

DATE: December 13, 2022

DEPARTMENT OF GENERAL SERVICES  
BUREAU OF CAPITAL PROJECT DESIGN MANAGEMENT  
1800 HERR STREETS  
HARRISBURG, PENNSYLVANIA

**ADDENDUM NO. 6**

**on**

**PROJECT NO. DGS C-0969-0017 PHASE 001**

**PROJECT TITLE - Hollidaysburg Veteran's Home - Construction of New Community Living Center**

**PROFESSIONAL:**

Hord Coplan Macht, Inc.

700 E. Pratt Street, Suite 1200

Baltimore, MD, 21202

**If you submitted a bid prior to this Addendum being issued, your bid has been discarded and you must re-submit your bid(s) prior to the bid opening date and time.**

Refer to attached for addendum information.

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**ADDENDUM NO. 6**

on

**PROJECT NO. DGS C-0969-0017 PHASE 001  
CONSTRUCTION OF NEW COMMUNITY LIVING CENTER – HOLLIDAYSBURG VETERAN’S HOME –  
DUNCANVILLE, BLAIR COUNTY, PA  
HORD COPLAN MACHT, INC., 700 E. PRATT STREET, SUITE 1200, BALTIMORE, MD 21202**

**CLARIFICATIONS – ALL CONTRACTS**

Item 1 – Drawing C-402:

- a. Generator Pads, included in General Contractor Bid.
- b. Transformer Pads, included in General Contractor Bid.
- c. Condenser Pad, included in General Contractor Bid.

Item 2 – Interior Concrete Pads, details for equipment/housekeeping pads is shown in 5/S-400. Interior pads shown by HVAC(.2), Plumbing(.3) and Electrical(.4) to be included in General Contractor Bid.

**SPECIFICATIONS CLARIFICATIONS – CONTRACT NO. DGS 0969-0017 PHASE 1.1**

Item 1 - Section 01 91 13 General Commissioning and 01 91 55 Building Envelope Commissioning are included in the TOC.

**SPECIFICATION CHANGES – CONTRACT NO. DGS 0969-0017 PHASE 1.1**

Item 1 – Section 32 13 16, Decorative Concrete Paving, Davis color (or equal) selections are:

- P-101 (color 1) = Outback
- P-102 (color 2) = Sequoia Sand
- P-103 (color 3) = Pewter

Item 2 – Delete spec section 10 14 19, Dimensional Letter Signage from the project.

Item 3 – Spec Section 10 28 00 Toilet, Bath, and Laundry Accessories, add the following:

A. Folding Shower Seat:

1. Basis-of-Design Product: Bobrick Washroom Equipment, Inc.; Model B-5181.
2. Configuration: Rectangular.
3. Seat: Phenolic or polymeric composite of slat-type or one-piece construction in color as selected by Architect.
4. Mounting Mechanism: Stainless steel, No. 4 finish (satin).
5. Dimensions: 33 inches wide by 21 inches deep.

SPECIFICATION CLARIFICATIONS – CONTRACT NO. DGS 0969-0017 PHASE 1.2

Item 1 - Spec section 23 07 13 and Spec section 23 31 13: Clarification on insulation type, round, and rectangular ductwork downstream of VAVs, Fan Powered Boxes, Fans, FCU Units and AHU SA & RA duct that is internally lined ductwork shall be insulated with Mineral-Fiber Blanket insulation specified in section 23 31 13. Supply fan plenums shall be internally lined with 1" elastomeric liner, return and exhaust fan plenums shall be lined with 2" elastomeric liner and transfer ducts shall be lined with ½" elastomeric liner.

Item 2 - Spec section 23 07 13 and Spec section 23 31 13: Elastomeric Line, clarification, the first 15' of ductwork downstream of all VAV terminals, Fan Powered Boxes, Fans and FCU Units shall be internally lined with elastomeric liner. The first 20' of supply and return ductwork from all Air handling units shall be internally lined with elastomeric liner. All bare ductwork beyond internal duct liner shall be coated with anti-microbial coating.

SPECIFICATION CLARIFICATIONS – CONTRACT NO. DGS 0969-0017 PHASE 1.3

Item 1 - Areas of Protection: 2.2.B Description: If smoke is detected by any smoke detector of the protected areas, the systems in all zones in the area shall discharge.

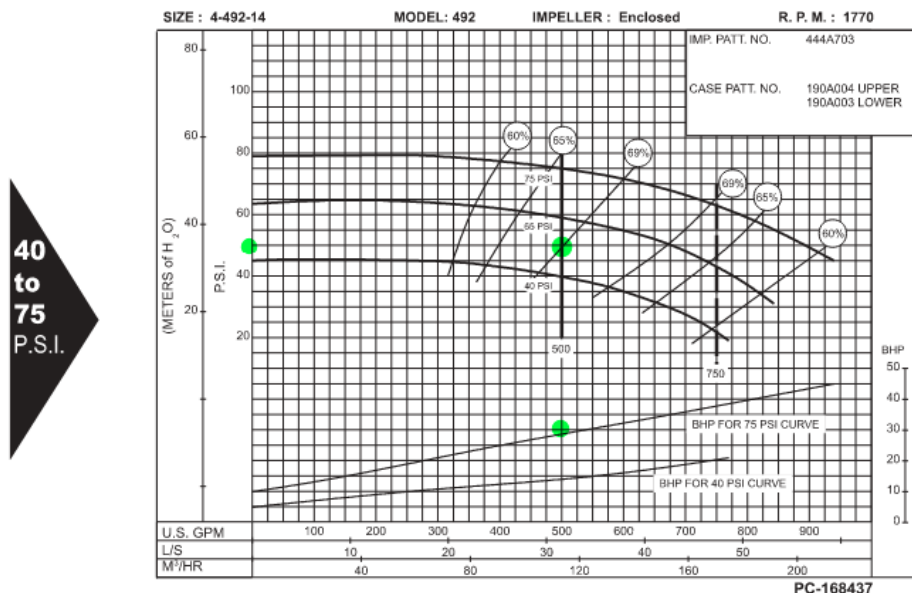
Item 2 - Air sampling: air sampling is required for all four-hazard rooms.

Item 3 - Graphic annunciator: 2.8.F states about providing a graphic annunciator for each hazard, provide per specification.

Item 4 - Oxygen Deficiency monitor: 2.12E Oxygen Deficiency monitor provide per specification.

Item 5 - Foundation drain tile piping provide corrugated, perforated plastic flexible piping.

Item 6 – Fire Pump, the static pressure at the project site is 105 psi, but the residual pressure is only 65 psi at 1,192 GPM. The Fire Pump shall be as indicated in the attached pump curve providing 50 psi discharge at 500 GPM (Ordinary Hazard Group 2) and 30 Hp. The sprinkler subcontractor, selected by the awarded General Contractor shall provide hydraulic calculations after award of the subcontract and during the subcontractor’s design services. The subcontractor may assess the difference in price between using smaller pipe sizes with a Fire Pump and required larger pipe sizes without a Fire Pump. Should the designed system not require a Fire Pump then, the Fire Pump may be deleted by reason of an acceptable credit for the deleted work. However, the Fire Pump indicated in this response shall be provided in the Base Bid.



SPECIFICATION CHANGES – CONTRACT NO. DGS 0969-0017 PHASE 1.3

Item 1 – FK-5-1-12, concentration of 4.7%, is an acceptable substitute for FM200.

Item 2 - Specifications Sections 21 05 48 and 21 05 29 indicate seismic supports for the fire sprinkler system: Seismic bracing is not required. Section 21 05 48 shall be deleted. References to seismic restraint shall be removed from 21 05 29.

Item 3 – Add spec section 22 11 22, Facility Natural-Gas Piping.

SPECIFICATION CHANGES – CONTRACT NO. DGS 0969-0017 PHASE 1.4

Item 1 - Specification Section 28 46 21.11, Addressable Fire-Alarm Systems, the new building voice evacuation fire alarm system will need to have the interface capabilities to be able to connect to the existing campus Simplex fire alarm system. This way the existing campus system will be able to monitor the new building fire alarm system.

DRAWING CLARIFICATIONS – CONTRACT NO. DGS 0969-0017 PHASE 1.1

Item 1 - Louvre Schedule: louver 1 size is 54" x 24" x 4" @ 9'-6" AFF 4.5 SF Free Area, Air Flow= 500. Louver 2 is 66" x 24" x 4" @ 9'-6" AFF 5.5 SF Free Area, Air Flow = 500. Louvers covered by spec section 08 91 19 Fixed Louvers.






Item 2 - Drawing C-402 & Drawing Detail (4/S-411) Clarification: The concrete walk detail is to be used AROUND the equipment. The other specific details are to be used UNDER the equipment to support the equipment. The concrete walk detail is meant to cover the leftover space between the equipment.

Item 3 - Locations of fire extinguisher cabinets (10 44 16) are shown on Life Safety Plans G-101, G-102, G-103 for locations and Interiors Detail Sheet A-530.

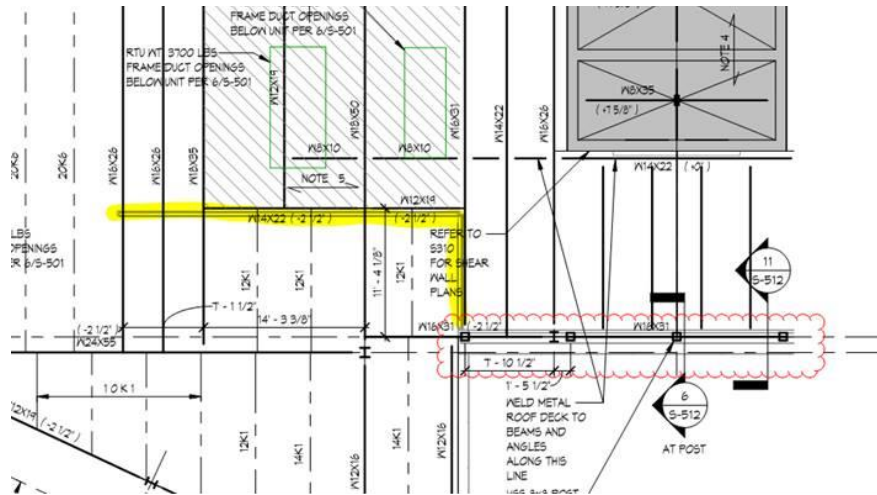
Item 4 – Project Screens 11 52 13, are shown on Reflected Ceiling Plan for Veterans' Hall.

Item 5 - Peg Board Wall Covering on page A-406 located in Pharmacy room A171, provide white perforated peg panel manufactured on S2S hardboard, 3/16 In. thick x 4 Ft. x 8 Ft. the panel is perforated with 9/32 In. holes, 1.0 In. on center, starting 1/2 In. from the edges. It may be attached to 16 In. on center studs, with cross bracing top and bottom, or to furring strips that are anchored to the wall with similar spacing.

Item 6 – Fiber Cement Siding, elevations sheets A-200, see Rain Screen Panel Color Legend on Sheet A-210.

RAIN SCREEN PANEL COLOR LEGEND	
	TE90, CREAM
	TE40, TERRA-COTTA
	TE85, DARK GREY
	TE00, WARM LIGHT GREY
	TE10, WARM MEDIUM GREY
	TE60, WARM DARK GREY

Item 7 – Roof top Mechanical Screen, the red clouded section of wall is a “screen” continuation of the façade. Tubes detailed at 6/S-512 and 11/S-512 for this. The highlighted portion is supposed to be a premanufactured screen and frame supported off the roof, which is covered by 05 70 00 and 05 50 00. There is steel located under it for support.



**DRAWING CHANGES – CONTRACT NO. DGS 0969-0017 PHASE 1.1**

Item 1 – See attached sheet A-601, Door Schedule – Unit Doors, Bathroom, Note: Provide hollow metal frame at opening with sliding door side of frame flush with wall and inside 1/2” lap.

Item 2 – Drawings A-600 and A-601 (Drawings Attached):

- a. See changes for door thicknesses from 2” to 1 3/4”.
- b. See changes for door types from ‘FP’ Flush Pair to ‘F’ Flush door.
- c. Locations of Fire Rated Aluminum Frames have been added. See attached sheets A-102a, A-102b, A-102c, A-102d, A-103a, A-103b, A-600, A-601, and A-612.

Item 3 – See attached drawings A-403, A-405, A-545, and A-620 for GA-1 Moss Greenwall details and product information. GA-1: Manufacturer: Greenmood – Style: Reindeer Moss, Color: Medium 70

Item 4 – See attached Drawing A-111a, Partial RCP Level 1 Area A for correct layout of ceiling in Lobby A101.

Item 5 – Attached sheets A-411 and A-412, additional toilet accessory tags and info added.

**DRAWING CLARIFICATION – CONTRACT NO. DGS 0969-0017 PHASE 1.2**

Item 1 - Drawing M-122 and M-124; all residence room terminal units will require internal liner and external insulation beyond the liner. The first 15’ of ductwork downstream of all VAV terminals, Fan Powered Boxes, Fans and FCU Units shall be internally lined with elastomeric liner. The first 20’ of supply and return ductwork from all Air handling units shall be internally lined with elastomeric liner. All bare ductwork beyond internal duct liner shall be coated with anti-microbial coating.

Item 2 - Duct Liner verse Duct wrap insulation: all supply duct beyond 15 feet downstream of FTUs shall be externally insulated. Return air and exhaust air ductwork beyond 15 feet shall be externally insulated. Spiral ductwork serving all terminal units shall be externally insulated; double wall not required.

## DRAWING CHANGES – CONTRACT NO. DGS 0969-0017 PHASE 1.2

Item 1 – Sheet M-024, the Variable Air Volume Terminal (7-10) - Electric Reheat (VAV) schedule on M-024 is a duplicate and shall be deleted. There is a total of 217 electric reheat VAV boxes.

Item 2 – Sheet M-041, Split System Heat Pump Control Diagram: Control Diagram - Split System Heat Pump AHU/HP packages 1,2, and 3 shall be connected into the DDC system. The note reference to AHU-3/HP-3 and AHU-4/HP-4 shall be deleted.

## DRAWING CLARIFICATIONS – CONTRACT NO. DGS 0969-0017 PHASE 1.3

Item 1 - Provide one reserve cylinder for each hazard area. Reserve shall be 100% of protected volume.

Attachments: Spec Sections:

21 05 29, Hangers and Supports for Fire-Suppression Piping and Equipment

22 11 22, Facility Natural-Gas Piping

Drawings:

A-102a, Partial Floor Plan Level 2 Area A

A-102b, Partial Floor Plan Level 2 Area B

A-102c, Partial Floor Plan Level 2 Area C

A-102d, Partial Floor Plan Level 2 Area D

A-103a, Partial Floor Plan Level 3 Area A

A-103b, Partial Floor Plan Level 3 Area B

A-111a, Partial RCP Level 1 Area A

A-403, Interior Enlarged Plans and Elevations

A-405, Interior Enlarged Plans and Elevations

A-411, Enlarged Toilet Plans & Elevations

A-412, Enlarged Toilet Plans & Elevations

A-545, Casework Details

A-600, Door Schedules

A-601, Door Schedules & Details

A-612, Interior Storefront Schedule and Details

A-620, Finish Material Legend

## SECTION 21 05 29

### HANGERS AND SUPPORTS FOR FIRE-SUPPRESSION PIPING AND EQUIPMENT

#### PART 1 - GENERAL

##### 1.1 STIPULATIONS

- A. The specification sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 – General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

##### 1.2 RELATED DOCUMENTS

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

##### 1.3 SUMMARY

- A. Section Includes:

1. Metal pipe hangers and supports.
2. Trapeze pipe hangers.
3. Metal framing systems.
4. Thermal hanger-shield inserts.
5. Fastener systems.
6. Equipment supports.

- B. Related Requirements:

- ~~1. Section 210548 "Vibration and Seismic Controls for Fire-Suppression Piping and Equipment" for vibration isolation devices and seismic restraints.~~

##### 1.4 ACTION SUBMITTALS

- A. Product Data: For each type of product.

- B. Shop Drawings: Signed and sealed by a qualified professional engineer. Show fabrication and installation details and include calculations for the following:

1. Trapeze pipe hangers.
2. Metal framing systems.
3. Equipment supports.

- C. Delegated-Design Submittal: For trapeze hangers indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.

1. Detail fabrication and assembly of trapeze hangers.
2. Include design calculations for designing trapeze hangers.

## 1.5 INFORMATIONAL SUBMITTALS

- A. Welding certificates.

## 1.6 QUALITY ASSURANCE

- A. Structural-Steel Welding Qualifications: Qualify procedures and personnel according to AWS D1.1/D1.1M.
- B. Pipe Welding Qualifications: Qualify procedures and operators according to 2015 ASME Boiler and Pressure Vessel Code, Section IX.

## PART 2 - PRODUCTS

### 2.1 PERFORMANCE REQUIREMENTS

- A. Delegated Design: Engage a qualified professional engineer, as defined in Section 014000 "Quality Requirements," to design trapeze pipe hangers and equipment supports.
- B. Structural Performance: Hangers and supports for fire-suppression piping and equipment shall withstand the effects of gravity loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.
  - 1. Design supports for multiple pipes, including pipe stands, capable of supporting combined weight of supported systems, system contents, and test water.
  - 2. Design equipment supports capable of supporting combined operating weight of supported equipment and connected systems and components.
  - ~~3. Design seismic-restraint hangers and supports for piping and equipment and obtain approval from authorities having jurisdiction.~~
- C. NFPA Compliance: Comply with NFPA 13.
- D. UL Compliance: Comply with UL 203.

### 2.2 METAL PIPE HANGERS AND SUPPORTS

- A. Carbon-Steel Pipe Hangers and Supports:
  - 1. Description: Factory-fabricated components, NFPA approved, UL listed, or FM approved for fire-suppression piping support.
  - 2. Galvanized Metallic Coatings: Pregalvanized or hot-dip galvanized.
  - 3. Hanger Rods: Continuous-thread rod, nuts, and washer made of carbon steel.
- B. Copper Pipe and Tube Hangers:
  - 1. Description: Copper-coated-steel, factory-fabricated components, NFPA approved, UL listed, or FM approved for fire-suppression piping support.
  - 2. Hanger Rods: Continuous-thread rod, nuts, and washer made of copper-coated steel.



## 2.3 TRAPEZE PIPE HANGERS

- A. Description: MSS SP-58, Type 59, shop- or field-fabricated pipe-support assembly, made from structural-carbon-steel shapes, with NFPA-approved, UL-listed, or FM-approved carbon-steel hanger rods, nuts, saddles, and U-bolts.

## 2.4 METAL FRAMING SYSTEMS

- A. MFMA Manufacturer Metal Framing Systems:
  - 1. Description: Shop- or field-fabricated pipe-support assembly, made of steel channels, accessories, fittings, and other components for supporting multiple parallel pipes.
  - 2. Standard: Comply with MFMA-4, factory-fabricated components for field assembly.
  - 3. Channels: Continuous slotted carbon-steel channel with inturned lips.
  - 4. Channel Width: Selected for applicable load criteria.
  - 5. Channel Nuts: Formed or stamped nuts or other devices designed to fit into channel slot and, when tightened, prevent slipping along channel.
  - 6. Hanger Rods: Continuous-thread rod, nuts, and washer made of carbon steel.
  - 7. Metallic Coating: No coating.
  - 8. Paint Coating: Green epoxy, acrylic, or urethane.
- B. Non-MFMA Manufacturer Metal Framing Systems:
  - 1. Description: Shop- or field-fabricated pipe-support assembly, made of steel channels, accessories, fittings, and other components for supporting multiple parallel pipes.
  - 2. Standard: Comply with MFMA-4, factory-fabricated components for field assembly.
  - 3. Channels: Continuous slotted carbon-steel channel with inturned lips.
  - 4. Channel Width: Select for applicable load criteria.
  - 5. Channel Nuts: Formed or stamped nuts or other devices designed to fit into channel slot and, when tightened, prevent slipping along channel.
  - 6. Hanger Rods: Continuous-thread rod, nuts, and washer made of carbon steel.
  - 7. Metallic Coating: No coating.
  - 8. Paint Coating: Green epoxy, acrylic, or urethane.

## 2.5 THERMAL HANGER-SHIELD INSERTS

- A. Insulation-Insert Material: Water-repellent-treated, ASTM C533, Type I calcium silicate with 100-psi (688-kPa) minimum compressive strength.
- B. For Trapeze or Clamped Systems: Insert and shield shall cover entire circumference of pipe.
- C. For Clevis or Band Hangers: Insert and shield shall cover lower 180 degrees of pipe.
- D. Insert Length: Extend 2 inches (50 mm) beyond sheet metal shield for piping operating below ambient air temperature.

