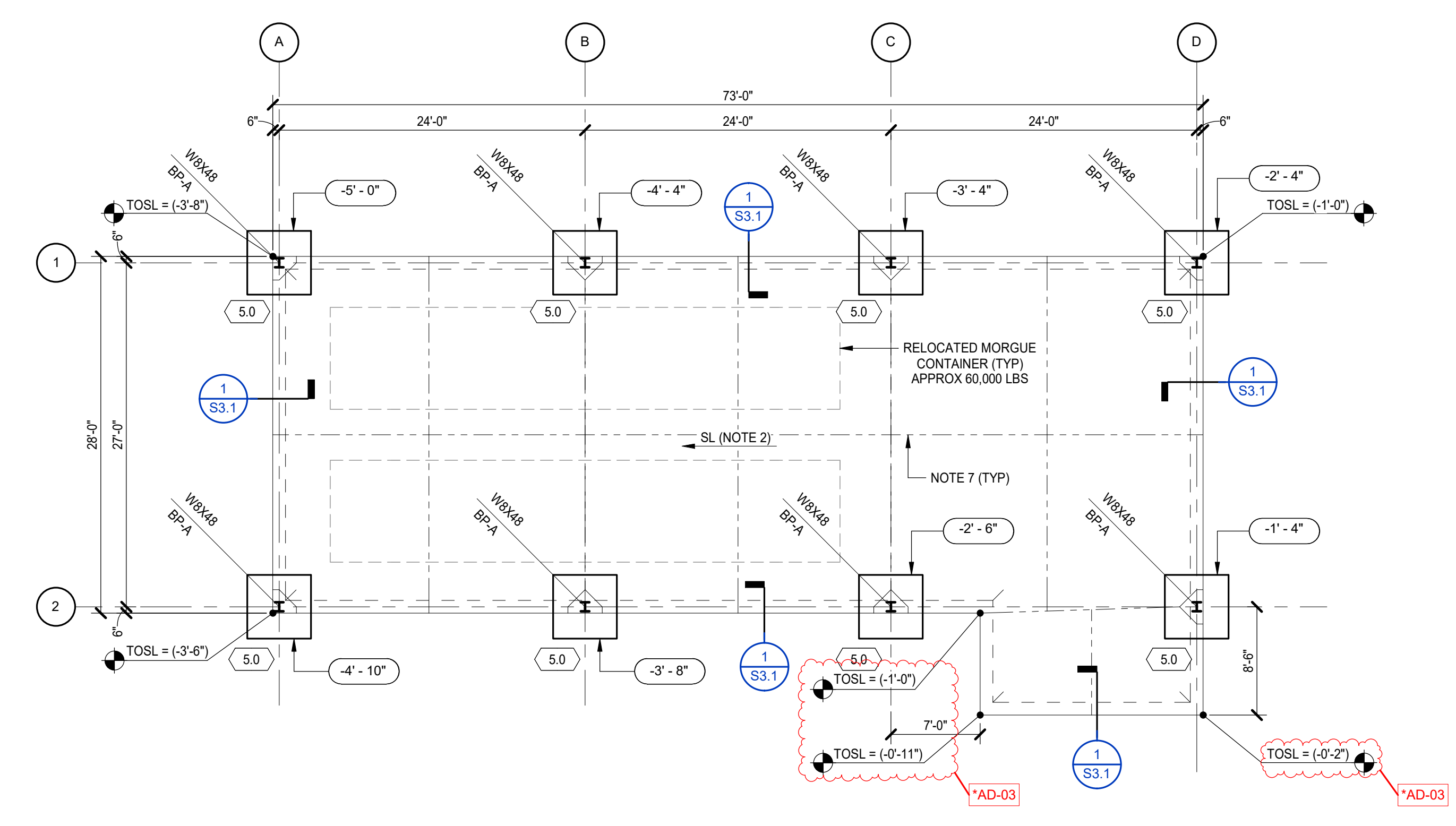
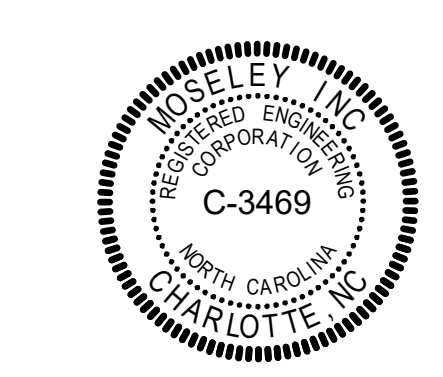
NO	DESCRIPTION	MOUNTING HEIGHT	DETAIL	NOTES
D1	PENAL COMBINATION FIXTURE	PER DETAIL	1/A7.2.1	
D2	DETENTION MIRROR, SINGLE	PER DETAIL	2/A7.2.1	
D3	GRAB BAR, ANTI-LIGATURE, 42"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	
D4	GRAB BAR, ANTI-LIGATURE, 18"	REFER TO WATER CLOSET ELEVATIONS	3/A7.2.1	FOR SHOWER LOCATIONS, SEE TRANSFER-TYPE SHOWER ELEVATIONS
D6	RECESSED TOILET PAPER HOLDER	PER DETAIL	6/A7.2.1	
D9	DETENTION SS COUNTER, 24" DEPTH	<varies>		SALVAGED SS COUNTER TOP. INSTALL IN LOCATIONS SHOWN
D10	DETENTION STOOL, FLOOR-MOUNTED	FLOOR MOUNTED	9/A7.2.1	
D11	DETENTION SWING STOOL, WALL-MOUNTED	PER DETAIL	4/A7.2.1	
D16	18"x36" CORNER GRAB BAR ASSEMBLY, ANTI-LIGATURE	REFER TO SHOWER ELEVATIONS		INCLUDES WALL EMBED PLATE
D17	SAFETY HOOK, SINGLE	PER DETAIL	8/A7.2.1	
D18	DETENTION TABLE, 6-MAN	FLOOR MOUNTED	13/A.7.2.1 SIM	EXISTING TABLE. RE-INSTALL IN LOCATION SHOWN.
D19	DETENTION TABLE, 4-MAN	FLOOR MOUNTED	13/A.7.2.1	
D20	DETENTION TABLE, 4-MAN, ACCESSIBLE	FLOOR MOUNTED	14/A.7.2.1	
D21	DETENTION BUNK, SINGLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	
D22	DETENTION BUNK, DOUBLE, FLOOR-MOUNTED	FLOOR MOUNTED	12/A7.2.1	EXISTING BUNK INSTALL IN NEW LOCATION SHOWN.
D24	L-SHAPED FOLDING SHOWER SEAT	1'-6" TO SEAT SURFACE		