## 2.6 FASTENER SYSTEMS

- A. Powder-Actuated Fasteners: NFPA-approved, UL-listed, or FM-approved threaded-steel stud, for use in hardened portland cement concrete, with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.

- B. Mechanical-Expansion Anchors: NFPA-approved, UL-listed, or FM-approved, insert-wedge-type anchors, for use in hardened portland cement concrete; with pull-out, tension, and shear capacities appropriate for supported loads and building materials where used.
  - 1. Indoor Applications: Zinc-coated steel.
  - 2. Outdoor Applications: Stainless steel.

## 2.7 EQUIPMENT SUPPORTS

- A. Description: NFPA-approved, UL-listed, or FM-approved, welded, shop- or field-fabricated equipment support, made from structural-carbon-steel shapes.

## 2.8 MATERIALS

- A. Aluminum: ASTM B221 (ASTM B221M).
- B. Carbon Steel: ASTM A1011/A1011M.
- C. Structural Steel: ASTM A36/A36M, carbon-steel plates, shapes, and bars; black and galvanized.
- D. Stainless Steel: ASTM A240/A240M.
- E. Grout: ASTM C1107/C1107M, factory-mixed and -packaged, dry, hydraulic-cement, nonshrink and nonmetallic grout, suitable for interior and exterior applications.
  - 1. Properties: Nonstaining, noncorrosive, and nongaseous.
  - 2. Design Mix: 5000-psi (34.5-MPa), 28-day compressive strength.

## PART 3 - EXECUTION

### 3.1 APPLICATION

- A. Comply with requirements in Section 078413 "Penetration Firestopping" for firestopping materials and installation, for penetrations through fire-rated walls, ceilings, and assemblies.
- B. Strength of Support Assemblies: Where not indicated, select sizes of components, so strength will be adequate to carry present and future static loads within specified loading limits. Minimum static design load used for strength determination shall be weight of supported components plus 200 lb (90 kg).

### 3.2 INSTALLATION OF HANGERS AND SUPPORTS

- A. Metal Pipe-Hanger Installation: Comply with installation requirements of approvals and listings. Install hangers, supports, clamps, and attachments as required to properly support piping from building structure.
- B. Metal Trapeze Pipe-Hanger Installation: Comply with MSS SP-58. Arrange for grouping of parallel runs of horizontal piping, and support together on field-fabricated trapeze pipe hangers.

1. Pipes of Various Sizes: Support together and space trapezes for smallest pipe size, or install intermediate supports for smaller-diameter pipes as specified for individual pipe hangers.
  2. Field fabricate from ASTM A36/A36M carbon-steel shapes selected for loads being supported. Weld steel according to AWS D1.1/D1.1M.
- C. Metal Framing System Installation: Arrange for grouping of parallel runs of piping, and support together on field-assembled metal strut systems.
- D. Thermal Hanger-Shield Installation: Install in pipe hanger or shield for insulated piping.
- E. Fastener System Installation:
1. Install powder-actuated fasteners for use in lightweight concrete or concrete slabs less than 4 inches (100 mm) thick in concrete, after concrete is placed and completely cured. Use operators that are licensed by powder-actuated tool manufacturer. Install fasteners according to powder-actuated tool manufacturer's operating manual. Install in accordance with approvals and listings.
  2. Install mechanical-expansion anchors in concrete, after concrete is placed and completely cured. Install fasteners according to manufacturer's written instructions. Install in accordance with approvals and listings.
- F. Install hangers and supports complete with necessary attachments, inserts, bolts, rods, nuts, washers, and other accessories.
- G. Equipment Support Installation: Fabricate from welded-structural-steel shapes.
- H. Install hangers and supports to allow controlled thermal ~~and seismic~~ movement of piping systems, to permit freedom of movement between pipe anchors, and to facilitate action of expansion joints, expansion loops, expansion bends, and similar units.
- I. Install lateral bracing with pipe hangers and supports to prevent swaying.
- J. Install building attachments within concrete slabs or attach to structural steel. Install additional attachments at concentrated loads, including valves, flanges, and strainers, NPS 2-1/2 (DN 65) and larger and at changes in direction of piping. Install concrete inserts before concrete is placed; fasten inserts to forms, and install reinforcing bars through openings at top of inserts.
- K. Load Distribution: Install hangers and supports, so that piping live and dead loads and stresses from movement will not be transmitted to connected equipment.
- L. Pipe Slopes: Install hangers and supports to provide indicated pipe slopes and to not exceed maximum pipe deflections allowed by ASME B31.9 for building services piping.
- M. Insulated Piping:
1. Attach clamps and spacers to piping.
    - a. Piping Operating Above Ambient Air Temperature: Clamp may project through insulation.
    - b. Piping Operating Below Ambient Air Temperature: Use thermal hanger-shield insert with clamp sized to match OD of insert.
    - c. Do not exceed pipe stress limits allowed by ASME B31.9 for building services piping.

2. Install MSS SP-58, Type 39 protection saddles if insulation without vapor barrier is indicated. Fill interior voids with insulation that matches adjoining insulation.
  - a. MSS SP-58, Type 39 Option: Thermal hanger-shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 (DN 100) and larger if pipe is installed on rollers.
3. Install MSS SP-58, Type 40 protective shields on cold piping with vapor barrier. Shields shall span an arc of 180 degrees.
  - a. MSS SP-58, Type 40 Option: Thermal hanger-shield inserts may be used. Include steel weight-distribution plate for pipe NPS 4 (DN 100) and larger if pipe is installed on rollers.
4. Shield Dimensions for Pipe: Not less than the following:
  - a. NPS 1/4 to NPS 3-1/2 (DN 8 to DN 90): 12 inches (305 mm) long and 0.048 inch (1.22 mm) thick.
  - b. NPS 4 (DN 100): 12 inches (305 mm) long and 0.06 inch (1.52 mm) thick.
  - c. NPS 5 and NPS 6 (DN 125 and DN 150): 18 inches (457 mm) long and 0.06 inch (1.52 mm) thick.
  - d. NPS 8 to NPS 14 (DN 200 to DN 350): 24 inches (610 mm) long and 0.075 inch (1.91 mm) thick.
  - e. NPS 16 to NPS 24 (DN 400 to DN 600): 24 inches (610 mm) long and 0.105 inch (2.67 mm) thick.
5. Pipes NPS 8 (DN 200) and Larger: Include wood or reinforced calcium-silicate-insulation inserts of length at least as long as protective shield.
6. Thermal Hanger Shields: Install with insulation of same thickness as piping insulation.

### 3.3 INSTALLATION OF EQUIPMENT SUPPORTS

- A. Fabricate structural-steel stands to suspend equipment from structure overhead or to support equipment above floor.
- B. Grouting: Place grout under supports for equipment, and make bearing surface smooth.
- C. Provide lateral bracing, to prevent swaying, for equipment supports.

### 3.4 METAL FABRICATIONS

- A. Cut, drill, and fit miscellaneous metal fabrications for trapeze pipe hangers and equipment supports.
- B. Fit exposed connections together to form hairline joints. Field weld connections that cannot be shop welded because of shipping size limitations.
- C. Field Welding: Comply with AWS D1.1/D1.1M procedures for shielded, metal arc welding; appearance and quality of welds; and methods used in correcting welding work; and with the following:
  1. Use materials and methods that minimize distortion and develop strength and corrosion resistance of base metals.

2. Obtain fusion without undercut or overlap.
3. Remove welding flux immediately.
4. Finish welds at exposed connections, so no roughness shows after finishing and so contours of welded surfaces match adjacent contours.

### 3.5 ADJUSTING

- A. Hanger Adjustments: Adjust hangers to distribute loads equally on attachments and to achieve indicated slope of pipe.
- B. Trim excess length of continuous-thread hanger and support rods to 1-1/2 inches (40 mm).

### 3.6 PAINTING

- A. Touchup:
  1. Clean field welds and abraded, shop-painted areas. Paint exposed areas immediately after erecting hangers and supports. Use same materials as those used for shop painting. Comply with SSPC-PA 1 requirements for touching up field-painted surfaces.
    - a. Apply paint by brush or spray to provide a minimum dry film thickness of 2.0 mils (0.05 mm).
  2. Cleaning and touchup painting of field welds, bolted connections, and abraded, shop-painted areas on miscellaneous metal are specified in Section 099113 "Exterior Painting." And Section 099123 "Interior Painting."
- B. Galvanized Surfaces: Clean welds, bolted connections, and abraded areas, and apply galvanizing-repair paint to comply with ASTM A780/A780M.

### 3.7 HANGER AND SUPPORT SCHEDULE

- A. Specific hanger and support requirements are in Sections specifying piping systems and equipment.
- B. Comply with NFPA requirements for pipe-hanger selections and applications that are not specified in piping system Sections.
- C. Use hangers and supports with galvanized metallic coatings for piping and equipment that will not have field-applied finishes.
- D. Use nonmetallic coatings on attachments for electrolytic protection where attachments are in direct contact with copper tubing.
- E. Use carbon-steel pipe hangers and supports and attachments for general service applications.
- F. Use stainless-steel pipe hangers and stainless-steel attachments for hostile environment applications.
- G. Use copper-plated pipe hangers and copper attachments for copper piping and tubing.
- H. Use thermal hanger-shield inserts for insulated piping and tubing.

- I. Horizontal-Piping Hangers and Supports: Comply with NFPA requirements. Unless otherwise indicated and except as specified in piping system Sections, install the following types:
1. Adjustable, Steel Clevis Hangers (MSS Type 1): For suspension of noninsulated or insulated, stationary pipes NPS 1/2 to NPS 30 (DN 15 to DN 750).
  2. Steel Pipe Clamps (MSS Type 4): For suspension of NPS 1/2 to NPS 24 (DN 15 to DN 600) if little or no insulation is required.
  3. Adjustable, Swivel-Ring Band Hangers (MSS Type 10): For suspension of noninsulated, stationary pipes NPS 1/2 to NPS 8 (DN 15 to DN 200).
  4. Split Pipe Ring with or without Turnbuckle Hangers (MSS Type 11): For suspension of noninsulated, stationary pipes NPS 3/8 to NPS 8 (DN 10 to DN 200).
  5. Extension Hinged or Two-Bolt Split Pipe Clamps (MSS Type 12): For suspension of noninsulated, stationary pipes NPS 3/8 to NPS 3 (DN 10 to DN 80).
  6. U-Bolts (MSS Type 24): For support of heavy pipes NPS 1/2 to NPS 30 (DN 15 to DN 750).
  7. Pipe Saddle Supports (MSS Type 36): For support of pipes NPS 4 to NPS 36 (DN 100 to DN 900), with steel-pipe base stanchion support and cast-iron floor flange or carbon-steel plate.
  8. Pipe Stanchion Saddles (MSS Type 37): For support of pipes NPS 4 to NPS 36 (DN 100 to DN 900), with steel-pipe base stanchion support and cast-iron floor flange or carbon-steel plate, and with U-bolt to retain pipe.
  9. Adjustable Pipe Saddle Supports (MSS Type 38): For stanchion-type support for pipes NPS 2-1/2 to NPS 36 (DN 65 to DN 900) if vertical adjustment is required, with steel-pipe base stanchion support and cast-iron floor flange.
- J. Vertical-Piping Clamps: Unless otherwise indicated and except as specified in piping system Sections, install the following types:
1. Extension Pipe or Riser Clamps (MSS Type 8): For support of pipe risers NPS 3/4 to NPS 24 (DN 24 to DN 600).
  2. Carbon- or Alloy-Steel Riser Clamps (MSS Type 42): For support of pipe risers NPS 3/4 to NPS 24 (DN 20 to DN 600) if longer ends are required for riser clamps.
- K. Hanger-Rod Attachments: Comply with NFPA requirements.
- L. Building Attachments: Comply with NFPA requirements. Unless otherwise indicated and except as specified in piping system Sections, install the following types:
1. Steel or Malleable-Concrete Inserts (MSS Type 18): For upper attachment to suspend pipe hangers from concrete ceiling.
  2. C-Clamps (MSS Type 23): For structural shapes.
  3. Side-Beam Brackets (MSS Type 34): For sides of steel or wooden beams.
- M. Saddles and Shields: Comply with NFPA requirements. Unless otherwise indicated and except as specified in piping system Sections, install the following types:
1. Steel-Pipe-Covering Protection Saddles (MSS Type 39): To fill interior voids with insulation that matches adjoining insulation.
  2. Protection Shields (MSS Type 40): Of length recommended in writing by manufacturer to prevent crushing insulation.
  3. Thermal Hanger-Shield Inserts: For supporting insulated pipe.
- N. Comply with NFPA requirements for trapeze pipe-hanger selections and applications that are not specified in piping system Sections.

- O. Comply with MFMA-103 for metal framing system selections and applications that are not specified in piping system Sections.
- P. Use powder-actuated fasteners or mechanical-expansion anchors instead of building attachments where required in concrete construction.

END OF SECTION 21 05 29

SECTION 22 11 22

FACILITY NATURAL-GAS PIPING

PART 1 - GENERAL

1.1 STIPULATIONS

- A. The specification sections "General Conditions to the Construction Contract", "Special Conditions" and "Division 01 – General Requirements" form a part of this Section by this reference thereto, and shall have the same force and effect as if printed herewith in full.

1.2 SUMMARY

- A. Section Includes:
1. Pipes, tubes, and fittings.
  2. Piping specialties.
  3. Joining materials.
  4. Manual gas shutoff valves.
  5. Pressure regulators.
  6. Dielectric fittings.

1.3 DEFINITIONS

- A. CWP: Cold working pressure.
- B. Exposed, Exterior Installations: Exposed to view outdoors or subject to outdoor ambient temperatures and weather conditions. An example includes rooftop locations.
- C. Exposed, Interior Installations: Exposed to view indoors. Examples include finished occupied spaces and mechanical equipment rooms.
- D. Finished Spaces: Spaces other than mechanical and electrical equipment rooms, furred spaces, pipe and duct shafts, unheated spaces immediately below roof, spaces above ceilings, unexcavated spaces, crawlspaces, and tunnels.

1.4 ACTION SUBMITTALS

- A. Product Data:
1. Piping specialties.
  2. Corrugated, stainless steel tubing with associated components.
  3. Valves. Include pressure rating, capacity, settings, and electrical connection data of selected models.
  4. Pressure regulators. Indicate pressure ratings and capacities.
  5. Dielectric fittings.



## 1.5 INFORMATIONAL SUBMITTALS

- A. Coordination Drawings: Plans and details, drawn to scale, on which natural-gas piping is shown and coordinated with other installations, using input from installers of the items involved.
- B. Certificates:
  - 1. Welding certificates.
- C. Site Survey: Plans, drawn to scale, on which natural-gas piping is shown and coordinated with other services and utilities.
- D. Field Quality-Control Submittals:
  - 1. Field quality-control reports.
- E. Qualification Statements: For professional engineer.

## 1.6 CLOSEOUT SUBMITTALS

- A. Operation and Maintenance Data: For pressure regulators to include in emergency, operation, and maintenance manuals.

## 1.7 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Steel Support Welding: Qualify procedures and personnel in accordance with AWS D1.1/D1.1M, "Structural Welding Code - Steel."
  - 2. Pipe Welding: Qualify procedures and operators in accordance with the ASME Boiler and Pressure Vessel Code.

## 1.8 DELIVERY, STORAGE, AND HANDLING

- A. Handling Flammable Liquids: Remove and dispose of liquids from existing natural-gas piping in accordance with requirements of authorities having jurisdiction.
- B. Deliver pipes and tubes with factory-applied end caps. Maintain end caps through shipping, storage, and handling to prevent pipe end damage and to prevent entrance of dirt, debris, and moisture.
- C. Store and handle pipes and tubes having factory-applied protective coatings to avoid damaging coating, and protect from direct sunlight.
- D. Protect stored PE pipes and valves from direct sunlight.

## 1.9 PROJECT CONDITIONS

- A. Perform site survey, research public utility records, and verify existing utility locations. Contact utility-locating service for area where Project is located.

## 1.10 COORDINATION

- A. Coordinate sizes and locations of concrete bases with actual equipment provided.
- B. Coordinate requirements for access panels and doors for valves installed and concealed behind finished surfaces. Comply with requirements in Section 083113 "Access Doors and Frames."
- C. Coordinate requirements for piping identification for natural-gas piping. Comply with requirements in Section 220553 "Identification of Plumbing Piping and Equipment."

## PART 2 - PRODUCTS

### 2.1 SOURCE LIMITATIONS

- A. Obtain each product type from single source from single manufacturer.

### 2.2 PERFORMANCE REQUIREMENTS

- A. Comply with NFPA 54 and the International Fuel Gas Code.
- B. Minimum Operating-Pressure Ratings:
  - 1. Piping and Valves: 100 psig (690 kPa) minimum unless otherwise indicated.
  - 2. Service Regulators: 100 psig (690 kPa) minimum unless otherwise indicated.
  - 3. Minimum Operating Pressure of Service Meter: 5 psig (34.5 kPa).
- C. Natural-Gas System Pressure within Buildings:
  - 1. Two pressure ranges. Primary pressure is more than 0.5 psig (3.45 kPa), but not more than 2 psig (13.8 kPa), and is reduced to secondary pressure of 0.5 psig (3.45 kPa) or less.
- D. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- E. Seismic Performance: Natural-gas piping system is to withstand the effects of earthquake motions determined in accordance with ASCE/SEI 7. See Section 220548 "Vibration and Seismic Controls for Plumbing Piping and Equipment."
  - 1. The term "withstand" means "the piping system will remain in place without separation of any parts from the device when subjected to the seismic forces specified and the piping system will be fully operational after the seismic event."
  - 2. Component Importance Factor: 1.5.

### 2.3 PIPES, TUBES, AND FITTINGS

- A. Steel Pipe: ASTM A53/A53M, black steel, Schedule 40, Type E or S, Grade B.
  - 1. Malleable-Iron Threaded Fittings: ASME B16.3, Class 150, standard pattern.
  - 2. Wrought-Steel Welding Fittings: ASTM A234/A234M for butt welding and socket welding.
  - 3. Unions: ASME B16.39, Class 150, malleable iron with brass-to-iron seat, ground joint, and threaded ends.

4. Forged-Steel Flanges and Flanged Fittings: ASME B16.5, minimum Class 150, including bolts, nuts, and gaskets of the following material group, end connections, and facings:
    - a. Material Group: 1.1.
    - b. End Connections: Threaded or butt welding to match pipe.
    - c. Lapped Face: Not permitted underground.
    - d. Gasket Materials: ASME B16.20, metallic, flat, asbestos free, aluminum O-rings, and spiral-wound metal gaskets.
    - e. Bolts and Nuts: ASME B18.2.1, carbon steel aboveground and stainless steel underground.
  5. Protective Coating for Underground Piping: Factory-applied, three-layer coating of epoxy, adhesive, and PE.
    - a. Joint Cover Kits: Epoxy paint, adhesive, and heat-shrink PE sleeves.
  6. Mechanical Couplings:
    - a. Stainless steel flanges and tube with epoxy finish.
    - b. NBR seals.
    - c. Stainless steel bolts, washers, and nuts.
    - d. Coupling is to be capable of joining PE pipe to PE pipe, steel pipe to PE pipe, or steel pipe to steel pipe.
    - e. Steel body couplings installed underground on plastic pipe are to be factory equipped with anode.
- B. Corrugated, Stainless Steel Tubing: Comply with ANSI/IAS LC 1/CSA 6.26.
1. Tubing: ASTM A240/A240M, corrugated, Series 300 stainless steel.
  2. Coating: PE with flame retardant.
    - a. Surface-Burning Characteristics: As determined by testing identical products in accordance with ASTM E84 by qualified testing agency. Identify products with appropriate markings of applicable testing agency.
      - 1) Flame-Spread Index: 25 or less.
      - 2) Smoke-Developed Index: 50 or less.
  3. Fittings: Copper-alloy mechanical fittings with ends made to fit and listed for use with corrugated stainless steel tubing and capable of metal-to-metal seal without gaskets. Include brazing socket or threaded ends complying with ASME B1.20.1.
  4. Striker Plates: Steel, designed to protect tubing from penetrations.
  5. Manifolds: Malleable iron or steel with factory-applied protective coating. Threaded connections are to comply with ASME B1.20.1 for pipe inlet and corrugated tubing outlets.
  6. Operating-Pressure Rating: 5 psig (34.5 kPa).
- C. Aluminum Tubing: Comply with ASTM B210 and ASTM B241/B241M.
1. Aluminum Alloy: Alloy 5456 is prohibited.
  2. Protective Coating: Factory-applied coating capable of resisting corrosion on tubing in contact with masonry, plaster, insulation, water, detergents, and sewerage.
  3. Flare Fittings: Comply with ASME B16.26 and SAE J513.
    - a. Copper-alloy fittings.
    - b. Metal-to-metal compression seal without gasket.
    - c. Dryseal threads complying with ASME B1.20.3.