NOTE:  
 1. SAND AND REPAIR EXISTING FURNITURE TO BE SALVAGED AND REINSTALLED.

**KEYNOTES**  
 REPRESENTED BY ( )  
 APPLIES TO DRAWINGS A7.1

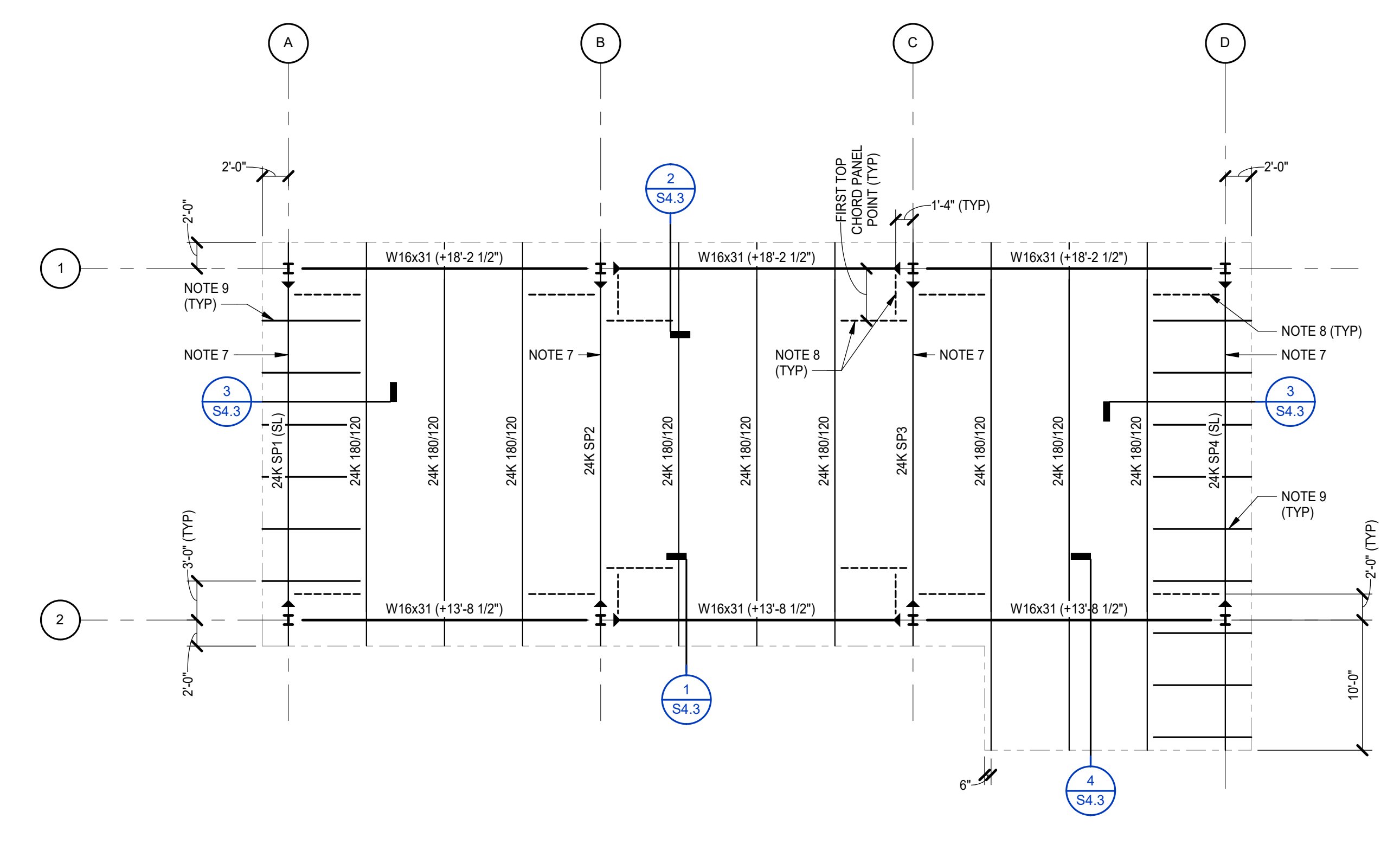
- RAISED DIRECT SUPERVISION PLATFORM
- BUILD RAISED PLATFORM PER DIMENSIONS INDICATED
- CONCRETE SLAB ON DECK ABOVE SLEEPER STUDS. SEE STRUCTURAL DWGS.
- CAST IN PLACE CONCRETE STEPS.
- SECURITY CAULK AT TRANSITION
- HAND RAIL - FLOOR MOUNTED
- STALL DOORS PER DIV. 08 - TYP.
- PROVIDE TOOLED NOSING WITH FOUR 1/4" DEEP GROOVES 3/4" O.C. PARALLEL WITH TREAD EDGE. TOOL NOSING AT 1/2" RADIUS EDGE AT CAST IN-PLACE CONCRETE STEPS
- EXISTING CORNER MULLION TO REMAIN
- ATTACH JAMB TO EXISTING SECURITY H.M. CORNER FRAME
- SOLID SURFACE MATERIAL
- UNDERCOUNTER UTILITY BRACKET. PAINT TO MATCH WALL COLOR
- EXISTING WINDOW ABOVE
- 8" CMU LOW WALL PER DETAIL ON SHEET A0.2
- 8" CMU LOW WALL PER DETAIL ON SHEET A0.2
- P1 WALL BELOW COUNTER PER DETAIL ON SHEET A0.2
- 5" CHASE WITH SECURE ACCESS PANEL





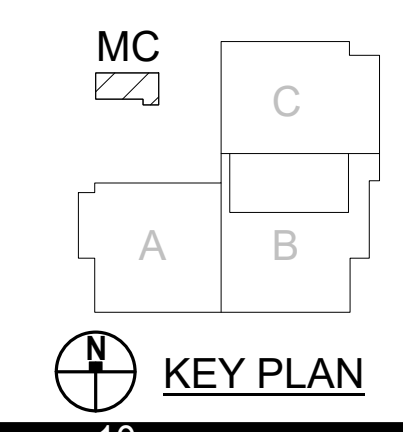
**MORGUE CONTAINER SHELTER FOUNDATION PLAN**  
 1/8" = 1'-0"