- D. Drawn-Temper Copper Tube: Comply with ASTM B88, Type K (ASTM B88M, Type A).
1. Copper Fittings: ASME B16.22, wrought copper, and streamlined pattern.
  2. Bronze Flanges and Flanged Fittings: ASME B16.24, Class 150.
    - a. Gasket Material: ASME B16.20, metallic, flat, asbestos free, aluminum O-rings, and spiral-wound metal gaskets.
    - b. Bolts and Nuts: ASME B18.2.1, carbon steel or stainless steel.
  3. Protective Coating for Underground Tubing: Factory-applied, extruded PE a minimum of 0.022 inch (0.56 mm) thick.
- E. Annealed-Temper Copper Tube: Comply with ASTM B88, Type K (ASTM B88M, Type A).
1. Copper Fittings: ASME B16.22, wrought copper, and streamlined pattern.
  2. Flare Fittings: Comply with ASME B16.26 and SAE J513.
    - a. Copper fittings with long nuts.
    - b. Metal-to-metal compression seal without gasket.
    - c. Dryseal threads complying with ASME B1.20.3.
  3. Protective Coating for Underground Tubing: Factory-applied, extruded PE a minimum of 0.022 inch (0.56 mm) thick.
- F. Tin-Lined Copper Tube: ASTM B280, seamless, annealed, with interior tin-plated lining.
1. Flare Fittings: Comply with ASME B16.26 and SAE J513.
    - a. Copper fittings with long nuts.
    - b. Metal-to-metal compression seal without gasket.
    - c. Dryseal threads complying with ASME B1.20.3.
- G. PE Pipe: ASTM D2513, SDR 11.
1. PE Fittings: ASTM D2683, socket-fusion type or ASTM D3261, butt-fusion type with dimensions matching PE pipe.
  2. PE Transition Fittings: Factory-fabricated fittings with PE pipe complying with ASTM D2513, SDR 11; and steel pipe complying with ASTM A53/A53M, black steel, Schedule 40, Type E or S, Grade B.
  3. Anodeless Service-Line Risers: Factory fabricated and leak tested.
    - a. Underground Portion: PE pipe complying with ASTM D2513, SDR 11 inlet.
    - b. Casing: Steel pipe complying with ASTM A53/A53M, Schedule 40, black steel, Type E or S, Grade B, with corrosion-protective coating covering.
    - c. Aboveground Portion: PE transition fitting.
    - d. Outlet is threaded or flanged or suitable for welded connection.
    - e. Tracer wire connection.
    - f. UV shield.
    - g. Stake supports with factory finish to match steel pipe casing or carrier pipe.
  4. Transition Service-Line Risers: Factory fabricated and leak tested.
    - a. Underground Portion: PE pipe complying with ASTM D2513, SDR 11 inlet connected to steel pipe complying with ASTM A53/A53M, Schedule 40, Type E or S, Grade B, with corrosion-protective coating for aboveground outlet.

- b. Outlet is threaded or flanged or suitable for welded connection.
  - c. Bridging sleeve over mechanical coupling.
  - d. Factory-connected anode.
  - e. Tracer wire connection.
  - f. UV shield.
  - g. Stake supports with factory finish to match steel pipe casing or carrier pipe.
5. Plastic Mechanical Couplings, NPS 1-1/2 (DN 40) and Smaller: Suitable for joining PE pipe to PE pipe.
    - a. PE body with molded-in, stainless steel support ring.
    - b. Seals: NBR.
    - c. Acetal collets.
    - d. Electro-zinc-plated steel stiffener.
  6. Plastic Mechanical Couplings, NPS 2 (DN 50) and Larger: Suitable for joining PE pipe to PE pipe, steel pipe to PE pipe, or steel pipe to steel pipe.
    - a. Fiber-reinforced plastic body.
    - b. PE body tube.
    - c. Seals: NBR.
    - d. Acetal collets.
    - e. Stainless steel bolts, nuts, and washers.
  7. Steel Mechanical Couplings: Suitable for joining plain-end PE pipe to PE pipe, steel pipe to PE pipe, or steel pipe to steel pipe.
    - a. Stainless steel flanges and tube with epoxy finish.
    - b. Seals: NBR.
    - c. Stainless steel bolts, washers, and nuts.
    - d. Factory-installed anode for steel-body couplings installed underground.

## 2.4 PIPING SPECIALTIES

### A. Appliance Flexible Connectors:

1. Indoor, Fixed-Appliance Flexible Connectors: Comply with ANSI Z21.24.
2. Indoor, Movable-Appliance Flexible Connectors: Comply with ANSI Z21.69.
3. Outdoor, Appliance Flexible Connectors: Comply with ANSI Z21.75.
4. Corrugated, stainless steel tubing with polymer coating.
5. Operating-Pressure Rating: 0.5 psig (3.45 kPa).
6. End Fittings: Zinc-coated steel.
7. Threaded Ends: Comply with ASME B1.20.1.
8. Maximum Length: 72 inches (1830 mm).

### B. Quick-Disconnect Devices: Comply with ANSI Z21.41.

1. Copper-alloy convenience outlet and matching plug connector.
2. Seals: Nitrile.
3. Hand operated with automatic shutoff when disconnected.
4. For indoor or outdoor applications.
5. Adjustable, retractable restraining cable.

### C. Y-Pattern Strainers:

1. Body: ASTM A126, Class B, cast iron with bolted cover and bottom drain connection.

2. End Connections: Threaded ends for NPS 2 (DN 50) and smaller; flanged ends for NPS 2-1/2 (DN 65) and larger.
3. Strainer Screen: 40-mesh startup strainer, and perforated stainless steel basket with 50 percent free area.
4. CWP Rating: 125 psig (862 kPa).

D. Basket Strainers:

1. Body: ASTM A126, Class B, high-tensile cast iron with bolted cover and bottom drain connection.
2. End Connections: Threaded ends for NPS 2 (DN 50) and smaller; flanged ends for NPS 2-1/2 (DN 65) and larger.
3. Strainer Screen: 40-mesh startup strainer, and perforated stainless steel basket with 50 percent free area.
4. CWP Rating: 125 psig (862 kPa).

E. T-Pattern Strainers:

1. Body: Ductile or malleable iron with removable access coupling and end cap for strainer maintenance.
2. End Connections: Grooved ends.
3. Strainer Screen: 40-mesh startup strainer, and perforated stainless steel basket with 57 percent free area.
4. CWP Rating: 750 psig (5170 kPa).

F. Weatherproof Vent Cap:

1. Cast- or malleable-iron increaser fitting with corrosion-resistant wire screen, with free area at least equal to cross-sectional area of connecting pipe and threaded-end connection.

## 2.5 JOINING MATERIALS

- A. Joint Compound and Tape: Suitable for natural gas.
- B. Welding Filler Metals: Comply with AWS D10.12/D10.12M for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.
- C. Brazing Filler Metals: Alloy with melting point greater than 1000 deg F (540 deg C) complying with AWS A5.8/A5.8M. Brazing alloys containing more than 0.05 percent phosphorus are prohibited.

## 2.6 MANUAL GAS SHUTOFF VALVES

- A. See "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles for where each valve type is applied in various services.
- B. General Requirements for Metallic Valves, NPS 2 (DN 50) and Smaller: Comply with ASME B16.33.
  1. CWP Rating: 125 psig (862 kPa).
  2. Threaded Ends: Comply with ASME B1.20.1.
  3. Dryseal Threads on Flare Ends: Comply with ASME B1.20.3.

4. Tamperproof Feature: Locking feature for valves indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
  5. Listed and labeled by an NRTL acceptable to authorities having jurisdiction for valves 1 inch (25 mm) and smaller.
  6. Service Mark: Valves NPS 1-1/4 to NPS 2 (DN 32 to DN 50) having initials "WOG" permanently marked on valve body.
- C. General Requirements for Metallic Valves, NPS 2-1/2 (DN 65) and Larger: Comply with ASME B16.38.
1. CWP Rating: 125 psig (862 kPa).
  2. Flanged Ends: Comply with ASME B16.5 for steel flanges.
  3. Tamperproof Feature: Locking feature for valves indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
  4. Service Mark: Initials "WOG" permanently marked on valve body.
- D. One-Piece, Bronze Ball Valve with Bronze Trim: MSS SP-110.
1. Body: Bronze, complying with ASTM B584.
  2. Ball: Chrome-plated brass.
  3. Stem: Bronze; blowout proof.
  4. Seats: Reinforced TFE; blowout proof.
  5. Packing: Separate packnut with adjustable-stem packing threaded ends.
  6. Ends: Threaded, flared, or socket as indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
  7. CWP Rating: 600 psig (4140 kPa).
  8. Listing: Valves NPS 1 (DN 25) and smaller are to be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
  9. Service: Suitable for natural-gas service with "WOG" indicated on valve body.
- E. Two-Piece, Full-Port, Bronze Ball Valves with Bronze Trim: MSS SP-110.
1. Body: Bronze, complying with ASTM B584.
  2. Ball: Chrome-plated bronze.
  3. Stem: Bronze; blowout proof.
  4. Seats: Reinforced TFE; blowout proof.
  5. Packing: Threaded-body packnut design with adjustable-stem packing.
  6. Ends: Threaded, flared, or socket as indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
  7. CWP Rating: 600 psig (4140 kPa).
  8. Listing: Valves NPS 1 (DN 25) and smaller are to be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
  9. Service: Suitable for natural-gas service with "WOG" indicated on valve body.
- F. Bronze Plug Valves: MSS SP-78.
1. Body: Bronze, complying with ASTM B584.
  2. Plug: Bronze.
  3. Ends: Threaded, socket, or flanged as indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
  4. Operator: Square head or lug type with tamperproof feature where indicated.
  5. Pressure Class: 125 psig (862 kPa).
  6. Listing: Valves NPS 1 (DN 25) and smaller are to be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
  7. Service: Suitable for natural-gas service with "WOG" indicated on valve body.
- G. Cast-Iron, Nonlubricated Plug Valves: MSS SP-78.

1. Body: Cast iron, complying with ASTM A126, Class B.
2. Plug: Bronze or nickel-plated cast iron.
3. Seat: Coated with thermoplastic.
4. Stem Seal: Compatible with natural gas.
5. Ends: Threaded or flanged as indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
6. Operator: Square head or lug type with tamperproof feature where indicated.
7. Pressure Class: 125 psig (862 kPa).
8. Listing: Valves NPS 1 (DN 25) and smaller are to be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
9. Service: Suitable for natural-gas service with "WOG" indicated on valve body.

H. Cast-Iron, Lubricated Plug Valves: MSS SP-78.

1. Body: Cast iron, complying with ASTM A126, Class B.
2. Plug: Bronze or nickel-plated cast iron.
3. Seat: Coated with thermoplastic.
4. Stem Seal: Compatible with natural gas.
5. Ends: Threaded or flanged as indicated in "Underground, Manual Gas Shutoff Valve Schedule" and "Aboveground, Manual Gas Shutoff Valve Schedule" articles.
6. Operator: Square head or lug type with tamperproof feature where indicated.
7. Pressure Class: 125 psig (862 kPa).
8. Listing: Valves NPS 1 (DN 25) and smaller are to be listed and labeled by an NRTL acceptable to authorities having jurisdiction.
9. Service: Suitable for natural-gas service with "WOG" indicated on valve body.

I. PE Ball Valves: Comply with ASME B16.40.

1. Body: PE.
2. Ball: PE.
3. Stem: Acetal.
4. Seats and Seals: Nitrile.
5. Ends: Plain or fusible to match piping.
6. CWP Rating: 80 psig (552 kPa).
7. Operating Temperature: Minus 20 to plus 140 deg F (Minus 29 to plus 60 deg C).
8. Operator: Nut or flat head for key operation.
9. Include plastic valve extension.
10. Include tamperproof locking feature for valves where indicated on Drawings.

J. Valve Boxes:

1. Cast-iron, two-section box.
2. Top section with cover with "GAS" lettering.
3. Bottom section with base to fit over valve and barrel a minimum of 5 inches (125 mm) in diameter.
4. Adjustable cast-iron extensions of length required for depth of bury.
5. Include tee-handle, steel operating wrench with socket end fitting valve nut or flat head, and with stem of length required to operate valve.

## 2.7 PRESSURE REGULATORS

A. General Requirements:

1. Single stage and suitable for natural gas.
2. Steel jacket and corrosion-resistant components.
3. Elevation compensator.
4. End Connections: Threaded for regulators NPS 2 (DN 50) and smaller; flanged for regulators NPS 2-1/2 (DN 65) and larger.



- B. Service Pressure Regulators: Comply with ANSI Z21.80A.
  - 1. Body and Diaphragm Case: Cast iron or die-cast aluminum.
  - 2. Springs: Zinc-plated steel; interchangeable.
  - 3. Diaphragm Plate: Zinc-plated steel.
  - 4. Seat Disc: NBR; resistant to gas impurities, abrasion, and deformation at the valve port.
  - 5. Orifice: Aluminum; interchangeable.
  - 6. Seal Plug: UV-stabilized, mineral-filled nylon.
  - 7. Single-port, self-contained regulator with orifice no larger than required at maximum pressure inlet, and no pressure sensing piping external to regulator.
  - 8. Pressure regulator is to maintain discharge pressure setting downstream and is to not exceed 150 percent of design discharge pressure at shutoff.
  - 9. Overpressure Protection Device: Factory mounted on pressure regulator.
  - 10. Atmospheric Vent: Factory- or field-installed, stainless steel screen in opening if not connected to vent piping.
  - 11. Maximum Inlet Pressure: 100 psig (690 kPa).
  
- C. Line Pressure Regulators: Comply with ANSI Z21.80A.
  - 1. Body and Diaphragm Case: Cast iron or die-cast aluminum.
  - 2. Springs: Zinc-plated steel; interchangeable.
  - 3. Diaphragm Plate: Zinc-plated steel.
  - 4. Seat Disc: NBR; resistant to gas impurities, abrasion, and deformation at the valve port.
  - 5. Orifice: Aluminum; interchangeable.
  - 6. Seal Plug: UV-stabilized, mineral-filled nylon.
  - 7. Single-port, self-contained regulator with orifice no larger than required at maximum pressure inlet, and no pressure sensing piping external to regulator.
  - 8. Pressure regulator is to maintain discharge pressure setting downstream and is to not exceed 150 percent of design discharge pressure at shutoff.
  - 9. Overpressure Protection Device: Factory mounted on pressure regulator.
  - 10. Atmospheric Vent: Factory- or field-installed, stainless steel screen in opening if not connected to vent piping.
  - 11. Maximum Inlet Pressure: 2 psig (13.8 kPa).
  
- D. Appliance Pressure Regulators: Comply with ANSI Z21.18.
  - 1. Body and Diaphragm Case: Die-cast aluminum.
  - 2. Springs: Zinc-plated steel; interchangeable.
  - 3. Diaphragm Plate: Zinc-plated steel.
  - 4. Seat Disc: NBR.
  - 5. Seal Plug: UV-stabilized, mineral-filled nylon.
  - 6. Factory-Applied Finish: Minimum three-layer polyester and polyurethane paint finish.
  - 7. Regulator may include vent limiting device, instead of vent connection, if approved by authorities having jurisdiction.
  - 8. Maximum Inlet Pressure: 2 psig (13.8 kPa).

## 2.8 DIELECTRIC FITTINGS

- A. General Requirements: Assembly of copper alloy and ferrous materials with separating nonconductive insulating material. Include end connections compatible with pipes to be joined.
  
- B. Dielectric Unions:
  - 1. Description:
    - a. Standard: ASSE 1079.
    - b. Pressure Rating: 125 psig (860 kPa) minimum at 180 deg F (82 deg C).
    - c. End Connections: Solder-joint copper alloy and threaded ferrous.

- C. Dielectric Flanges:
  - 1. Description:
    - a. Standard: ASSE 1079.
    - b. Factory-fabricated, bolted, companion-flange assembly.
    - c. Pressure Rating: 125 psig (860 kPa) minimum at 180 deg F (82 deg C).
    - d. End Connections: Solder-joint copper alloy and threaded ferrous; threaded solder-joint copper alloy and threaded ferrous.
- D. Dielectric-Flange Insulating Kits:
  - 1. Description:
    - a. Nonconducting materials for field assembly of companion flanges.
    - b. Pressure Rating: 150 psig (1035 kPa).
    - c. Gasket: Neoprene or phenolic.
    - d. Bolt Sleeves: Phenolic or polyethylene.
    - e. Washers: Phenolic with steel backing washers.

## 2.9 LABELING AND IDENTIFYING

- A. Detectable Warning Tape: Acid- and alkali-resistant, PE film warning tape manufactured for marking and identifying underground utilities, a minimum of 6 inches (150 mm) wide and 4 mils (0.1 mm) thick, continuously inscribed with a description and rated pressure of utility, with metallic core encased in a protective jacket for corrosion protection, detectable by metal detector when tape is buried up to 30 inches (750 mm) deep; colored yellow.
- B. Label and identify gas piping and pressure outside a multitenant building by tenant.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine roughing-in for natural-gas piping system to verify actual locations of piping connections before equipment installation.
- B. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 PREPARATION

- A. Inspect natural-gas piping in accordance with NFPA 54 and the International Fuel Gas Code to determine that natural-gas utilization devices are turned off in piping section affected.
- B. Comply with NFPA 54 and the International Fuel Gas Code requirements for preventing accidental ignition.

### 3.3 INSTALLATION OF OUTDOOR PIPING

- A. Comply with NFPA 54 and the International Fuel Gas Code for installation and purging of natural-gas piping.

- B. Install underground, natural-gas piping buried at least 36 inches (900 mm) below finished grade. Comply with requirements in Section 312000 "Earth Moving" for excavating, trenching, and backfilling.
  - 1. If natural-gas piping is installed less than 36 inches (900 mm) below finished grade, install it in containment conduit.
- C. Install underground, PE, natural-gas piping in accordance with ASTM D2774.
- D. Steel Piping with Protective Coating:
  - 1. Apply joint cover kits to pipe after joining to cover, seal, and protect joints.
  - 2. Replace pipe having damaged PE coating with new pipe.
- E. Copper Tubing with Protective Coating:
  - 1. Apply joint cover kits over tubing to cover, seal, and protect joints.
  - 2. Repair damage to PE coating on pipe as recommended in writing by protective coating manufacturer.
- F. Install fittings for changes in direction and branch connections.
- G. Install pressure gauge upstream and downstream from each service regulator. Pressure gauges are specified in Section 230519 "Meters and Gauges for HVAC Piping."

#### 3.4 INSTALLATION OF INDOOR PIPING

- A. Comply with NFPA 54 and the International Fuel Gas Code for installation and purging of natural-gas piping.
- B. Drawing plans, schematics, and diagrams indicate general location and arrangement of piping systems. Indicated locations and arrangements are used to size pipe and calculate friction loss, expansion, and other design considerations. Install piping as indicated unless deviations to layout are approved on Coordination Drawings.
- C. Arrange for pipe spaces, chases, slots, sleeves, and openings in building structure during progress of construction, to allow for mechanical installations.
- D. Do not install piping in concealed locations unless sleeved with the sleeve open at both ends.
- E. Install piping indicated to be exposed and piping in equipment rooms and service areas at right angles or parallel to building walls. Diagonal runs are prohibited unless specifically indicated otherwise.
- F. Where installing piping above accessible ceilings, allow sufficient space for ceiling panel removal.
- G. Locate valves for easy access. Do not locate valves within return air plenums.
- H. Install natural-gas piping at uniform grade of 2 percent down toward drip and sediment traps.
- I. Install piping free of sags and bends.
- J. Install fittings for changes in direction and branch connections.

- K. Verify final equipment locations for roughing-in.
- L. Comply with requirements in Sections specifying gas-fired appliances and equipment for roughing-in requirements.
- M. Drips and Sediment Traps: Install drips at points where condensate may collect, including service-meter outlets. Locate where accessible to permit cleaning and emptying. Do not install where condensate is subject to freezing.
  - 1. Construct drips and sediment traps using tee fitting with bottom outlet plugged or capped. Use nipple a minimum length of 3 pipe diameters, but not less than 3 inches (75 mm) long and same size as connected pipe. Install with space below bottom of drip to remove plug or cap.
- N. Extend relief vent connections for service regulators, line regulators, and overpressure protection devices to outdoors and terminate with weatherproof vent cap.
- O. Conceal pipe installations in walls, pipe spaces, utility spaces, above ceilings, below grade or floors, and in floor channels unless indicated to be exposed to view.
- P. Concealed Location Installations: Except as specified below, install concealed natural-gas piping and piping installed under the building in containment conduit constructed of steel pipe with welded joints as described in Part 2. Install a vent pipe from containment conduit to outdoors and terminate with weatherproof vent cap.
  - 1. Above Accessible Ceilings: Natural-gas piping, fittings, valves, and regulators may be installed in accessible spaces without containment conduit.
  - 2. In Floors: Install natural-gas piping with welded or brazed joints and protective coating in cast-in-place concrete floors. Cover piping to be cast in concrete slabs with minimum of 1-1/2 inches (38 mm) of concrete. Piping may not be in physical contact with other metallic structures such as reinforcing rods or electrically neutral conductors. Do not embed piping in concrete slabs containing quick-set additives or cinder aggregate.
  - 3. In Floor Channels: Install natural-gas piping in floor channels. Channels must have cover and be open to space above cover for ventilation.
  - 4. In Walls or Partitions: Protect tubing installed inside partitions or hollow walls from physical damage using steel striker barriers at rigid supports.
    - a. Exception: Tubing passing through partitions or walls does not require striker barriers.
  - 5. Prohibited Locations:
    - a. Do not install natural-gas piping in or through circulating air ducts, clothes or trash chutes, chimneys or gas vents (flues), ventilating ducts, or dumbwaiter or elevator shafts.
    - b. Do not install natural-gas piping in solid walls or partitions.
- Q. Use eccentric reducer fittings to make reductions in pipe sizes. Install fittings with level side down.
- R. Connect branch piping from top or side of horizontal piping.
- S. Install unions in pipes NPS 2 (DN 50) and smaller, adjacent to each valve, at final connection to each piece of equipment. Unions are not required at flanged connections.

- T. Do not use natural-gas piping as grounding electrode.
- U. Install strainer on inlet of each line-pressure regulator and automatic or electrically operated valve.
- V. Install pressure gauge upstream and downstream from each line regulator. Pressure gauges are specified in Section 230519 "Meters and Gauges for HVAC Piping."
- W. Install sleeves for piping penetrations of walls, ceilings, and floors. Comply with requirements for sleeves specified in Section 230517 "Sleeves and Sleeve Seals for HVAC Piping."
- X. Install sleeve seals for piping penetrations of concrete walls and slabs. Comply with requirements for sleeve seals specified in Section 230517 "Sleeves and Sleeve Seals for HVAC Piping."
- Y. Install escutcheons for piping penetrations of walls, ceilings, and floors. Comply with requirements for escutcheons specified in Section 230518 "Escutcheons for HVAC Piping."

### 3.5 INSTALLATION OF VALVES

- A. Install manual gas shutoff valve for each gas appliance ahead of corrugated stainless steel tubing, aluminum, or copper connector.
- B. Install underground valves with valve boxes.
- C. Install regulators and overpressure protection devices with maintenance access space adequate for servicing and testing.
- D. Install earthquake valves aboveground outside buildings according to listing.
- E. Install anode for metallic valves in underground PE piping.
- F. Do not install valves in return-air plenums.

### 3.6 PIPING JOINT CONSTRUCTION

- A. Ream ends of pipes and tubes and remove burrs.
- B. Remove scale, slag, dirt, and debris from inside and outside of pipe and fittings before assembly.
- C. Threaded Joints:
  1. Thread pipe with tapered pipe threads complying with ASME B1.20.1.
  2. Cut threads full and clean using sharp dies.
  3. Ream threaded pipe ends to remove burrs and restore full inside diameter of pipe.
  4. Apply appropriate tape or thread compound to external pipe threads unless dryseal threading is specified.
  5. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged. Do not use pipe sections that have cracked or open welds.
- D. Welded Joints:

1. Construct joints in accordance with AWS D10.12/D10.12M, using qualified processes and welding operators.
  2. Bevel plain ends of steel pipe.
  3. Patch factory-applied protective coating as recommended by manufacturer at field welds and where damage to coating occurs during construction.
- E. Brazed Joints: Construct joints in accordance with AWS's "Brazing Handbook," "Pipe and Tube" Chapter.
- F. Flanged Joints: Install gasket material, size, type, and thickness appropriate for natural-gas service. Install gasket concentrically positioned.
- G. Flared Joints: Cut tubing with roll cutting tool. Flare tube end with tool to result in flare dimensions complying with SAE J513. Tighten finger tight, and then use wrench. Do not overtighten.
- H. PE Piping Heat-Fusion Joints: Clean and dry joining surfaces by wiping with clean cloth or paper towels. Join in accordance with ASTM D2657.
1. Plain-End Pipe and Fittings: Use butt fusion.
  2. Plain-End Pipe and Socket Fittings: Use socket fusion.

### 3.7 INSTALLATION OF HANGERS AND SUPPORTS

- A. Comply with requirements for seismic-restraint devices specified in Section 230548 "Vibration and Seismic Controls for HVAC."
- B. Comply with requirements in Section 230529 "Hangers and Supports for HVAC Piping and Equipment" for hangers, supports, and anchor devices.
- C. Install hangers for steel piping and copper tubing, with maximum horizontal spacing and minimum rod diameters, to comply with MSS SP-58, locally enforced codes, and authorities having jurisdiction requirements, whichever are most stringent.
- D. Install hangers for corrugated stainless steel tubing, with maximum horizontal spacing and minimum rod diameters, to comply with manufacturer's written instructions, locally enforced codes, and authorities having jurisdiction requirements, whichever are most stringent.
- E. Support horizontal piping within 12 inches (300 mm) of each fitting.
- F. Support vertical runs of steel piping and copper tubing to comply with MSS SP-58, locally enforced codes, and authorities having jurisdiction requirements, whichever are most stringent.
- G. Support vertical runs of corrugated stainless steel tubing to comply with manufacturer's written instructions, locally enforced codes, and authorities having jurisdiction requirements, whichever are most stringent.

### 3.8 PIPING CONNECTIONS

- A. Connect to utility's gas main according to utility's procedures and requirements.
- B. Install natural-gas piping electrically continuous, and bonded to gas-appliance equipment grounding conductor of the circuit powering the appliance in accordance with NFPA 70.

- C. Where installing piping adjacent to appliances, allow space for service and maintenance of appliances.
- D. Connect piping to appliances using manual gas shutoff valves and unions. Install valve within 72 inches (1800 mm) of each gas-fired appliance and equipment. Install union between valve and appliances or equipment.

### 3.9 LABELING AND IDENTIFICATION

- A. Comply with requirements in Section 230553 "Identification for HVAC Piping and Equipment" for piping and valve identification.

### 3.10 CONCRETE BASES

- A. Concrete Bases: Anchor equipment to concrete base in accordance with seismic codes at Project. See Section 230548 "Vibration and Seismic Controls for HVAC."
  - 1. Construct concrete bases of dimensions indicated, but not less than 4 inches (100 mm) larger in both directions than supported unit.
  - 2. Install dowel rods to connect concrete base to concrete floor. Unless otherwise indicated, install dowel rods on 18-inch (450-mm) centers around the full perimeter of the base.
  - 3. Install epoxy-coated anchor bolts for supported equipment that extend through concrete base, and anchor into structural concrete floor.
  - 4. Place and secure anchorage devices. Use supported equipment manufacturer's setting drawings, templates, diagrams, instructions, and directions furnished with items to be embedded.
  - 5. Install anchor bolts to elevations required for proper attachment to supported equipment.
  - 6. Use 3000 psig (20.7 MPa), 28-day, compressive-strength concrete and reinforcement as specified in Section 033000 "Cast-in-Place Concrete."

### 3.11 FIELD QUALITY CONTROL

- A. Tests and Inspections:
  - 1. Test, inspect, and purge natural gas in accordance with NFPA 54 and the International Fuel Gas Code and authorities having jurisdiction.
  - 2. Natural-gas piping will be considered defective if it does not pass tests and inspections.
- B. Prepare test and inspection reports.

### 3.12 OUTDOOR PIPING SCHEDULE

- A. Underground natural-gas piping is to be one of the following:
  - 1. PE pipe and fittings joined by heat fusion, or mechanical couplings; service-line risers with tracer wire terminated in an accessible location.
  - 2. Steel pipe with wrought-steel fittings and welded joints, or mechanical couplings. Coat pipe and fittings with protective coating for steel piping.
- B. Aboveground natural-gas piping is to be one of the following:

1. Steel pipe with malleable-iron fittings and threaded joints.
2. Steel pipe with wrought-steel fittings and welded joints.

3.13 INDOOR PIPING SCHEDULE FOR SYSTEM PRESSURES LESS THAN 0.5 PSIG (3.45 kPa)

- A. Aboveground, branch piping NPS 1 (DN 25) and smaller is to be one of the following:
1. Corrugated stainless steel tubing with mechanical fittings having socket or threaded ends to match adjacent piping.
  2. Annealed-temper, tin-lined copper tube with flared joints and fittings.
  3. Annealed-temper, copper tube with wrought-copper fittings and brazed joints.
  4. Aluminum tube with flared fittings and joints.
  5. Steel pipe with malleable-iron fittings and threaded joints.
- B. Aboveground, distribution piping is to be one of the following:
1. Steel pipe with malleable-iron fittings and threaded joints.
  2. Steel pipe with wrought-steel fittings and welded joints.
  3. Drawn-temper copper tube with wrought-copper fittings and brazed joints.

3.14 INDOOR PIPING SCHEDULE FOR SYSTEM PRESSURES MORE THAN 0.5 PSIG (3.45 kPa) AND LESS THAN 5 PSIG (34.5 kPa)

- A. Aboveground, branch piping NPS 1 (DN 25) and smaller is to be one of the following:
1. Corrugated stainless steel tubing with mechanical fittings having socket or threaded ends to match adjacent piping.
  2. Annealed-temper, tin-lined copper tube with flared joints and fittings.
  3. Annealed-temper copper tube with wrought-copper fittings and brazed joints.
  4. Aluminum tube with flared fittings and joints.
  5. Steel pipe with malleable-iron fittings and threaded joints.
- B. Aboveground, distribution piping is to be one of the following:
1. Steel pipe with malleable-iron fittings and threaded joints.
  2. Steel pipe with steel welding fittings and welded joints.
  3. Drawn-temper copper tube with wrought-copper fittings and brazed joints.

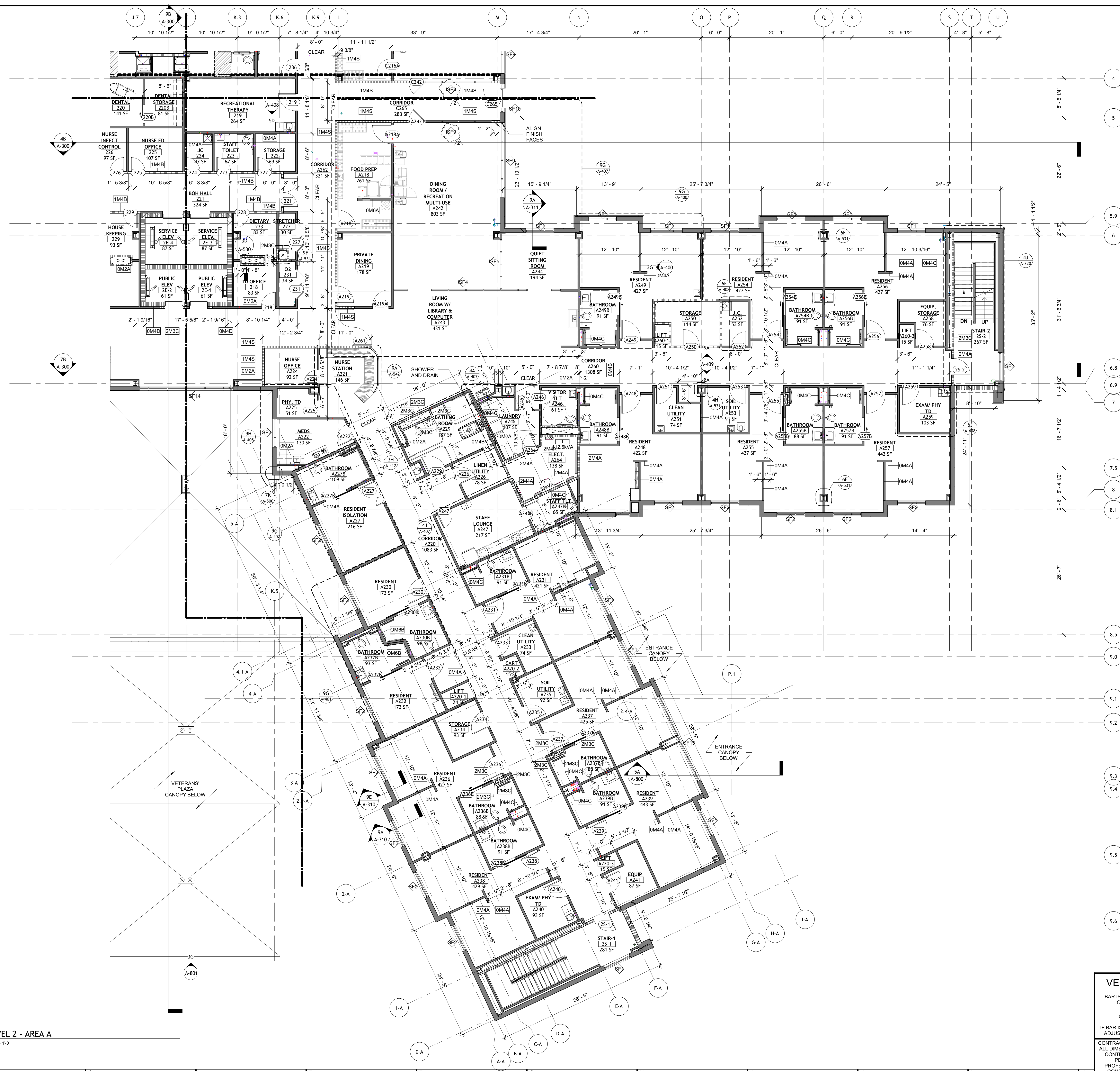
3.15 ABOVEGROUND, MANUAL GAS SHUTOFF VALVE SCHEDULE

- A. Valves for pipe sizes NPS 2 (DN 50) and smaller at service meter are to be one of the following:
1. One-piece, bronze ball valve with bronze trim.
  2. Two-piece, full-port, bronze ball valves with bronze trim.
  3. Bronze plug valve.
- B. Valves for pipe sizes NPS 2-1/2 (DN 65) and larger at service meter are to be one of the following:
1. Two-piece, full-port, bronze ball valves with bronze trim.
  2. Bronze plug valve.
  3. Cast-iron, nonlubricated plug valve.

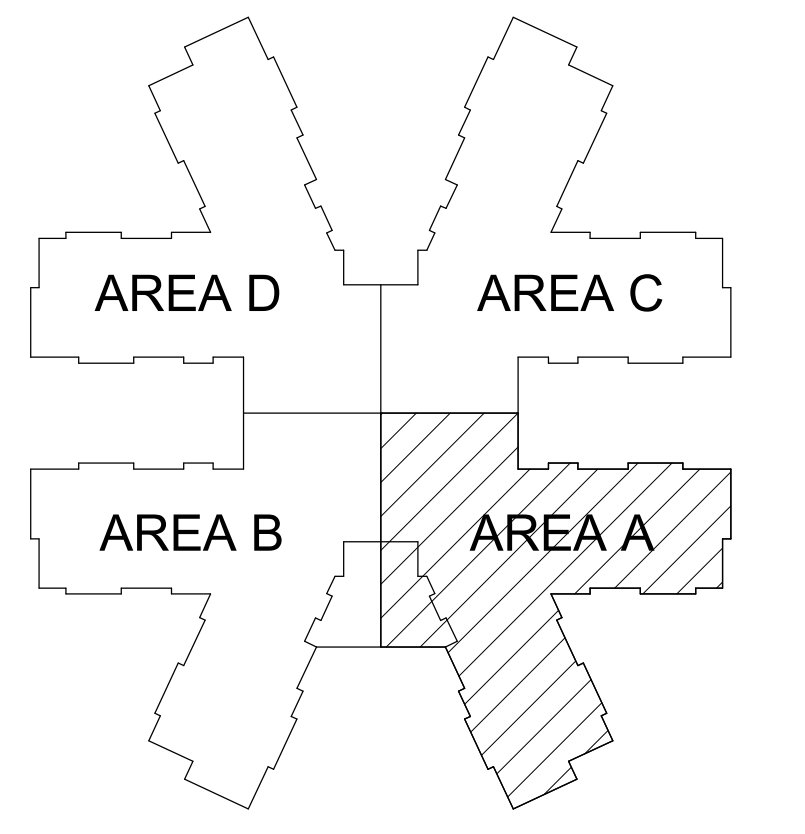


- C. Distribution piping valves for pipe sizes NPS 2 (DN 50) and smaller are to be one of the following:
  - 1. One-piece, bronze ball valve with bronze trim.
  - 2. Two-piece, full-port, bronze ball valves with bronze trim.
  - 3. Bronze plug valve.
  
- D. Distribution piping valves for pipe sizes NPS 2-1/2 (DN 65) and larger are to be one of the following:
  - 1. Two-piece, full-port, bronze ball valves with bronze trim.
  - 2. Bronze plug valve.
  - 3. Cast-iron, nonlubricated plug valve.
  
- E. Valves in branch piping for single appliance are to be one of the following:
  - 1. One-piece, bronze ball valve with bronze trim.
  - 2. Two-piece, full-port, bronze ball valves with bronze trim.
  - 3. Bronze plug valve.

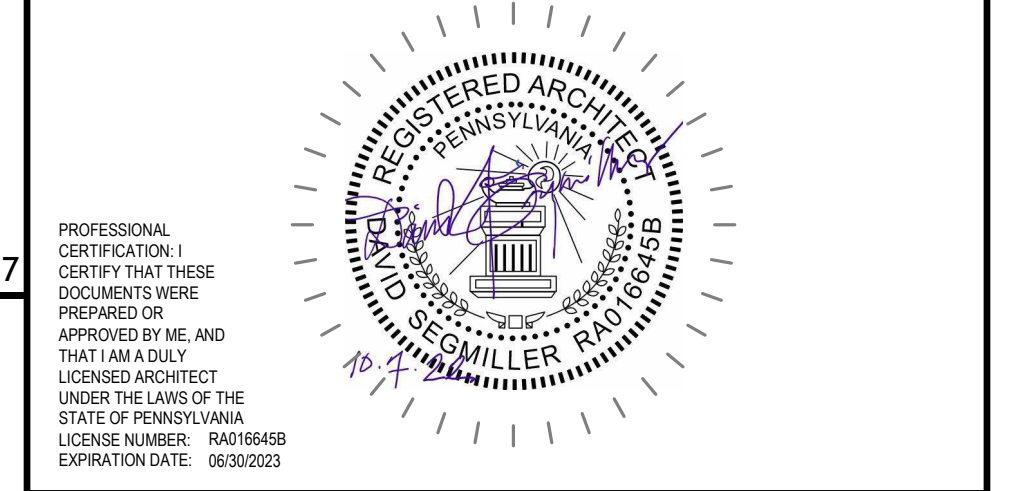
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2	12.13.2022	ADDENDUM 6



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COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF GENERAL SERVICES  
 HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
 DUNCANSVILLE, BLAIR COUNTY, PA