- MORGUE CONTAINER SHELTER FOUNDATION PLAN NOTES:**
1. FINISHED FIRST FLOOR ELEVATION = 302.00' = REFERENCE DATUM EL (+0'-0"). ALL STRUCTURAL ELEVATIONS INDICATED ARE REFERENCED FROM THIS ELEVATION, UNO.
  2. FLOOR CONSTRUCTION SHALL BE 6" NORMAL WEIGHT CONCRETE SLAB-ON-GRADE REINFORCED WITH #4 BARS AT 16" OC EA WAY (AT 2" FROM TOP OF SLAB) OVER 6" GRANULAR BASE COURSE, UNO. TOP OF SLAB ELEVATIONS ARE INDICATED AT CORNERS. SLAB SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN.
  3. BASE COURSE SHALL BE A CLEAN, DENSELY-GRADED "CRUSHER RUN" MATERIAL WITH A BALANCED FINE CONTENT, SUCH AS NCDOT ABC STONE. THE BASE COURSE SHALL BE COMPACTED AND SHALL BE FINISHED TO A FLAT, SMOOTH, LOW-FRICTION SURFACE. COMPACTION SHALL BE MONITORED BY THE ON-SITE TESTING AGENCY. OPEN GRADED STONE, SUCH AS #57 STONE, IS NOT ACCEPTABLE.
  4. TOP OF ALL FOOTINGS SHALL BE AS INDICATED ON PLAN.
  5. TOP OF SLAB ELEVATIONS AT CORNERS SHALL BE AS INDICATED ON PLAN. SLAB SHALL SLOPE UNIFORMLY BETWEEN ELEVATIONS SHOWN.
  6. PRIOR TO INSTALLATION OF NEW FOOTINGS, CONTRACTOR SHALL LOCATE EXISTING UNDERGROUND UTILITIES AND NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS WITH NEW FOOTINGS.
  7. REFER TO "SLAB-ON-GRADE JOINT LAYOUT GUIDELINES" AND "SLAB-ON-GRADE JOINT DETAILS" ON DRAWING S3.1. CONTRACTOR SHALL COORDINATE SLAB CONTROL JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFER TO ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
  8. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
  9. REFER TO DRAWING S3.1 FOR TYPICAL FOUNDATION AND SLAB DETAILS AND SCHEDULES.



**MORGUE CONTAINER SHELTER ROOF FRAMING PLAN**  
 1/8" = 1'-0"

- MORGUE CONTAINER SHELTER ROOF FRAMING PLAN NOTES:**
1. TOP OF STEEL BEAMS INDICATED THUS (+X'-X") ON PLAN SHALL BE REFERENCED FROM FINISHED FIRST FLOOR ELEVATION.
  2. STEEL ROOF DECK SHALL BE 1 1/2" WIDE RIB ROOF DECK (DECK TYPE 1). REFER TO STEEL DECK SCHEDULE ON DRAWING S4.2.
  3. ALL BEAMS AND JOISTS ARE EQUALLY SPACED BETWEEN COLUMN GRIDLINES AND SPECIFIED DIMENSIONS, UNO.
  4. REFER TO DRAWING S0.1 FOR GENERAL NOTES, PLAN LEGEND, AND STRUCTURAL ABBREVIATIONS.
  5. REFER TO DRAWING S4.2 FOR TYPICAL FRAMING DETAILS AND SCHEDULES.
  6. WHERE JOISTS BEAR ON TOP OF COLUMN, PROVIDE 1/2" CAP PLATE. COORDINATE SIZE TO ALLOW FOR JOIST BOLTS WHERE REQUIRED.
  7. REFER TO MOMENT CONNECTION OF STEEL JOIST TO W-COLUMN FLANGE TYPICAL DETAIL AND REACTION SCHEDULE ON DRAWING S4.2.
  8. REFER TO TYPICAL ANGLE BRACE TO JOIST TOP CHORD DETAIL ON DRAWING S4.2.
  9. C6x10.5 BETWEEN ROOF DECK FLUTES AT 4'-0" ON CENTER OVER ROOF DECK, REFER TO SECTIONS.



**DETECTION ANNEX RENOVATION**  
 3400 Hammond Road, Raleigh, NC 27603  
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11/13/25	*AD-03

MORGUE CONTAINER SHELTER PLANS