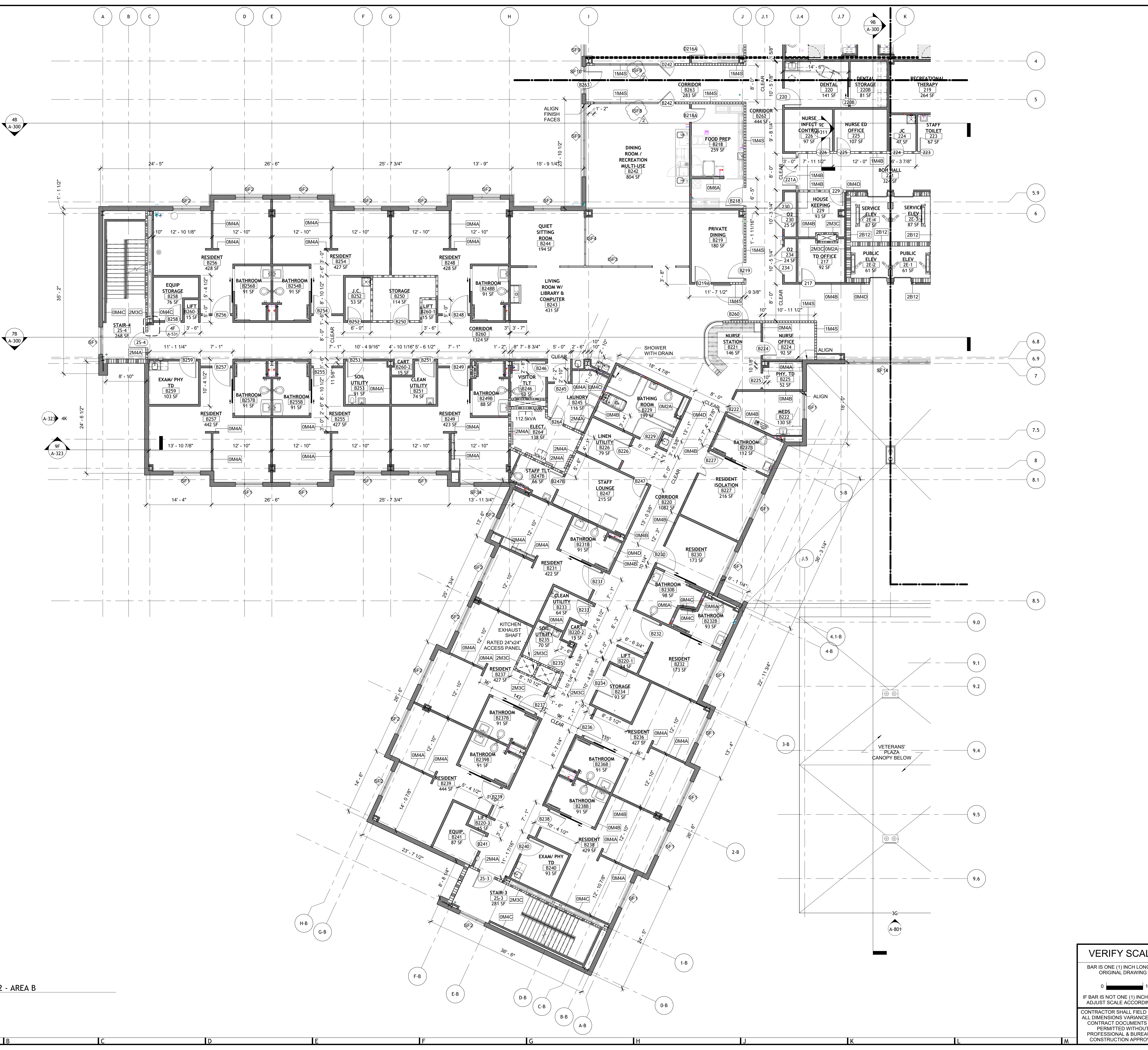
**PARTIAL FLOOR PLAN LEVEL 2 AREA A**

Drawn by: Author  
 Date: 10-07-2022  
 Drawing No.: **A-102a**

Checked by: Checker  
 Scale: 1/8" = 1'-0"  
 CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL

**9B LEVEL 2 - AREA A**  
 A-102 | A-102a | 1/8" = 1'-0"

**VERIFY SCALE**  
 BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING  
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**9B LEVEL 2 - AREA B**  
A-102 (A-102B) 1/8" = 1'-0"

**VERIFY SCALE**  
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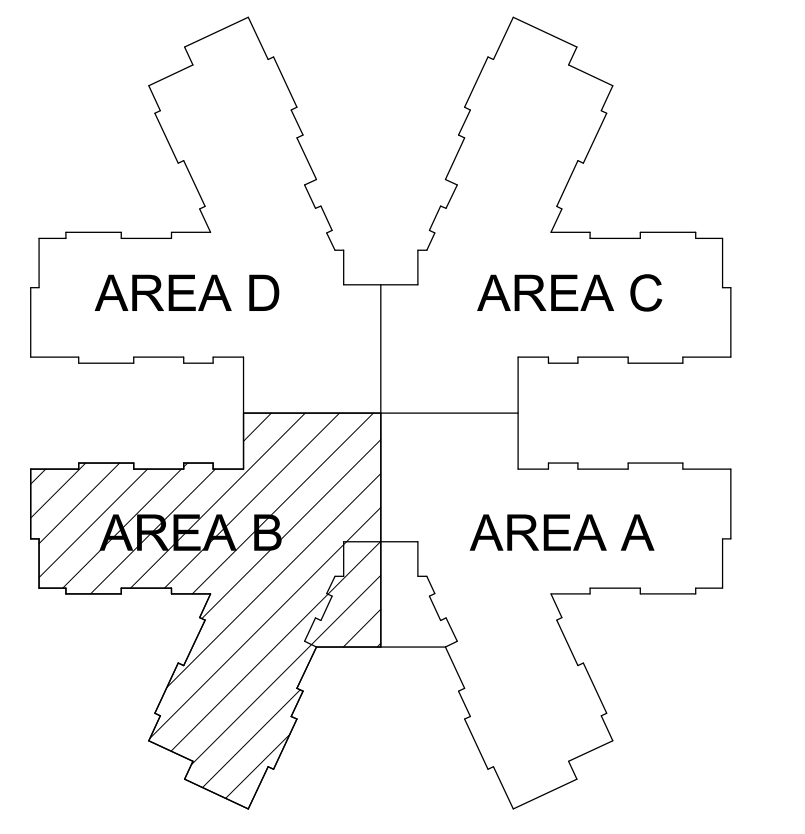
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**CONSTRUCTION OF NEW COMMUNITY LIVING  
CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANVILLE, BLAIR COUNTY, PA

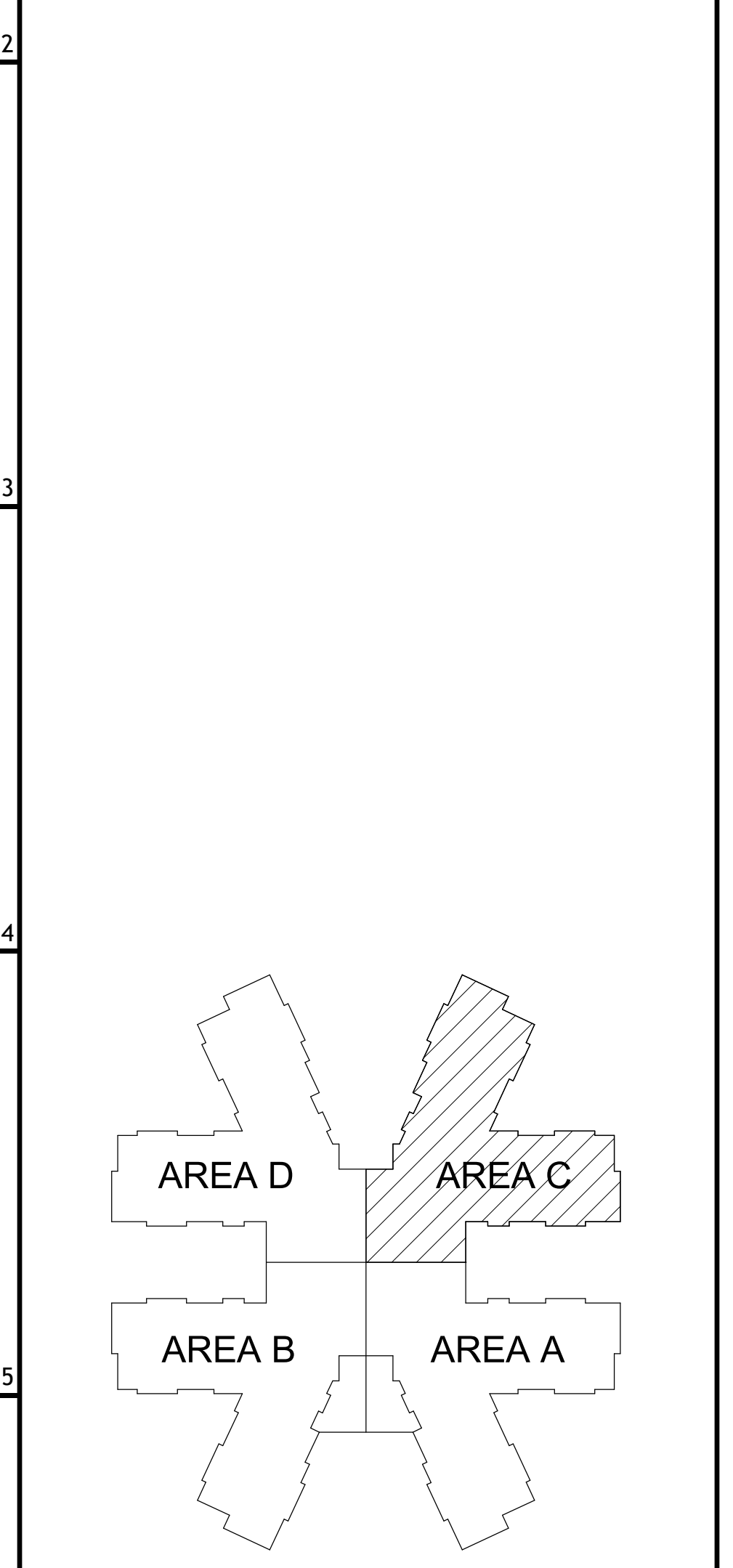
**PARTIAL FLOOR PLAN LEVEL 2 AREA B**

Drawn by	Date	Drawing No.
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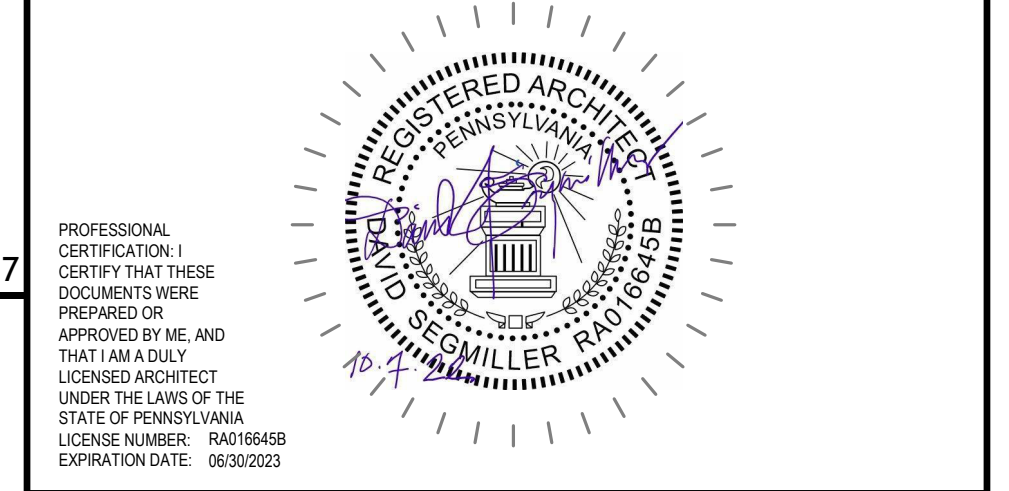


9A LEVEL 2 - AREA C  
A-102 A-102c 1/8" = 1'-0"

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**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANSVILLE, BLAIR COUNTY, PA  
**PARTIAL FLOOR PLAN LEVEL 2 AREA C**

Drawn by	Date	Drawing No.
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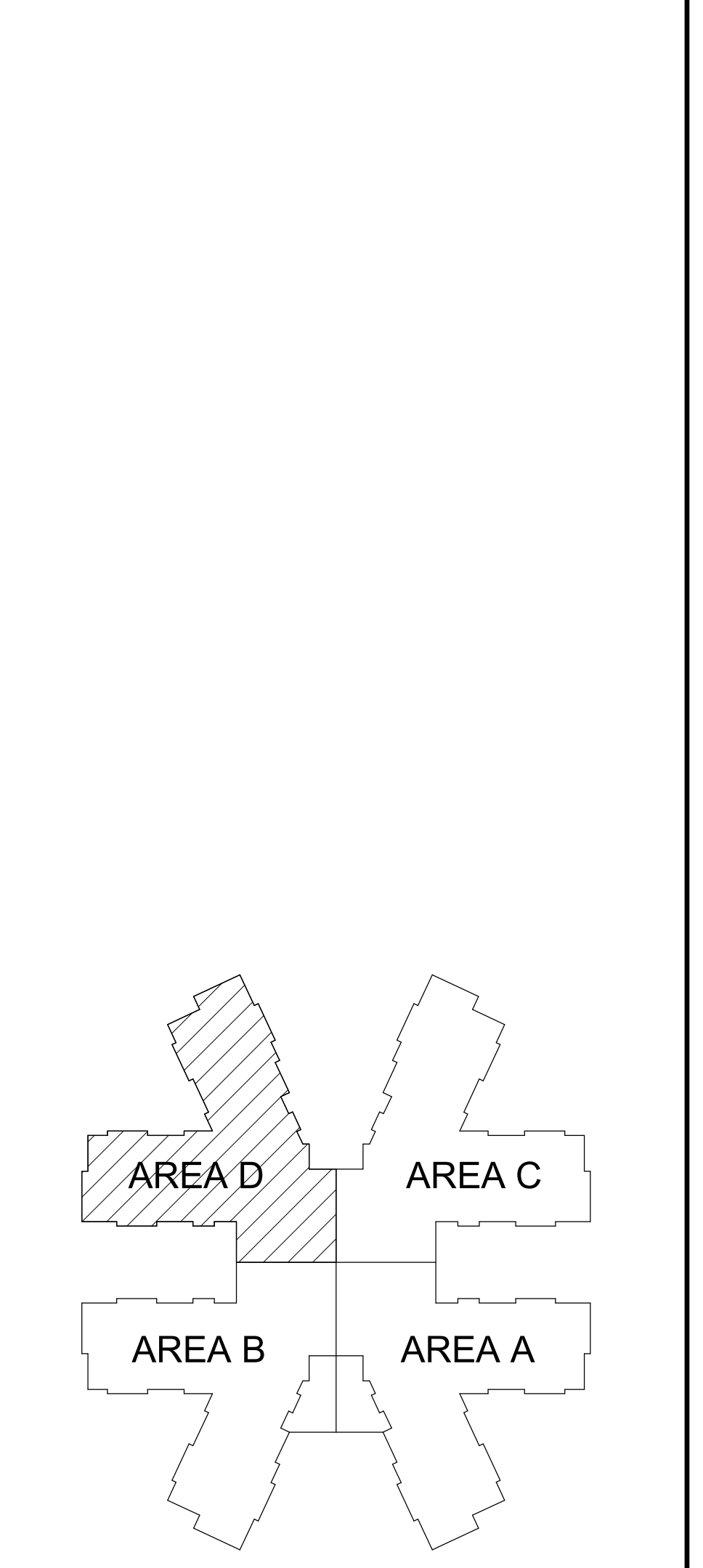
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**9A LEVEL 2 - AREA D**  
 A-102 A-102d 1/8" = 1'-0"

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no.	date	revision
1	12.09.2022	ADDENDUM 5
2	12.13.2022	ADDENDUM 6



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**COMMONWEALTH OF PENNSYLVANIA  
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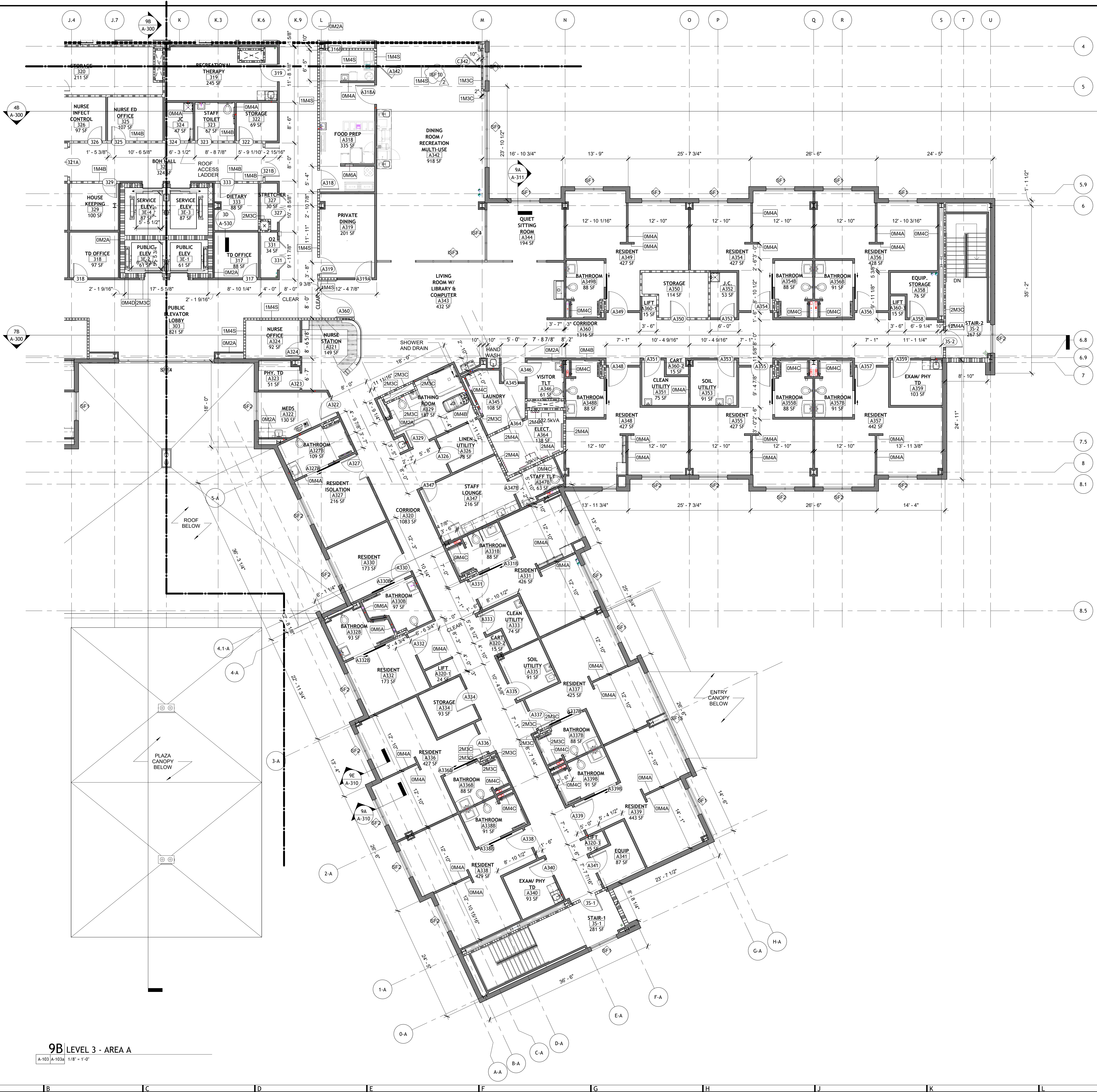
Project Number **D.G.S. C-0969-0017-001**

**CONSTRUCTION OF NEW COMMUNITY LIVING  
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**PARTIAL FLOOR PLAN LEVEL 2 AREA D**

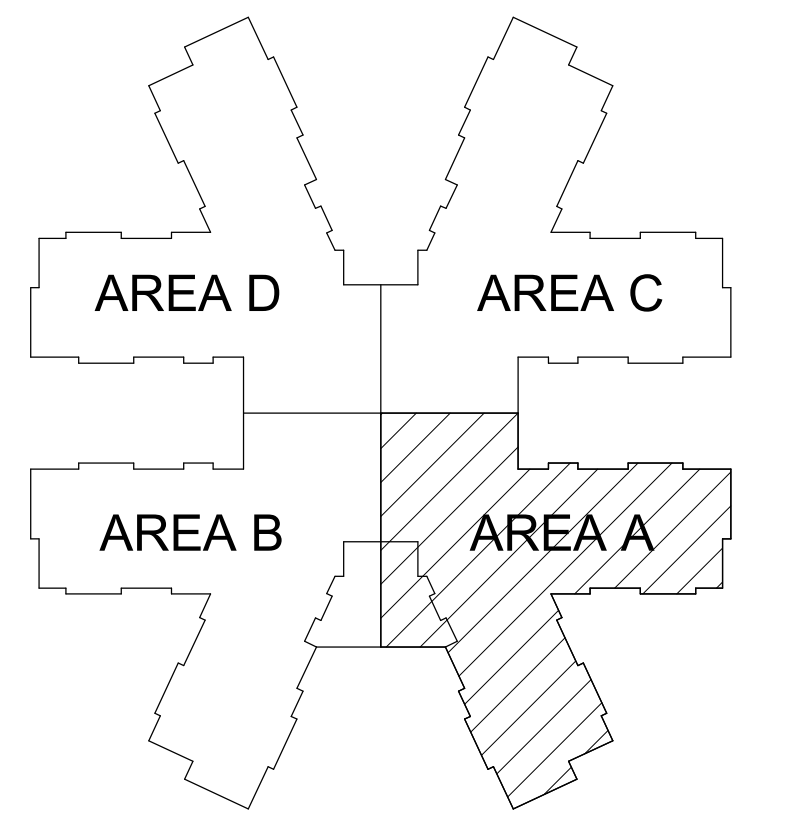
Drawn by: Author Date: 10-07-2022 Drawing No.: A-102d  
 Checked by: Checker Scale: 1/8" = 1'-0"

**A-102d**



**9B LEVEL 3 - AREA A**  
A-103 (A-103a) 1/8" = 1'-0"

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- STRUCTURAL ENGINEER**  
Hope Furrer Associates  
700 East Beaver Ave., Suite 3  
State College, PA 16801  
p. 814.234.8191 x 1106 f. 000.000.0000
- MECHANICAL & ELECTRICAL ENGINEER**  
BALA Consulting Engineers  
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King of Prussia, PA 19406  
p. 610.674.0905
- PLUMBING ENGINEER**  
VETERAN DESIGN & CONSTRUCTION, Inc.  
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Baltimore, MD 21228  
p. 443.543.5081 f. 000.000.0000
- CIVIL ENGINEERS**  
Keller Engineers, Inc.  
420 Allegheny St.  
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p. 814.696.7430 f. 000.000.0000



no.	date	revision
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
700 E. Pratt St., Suite 1200  
Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

**VERIFY SCALE**  
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING  
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**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANVILLE, BLAIR COUNTY, PA  
**PARTIAL FLOOR PLAN LEVEL 3 AREA A**

Drawn by	Date	Drawing No.
Author	10-07-2022	<b>A-103a</b>
Checked by	Scale	
Checker	1/8" = 1'-0"	

**ARCHITECT**  
Hord Coplan Macht, Inc.  
700 E. Pratt St. Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

**LANDSCAPE ARCHITECTURE**  
Hord Coplan Macht, Inc.  
700 E. Pratt St. Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

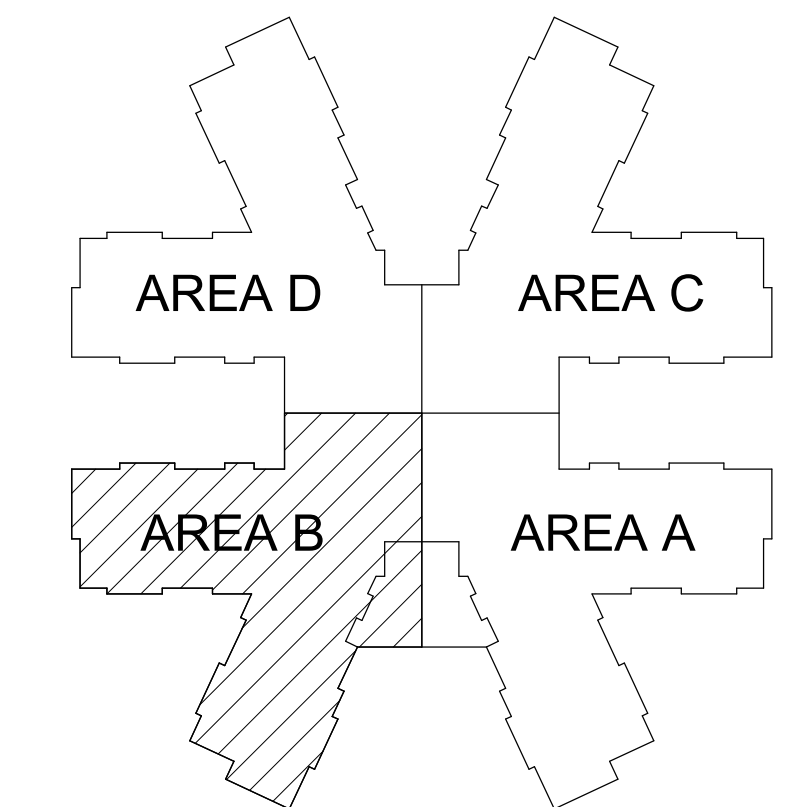
**INTERIOR DESIGN**  
Hord Coplan Macht, Inc.  
700 E. Pratt St. Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

**STRUCTURAL ENGINEER**  
Hope Furrer Associates  
700 East Beaver Ave. Suite 3  
State College, PA 16801  
p. 814.234.8191 x 1106 f. 000.000.0000

**MECHANICAL & ELECTRICAL ENGINEER**  
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443 South Gulph Rd  
King of Prussia, PA 19406  
p. 610.674.0905

**PLUMBING ENGINEER**  
VETERAN DESIGN & CONSTRUCTION, Inc.  
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Baltimore, MD 21228  
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**CIVIL ENGINEERS**  
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Hollidaysburg, PA 16648  
f. 000.000.0000



no.	date	revision
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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

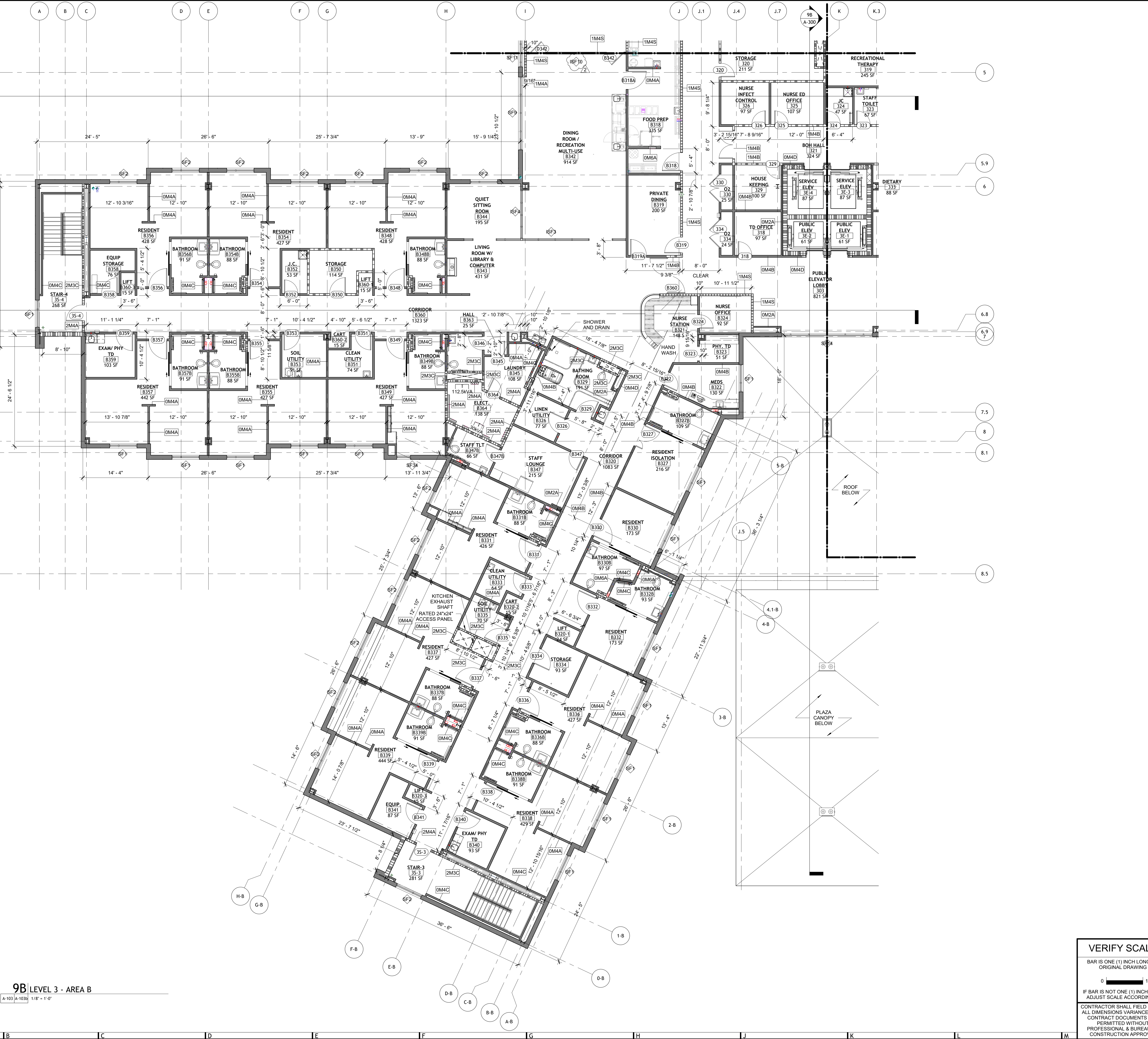
**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANVILLE, BLAIR COUNTY, PA

**PARTIAL FLOOR PLAN LEVEL 3 AREA B**

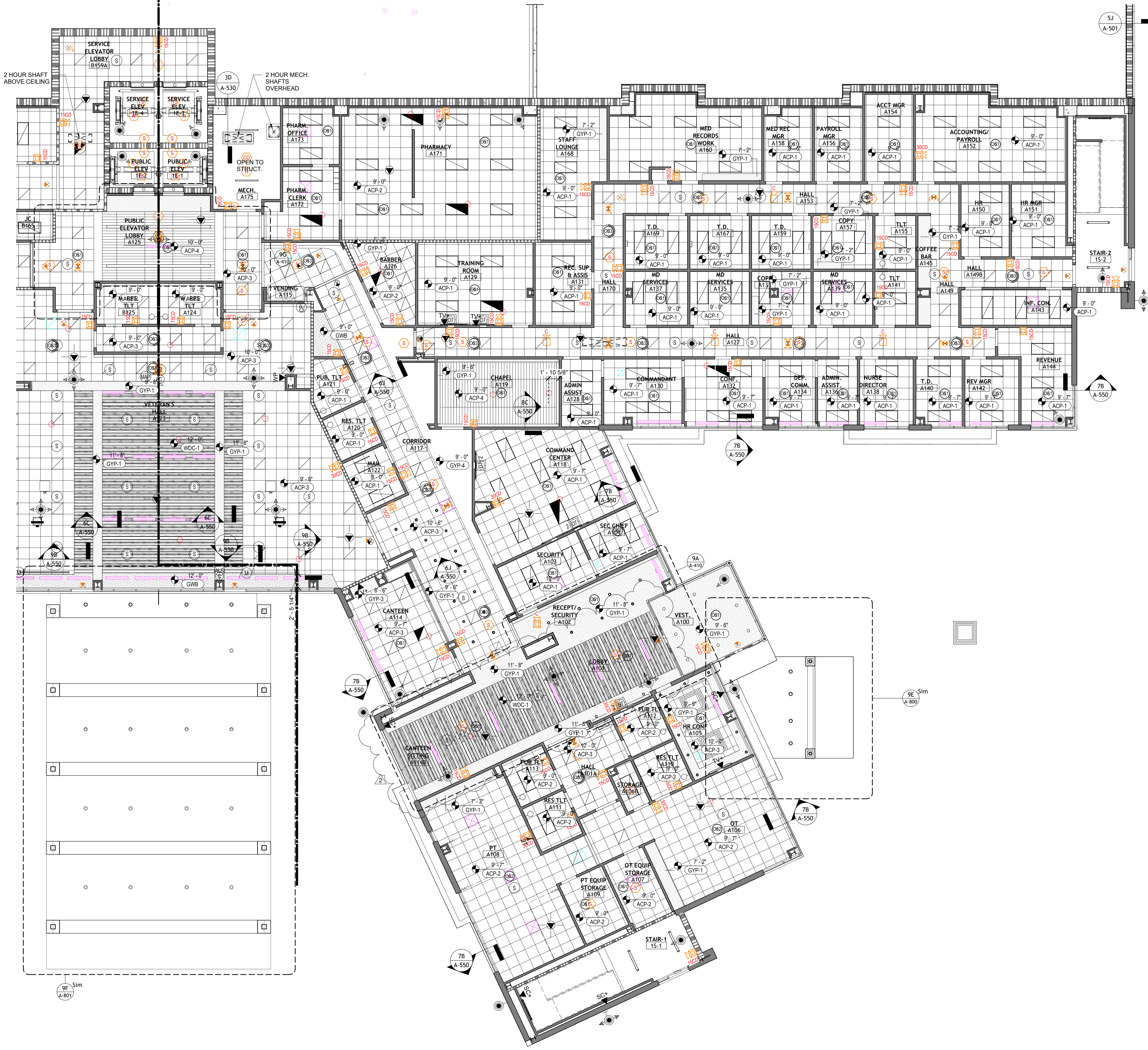
Drawn by: Author Date: 10-07-2022 Drawing No.: **A-103b**

Checked by: Checker Scale: 1/8" = 1'-0"

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**9B LEVEL 3 - AREA B**  
A-103 | A-103b | 1/8" = 1'-0"

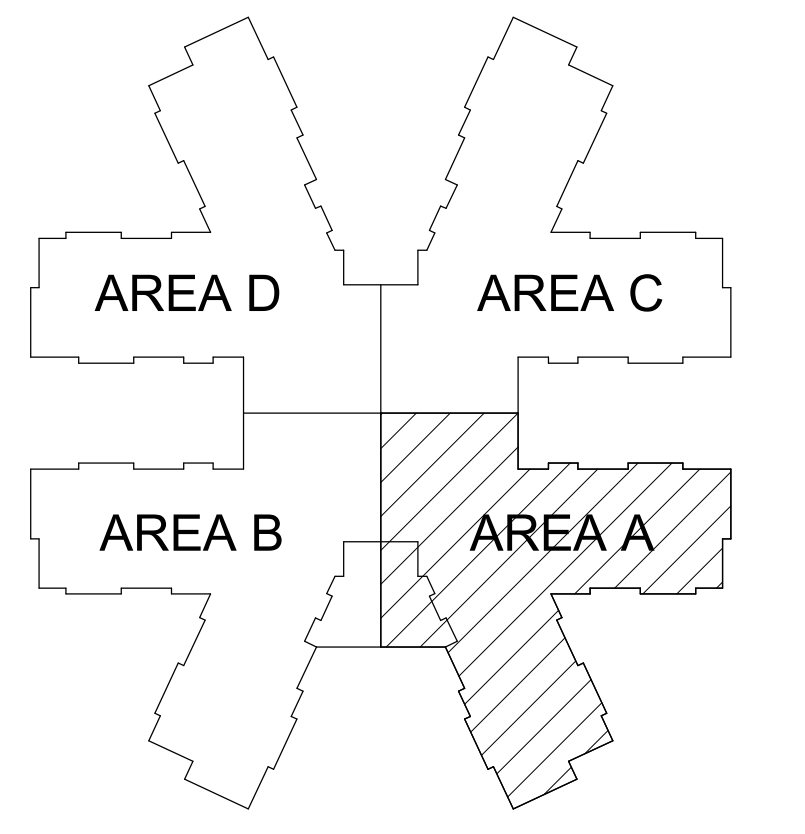


**9A RCP LEVEL 1 - AREA A**  
A-200 | A-111a | 1/8" = 1'-0"

REFLECTED CEILING PLAN LEGEND	
	2' x 4' RECESSED LIGHT
	2' x 4' RECESSED PARABOLIC-INDIRECT RECESSED LIGHT
	2' x 4' INDIRECT RECESSED LIGHT
	2' x 2' RECESSED LIGHT
	2' x 2' RECESSED PARABOLIC LIGHT
	2' x 2' INDIRECT RECESSED LIGHT
	WALL MOUNTED LIGHT FIXTURE
	RECESSED DOWN LIGHT
	RECESSED WALL WASHER
	DOMELIGHT
	ZONE DOMELIGHT
	EXIT SIGNS
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	RADIANT PANEL
	ACCESS PANEL
	CEILING PANEL TO BE FREE OF ALL DEVICES
	SHADING DEVICE
	WALL SCONCE
	RECESSED DOWN LIGHT
	RECESSED WALL WASHER
	DOMELIGHT
	ZONE DOMELIGHT
	EXIT SIGNS
	RETURN DIFFUSER
	EXHAUST DIFFUSER
	SUPPLY DIFFUSER
	LINEAR DIFFUSER
	RADIANT PANEL
	ACCESS PANEL
	CEILING PANEL TO BE FREE OF ALL DEVICES
	SHADING DEVICE
	WALL SCONCE
	RECESSED DOWN LIGHT
	RECESSED WALL WASHER
	DOMELIGHT
	ZONE DOMELIGHT
	EXIT SIGNS

**NOTE:**  
CEILING HEIGHTS ARE 9' - 0" UNLESS INDICATED OTHERWISE.

<b>ARCHITECT</b> Hord Coplan Macht, Inc. 700 E. Pratt St., Suite 1200 Baltimore, MD 21202 p. 410.837.7311	Baltimore, MD 21202 f. 410.837.6530
<b>LANDSCAPE ARCHITECTURE</b> Hord Coplan Macht, Inc. 700 E. Pratt St., Suite 1200 Baltimore, MD 21202 p. 410.837.7311	Baltimore, MD 21202 f. 410.837.6530
<b>INTERIOR DESIGN</b> Hord Coplan Macht, Inc. 700 E. Pratt St., Suite 1200 Baltimore, MD 21202 p. 410.837.7311	Baltimore, MD 21202 f. 410.837.6530
<b>STRUCTURAL ENGINEER</b> Hope Furrer Associates 700 East Beaver Ave., Suite 3 State College, PA 16801 p. 814.234.8191 x 1106	State College, PA 16801 f. 000.000.0000
<b>MECHANICAL &amp; ELECTRICAL ENGINEER</b> BALA Consulting Engineers 443 South Gulph Rd. King of Prussia, PA 19406 p. 610.674.0905	King of Prussia, PA 19406 f. 000.000.0000
<b>PLUMBING ENGINEER</b> VETERAN DESIGN & CONSTRUCTION, Inc. 5523 Research Park Drive, Suite 110 Baltimore, MD 21228 p. 443.543.5081	Baltimore, MD 21228 f. 000.000.0000
<b>CIVIL ENGINEERS</b> Keller Engineers, Inc. 420 Allegheny St. Hollidaysburg, PA 16648 p. 814.696.7430	Hollidaysburg, PA 16648 f. 000.000.0000



no.	date	revision
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
700 E. Pratt St., Suite 1200  
Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

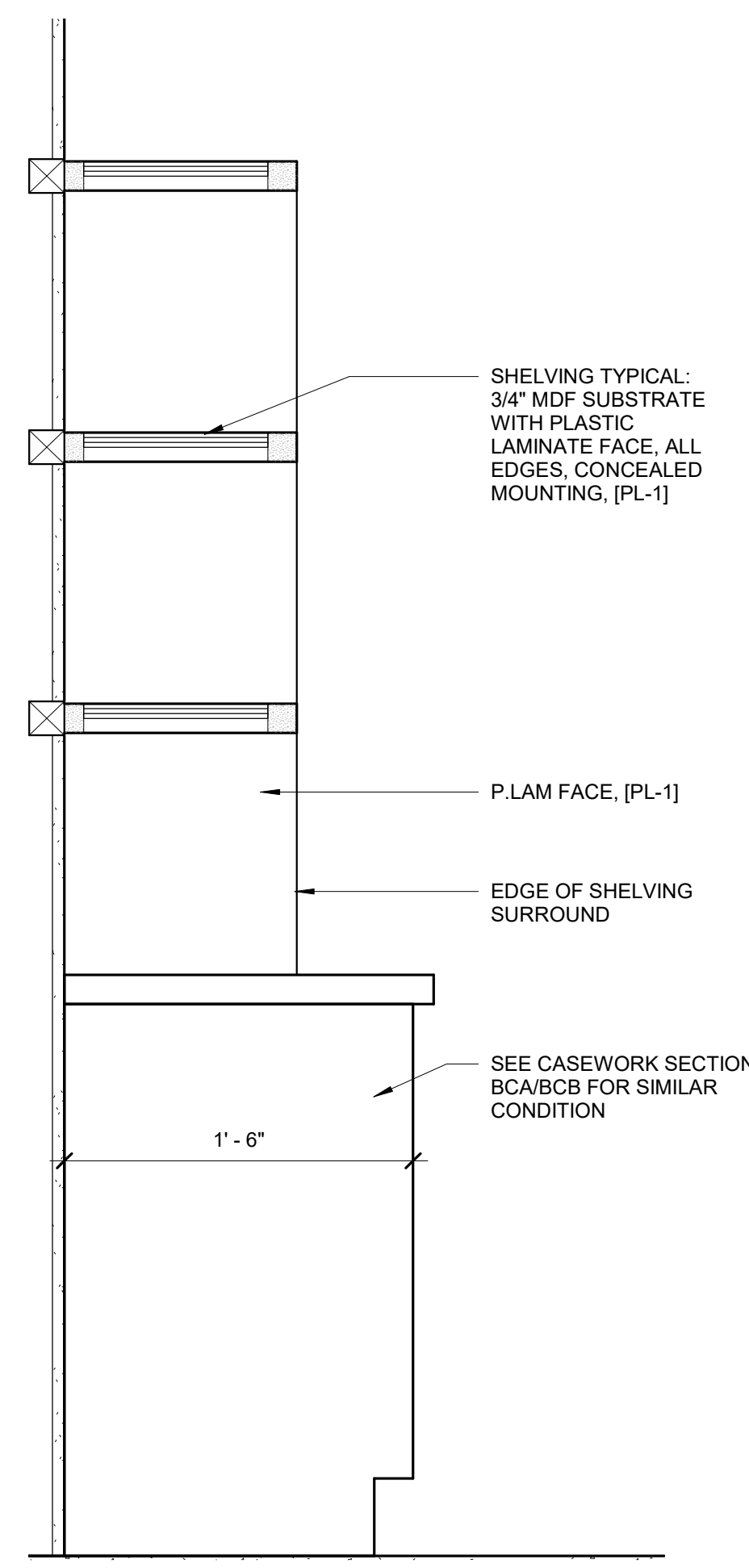
Project Number **D.G.S. C-0969-0017-001**

**VERIFY SCALE**  
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0 1  
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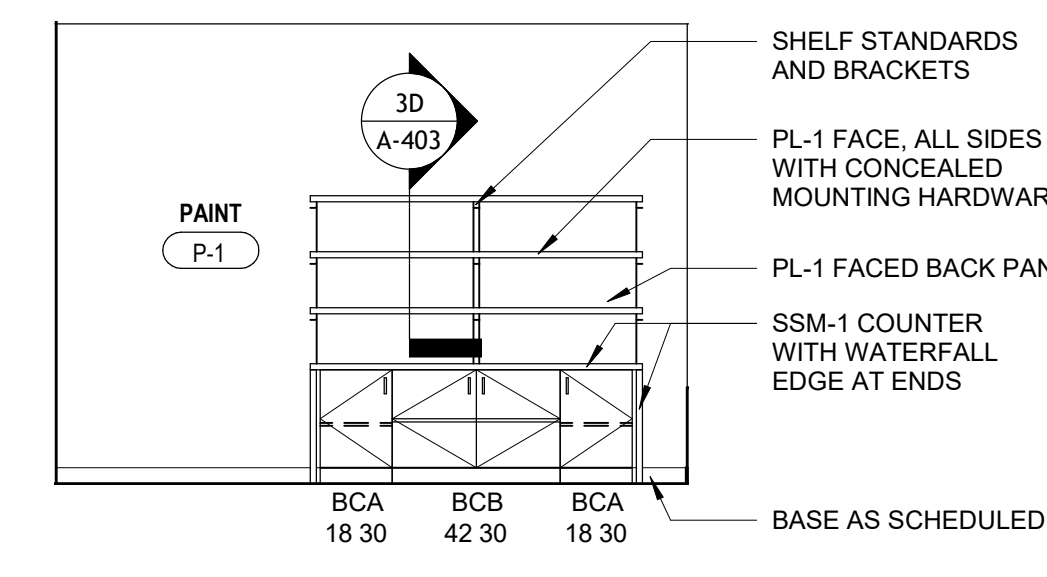
**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANVILLE, BLAIR COUNTY, PA  
**PARTIAL RCP LEVEL 1 AREA A**

Drawn by	Date	Drawing No.
Author	10-07-2022	<b>A-111a</b>
Checked by	Scale	
Checker	1/8" = 1'-0"	

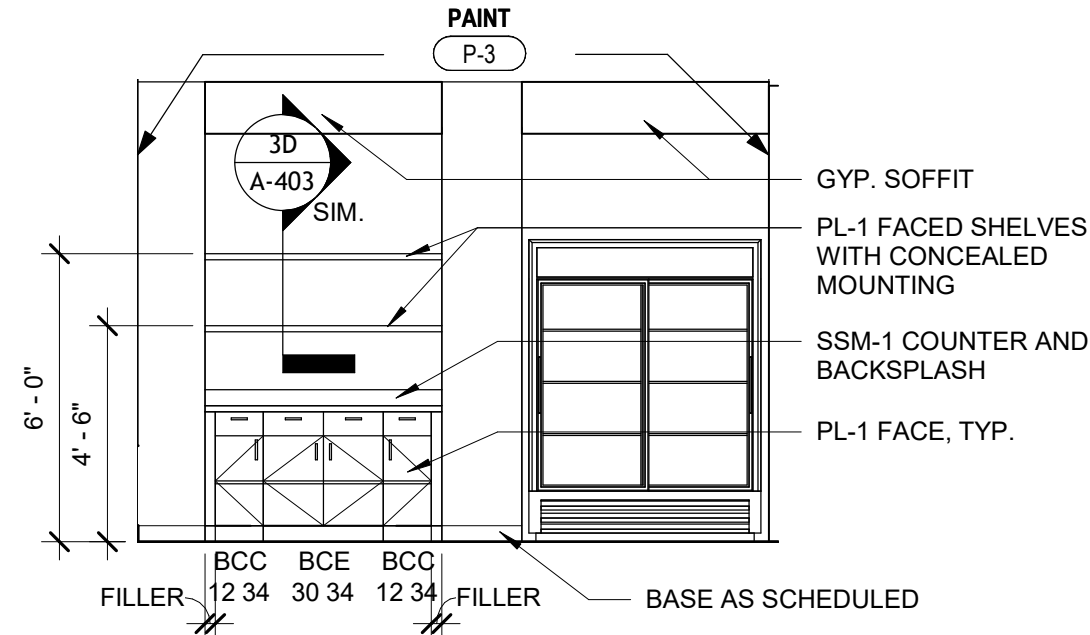




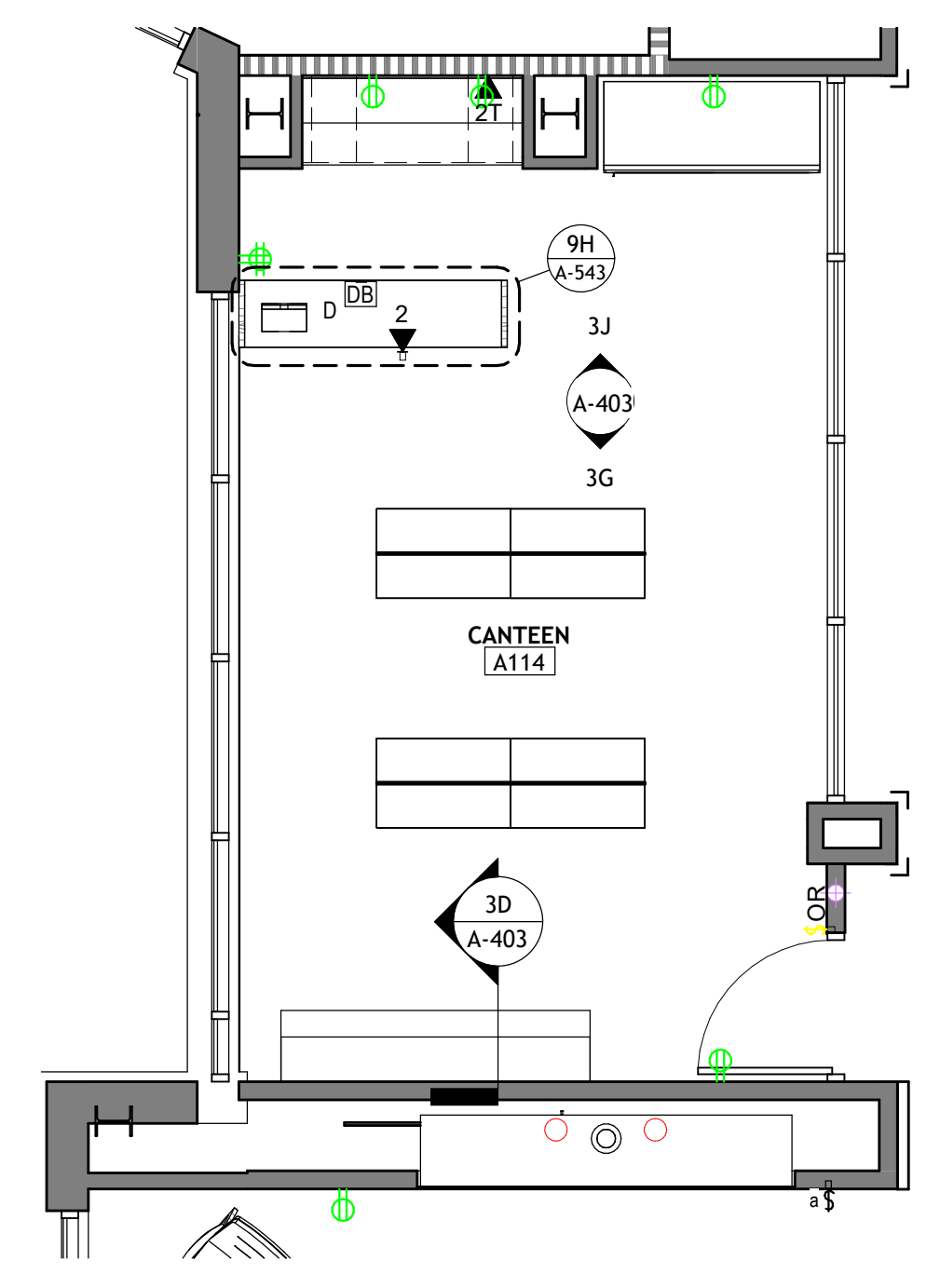
**3D CANTEN SHELVING**  
A-403 A-403 1/12" = 1'-0"



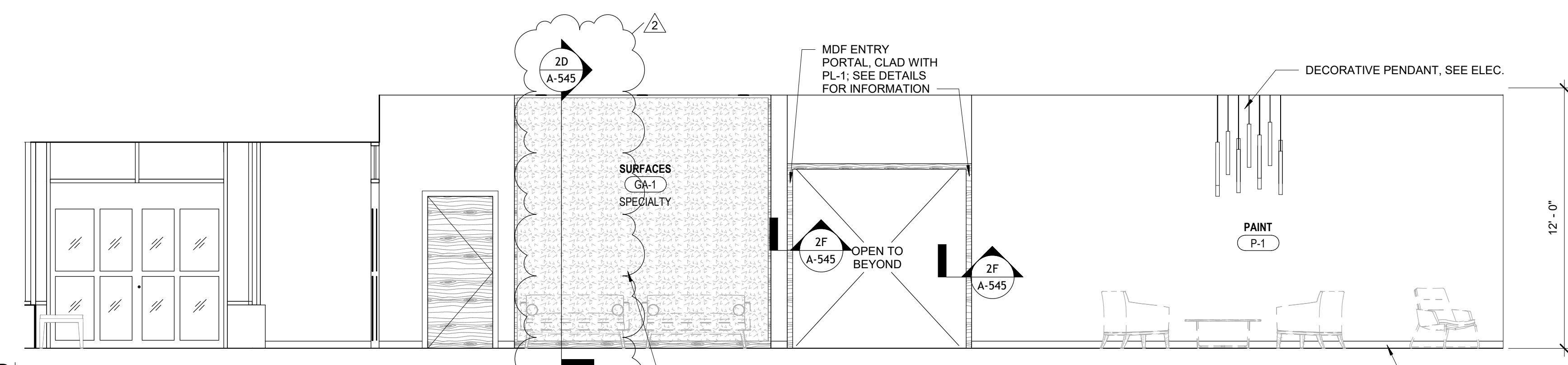
**3G CANTEN - ELEVATION C**  
A-403 A-403 1/4" = 1'-0"



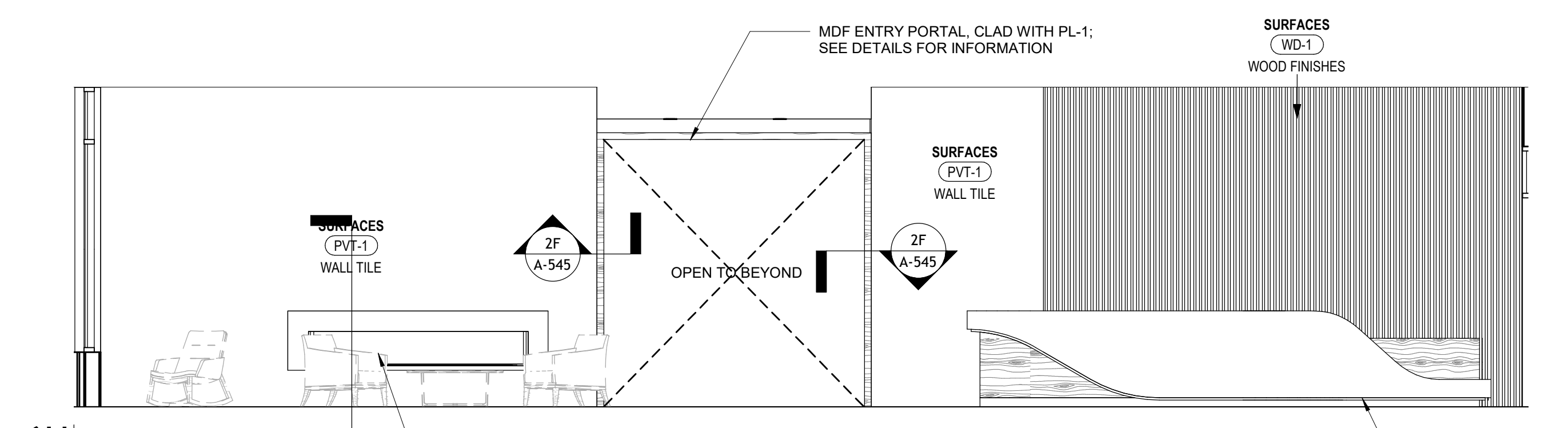
**3J CANTEN - ELEVATION A**  
A-403 A-403 1/4" = 1'-0"



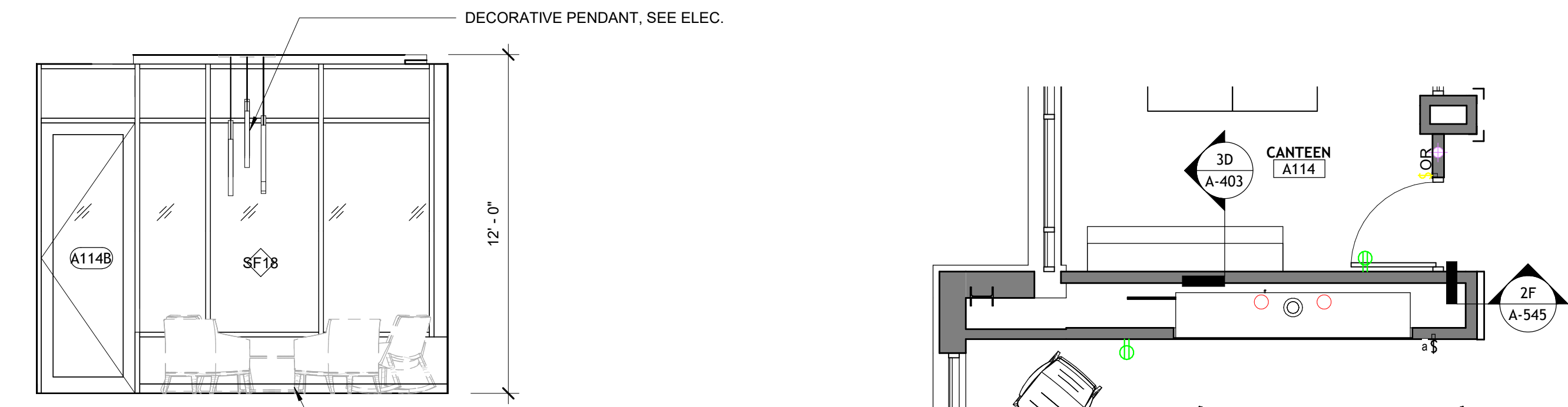
**3L ENLARGED PLAN - CANTEN**  
A-101a A-403 1/4" = 1'-0"



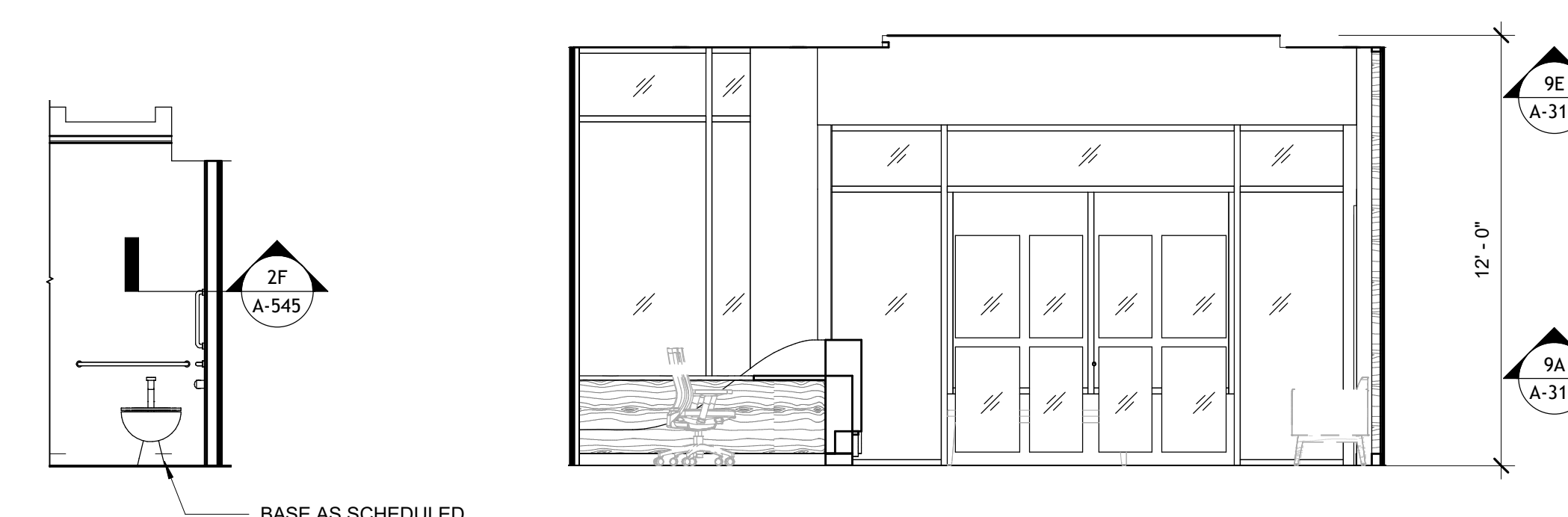
**6B LOBBY - ELEVATION C**  
A-403 A-403 1/4" = 1'-0"



**6H LOBBY - ELEVATION A**  
A-403 A-403 1/4" = 1'-0"

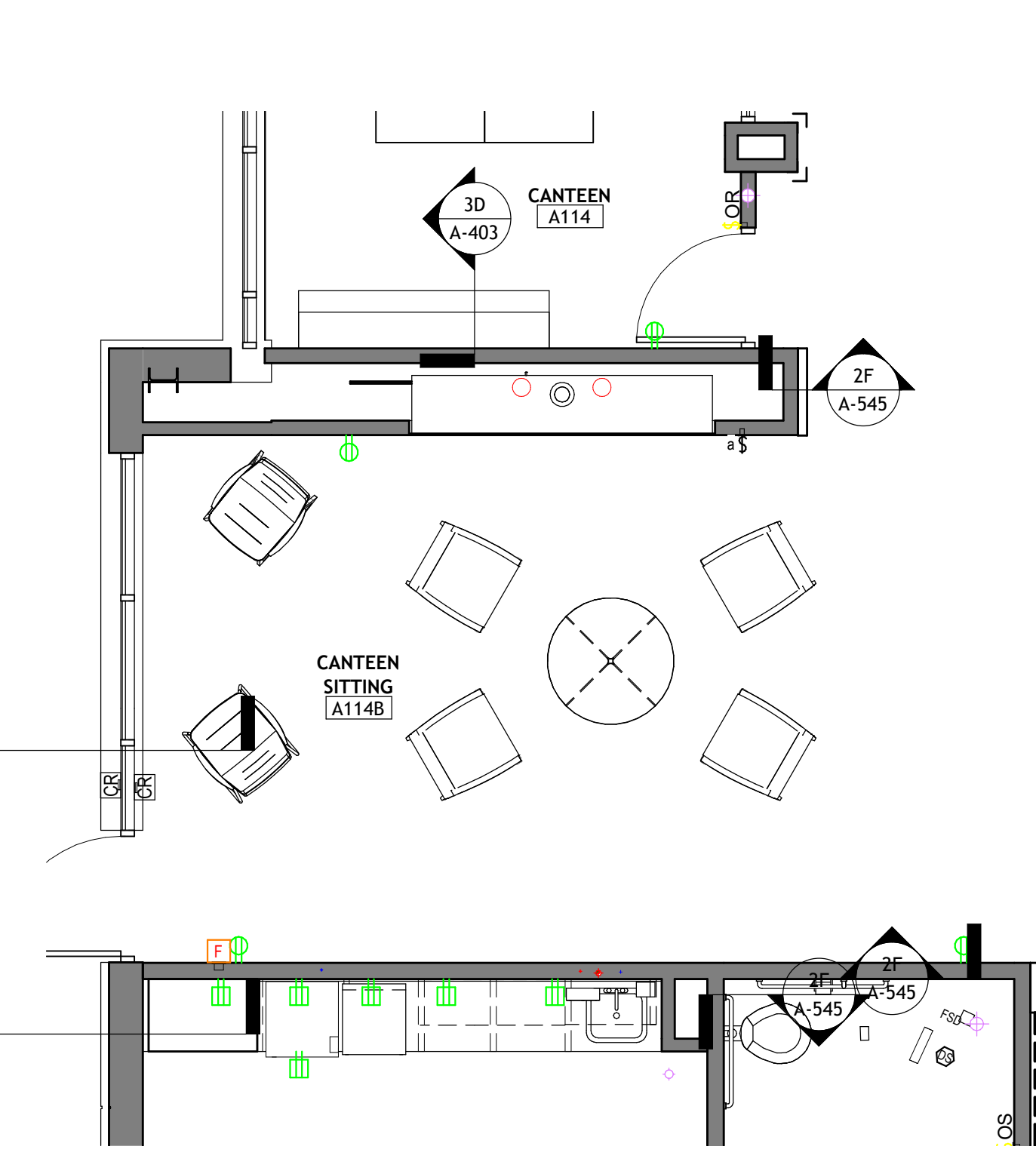


**8C LOBBY - ELEVATION D**  
A-403 A-403 1/4" = 1'-0"

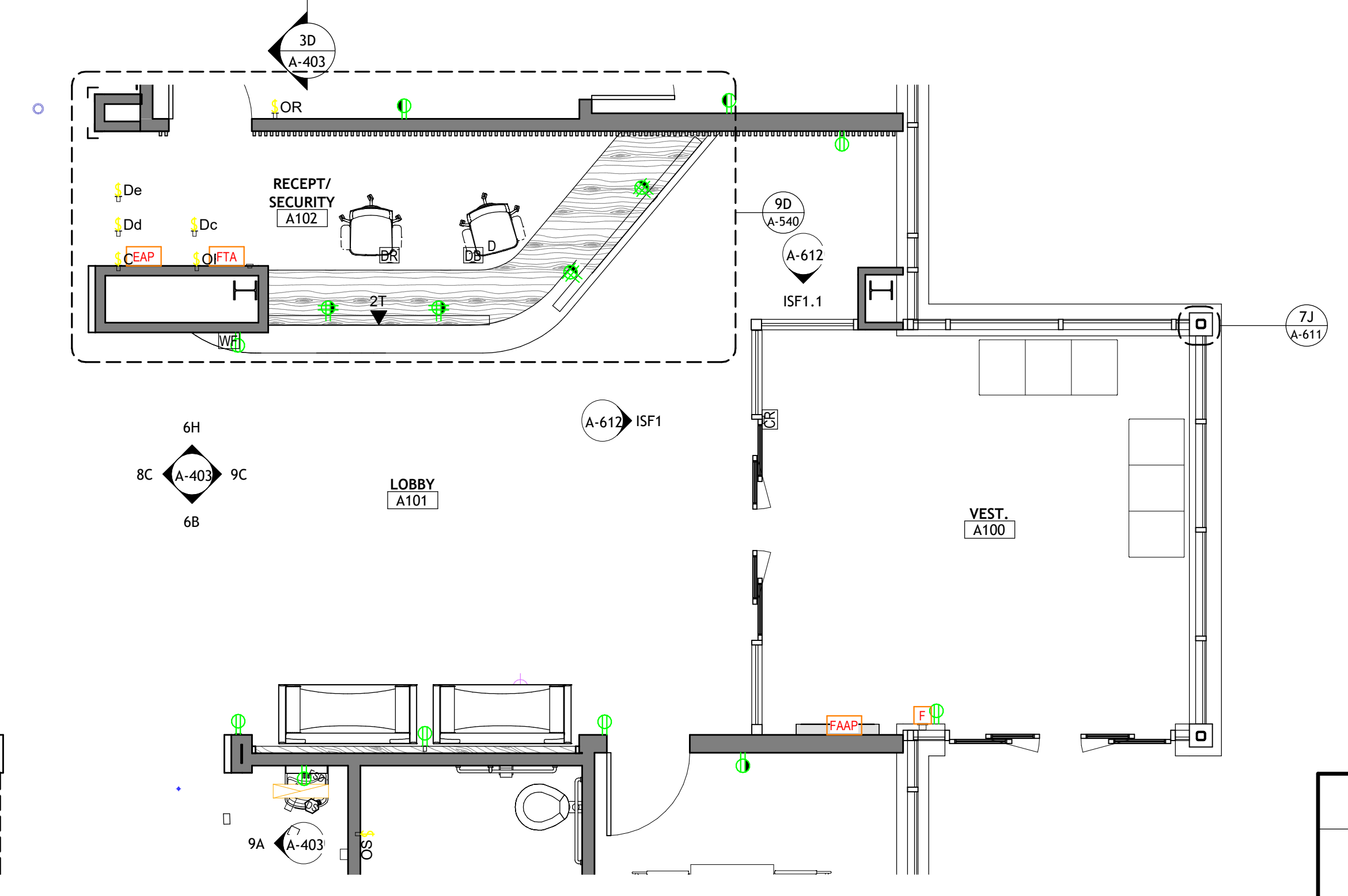


**9A LOBBY - DRINKING FOUNTAIN**  
A-403 A-403 1/4" = 1'-0"

**9C LOBBY - ELEVATION B**  
A-403 A-403 1/4" = 1'-0"



**9F ENLARGED PLAN - LOBBY**  
A-101a A-403 1/4" = 1'-0"



**ARCHITECT**  
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**LANDSCAPE ARCHITECTURE**  
Hord Coplan Macht, Inc.  
700 E. Pratt St, Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

**INTERIOR DESIGN**  
Hord Coplan Macht, Inc.  
700 E. Pratt St, Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

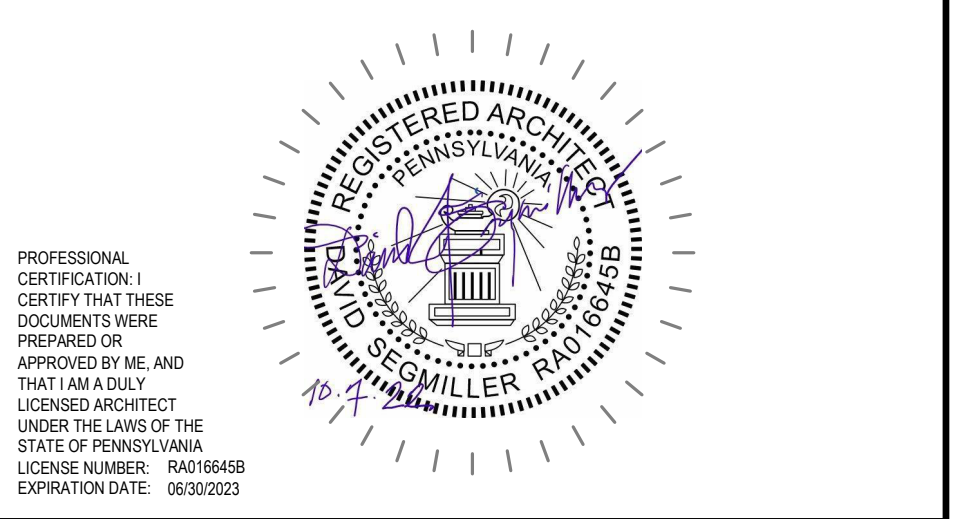
**STRUCTURAL ENGINEER**  
Hope Furrer Associates  
700 East Beaver Ave, Suite 3  
State College, PA 16801  
p. 814.234.8191 x 1106 f. 000.000.0000

**MECHANICAL & ELECTRICAL ENGINEER**  
BALA Consulting Engineers  
443 South Gulph Rd  
King of Prussia, PA 19406  
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**PLUMBING ENGINEER**  
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**CIVIL ENGINEERS**  
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no.	date	revision
1	12.09.2022	ADDENDUM 5
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
700 E. Pratt St, Suite 1200  
Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

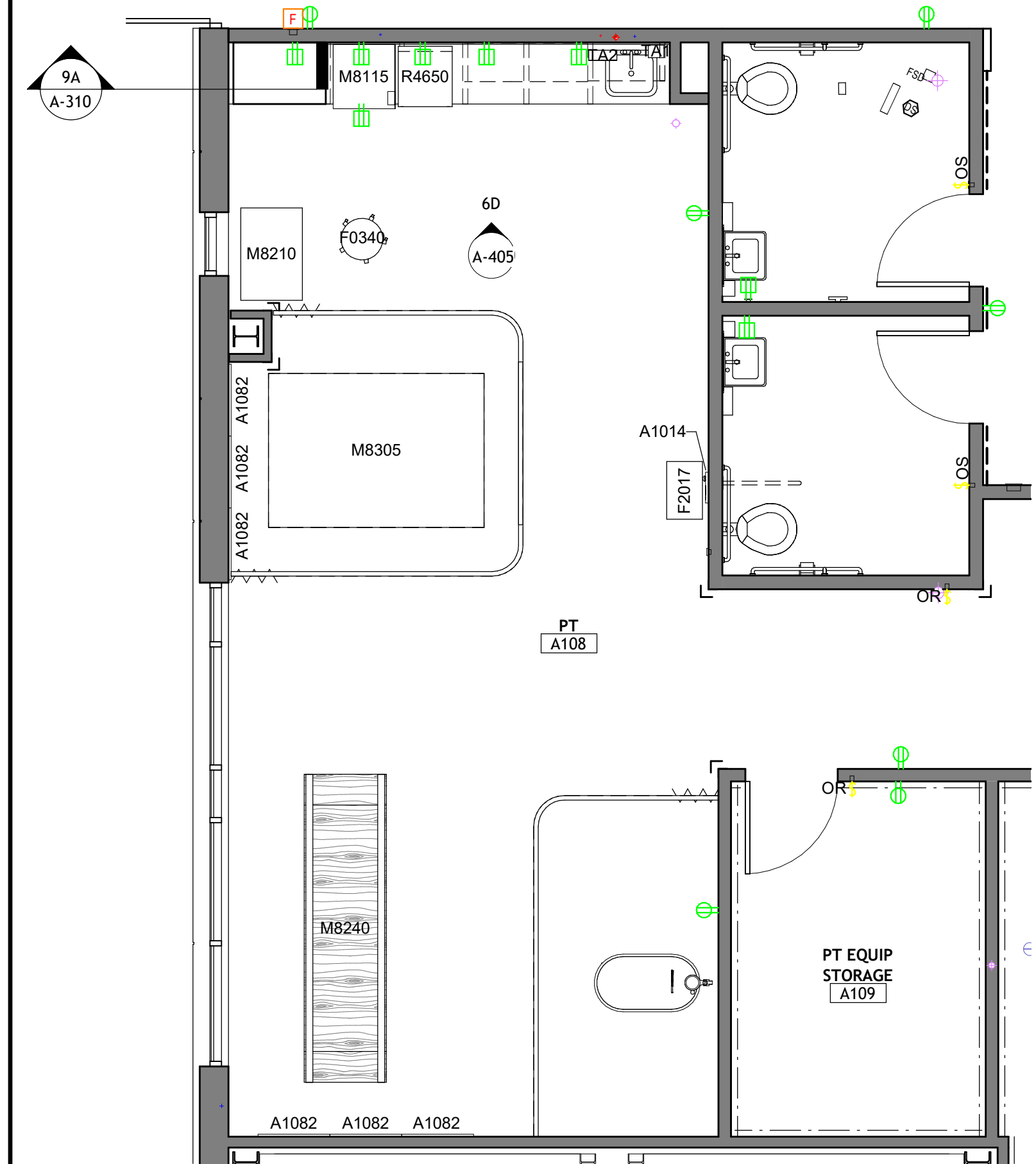
**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANVILLE, BLAIR COUNTY, PA

**INTERIOR ENLARGED PLANS AND ELEVATIONS**

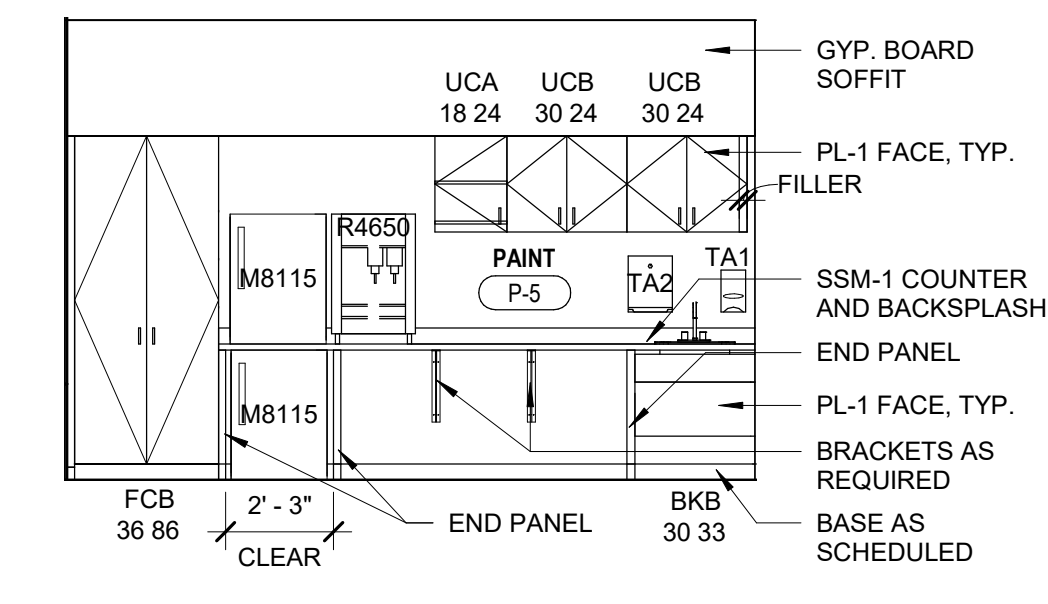
Drawn by \_\_\_\_\_ Date **10-07-2022**  
Author \_\_\_\_\_  
Checked by \_\_\_\_\_ Scale **As indicated**  
Checker \_\_\_\_\_

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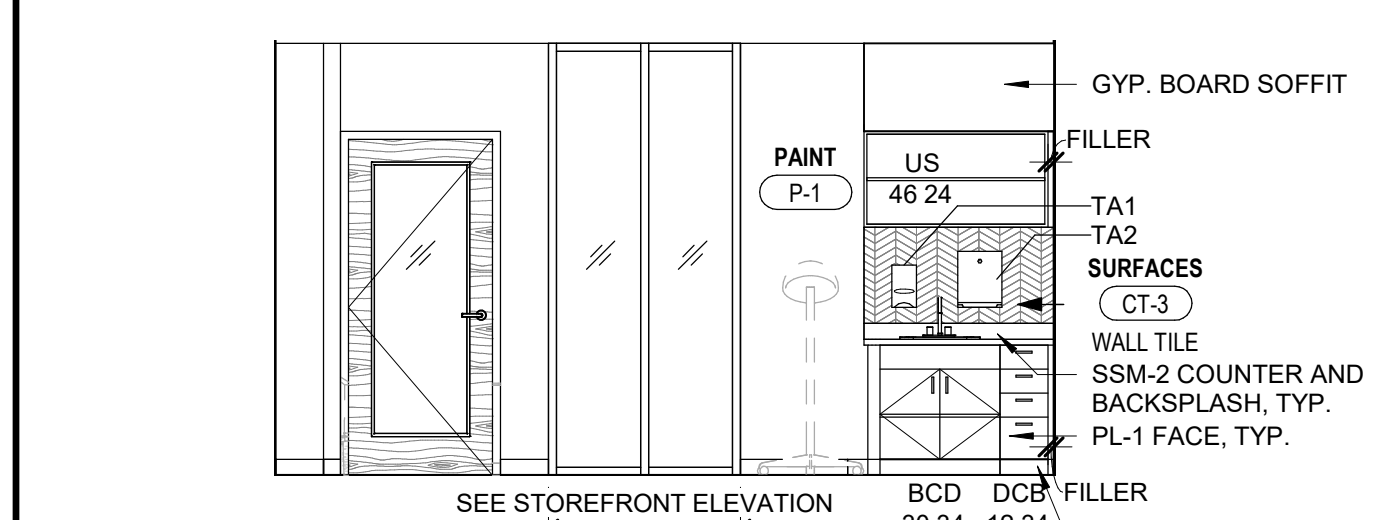
**A-403**



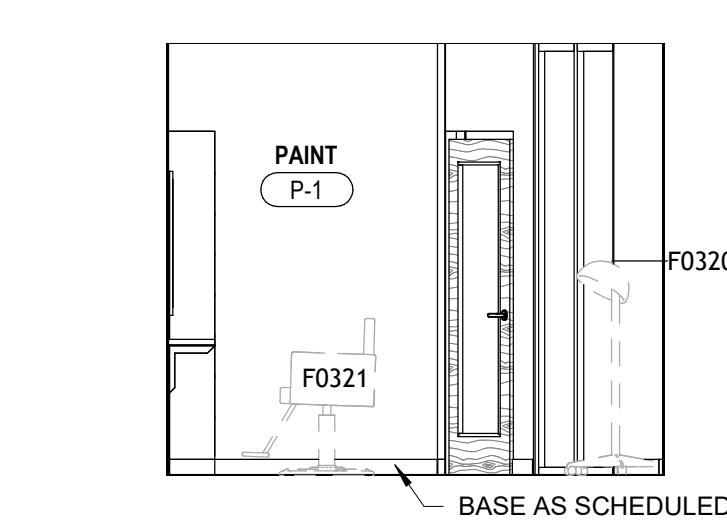
**6A ENLARGED PLAN - PT**  
A-1014 | A-405 | 1/4" = 1'-0"



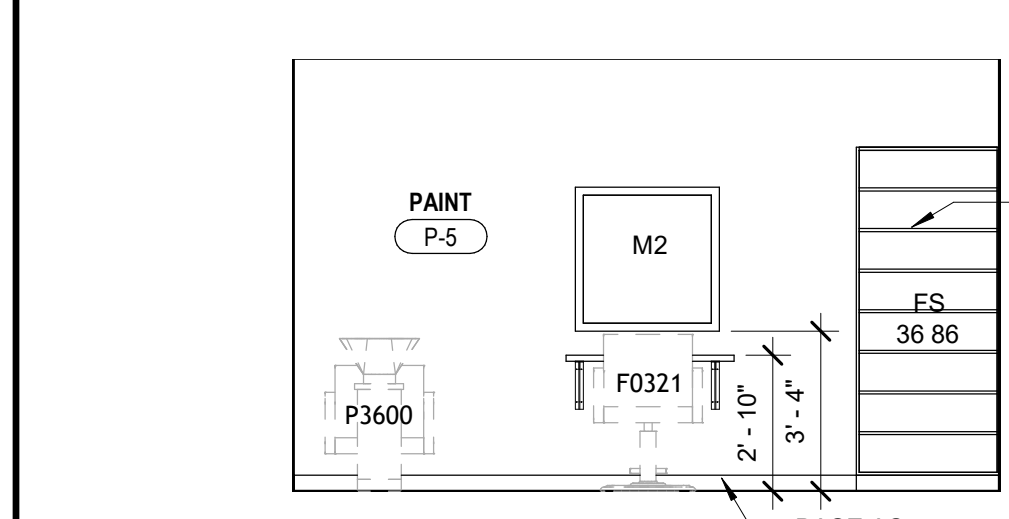
**6D PHYSICAL THERAPY - ELEVATION**  
A-405 | A-405 | 1/4" = 1'-0"



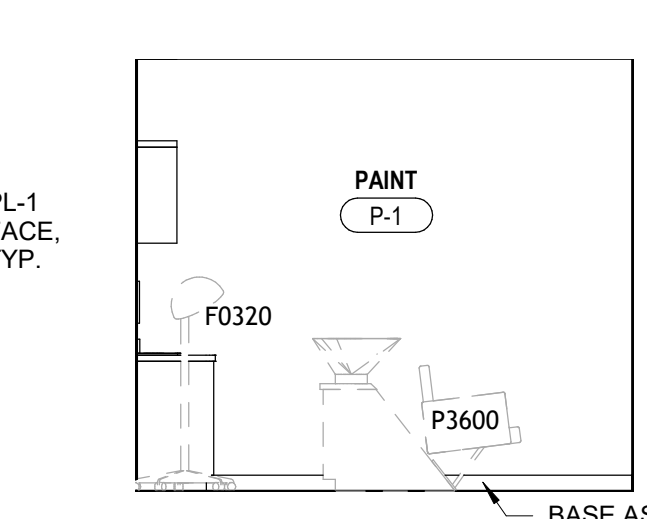
**8A BEAUTY - ELEVATION D**  
A-405 | A-405 | 1/4" = 1'-0"



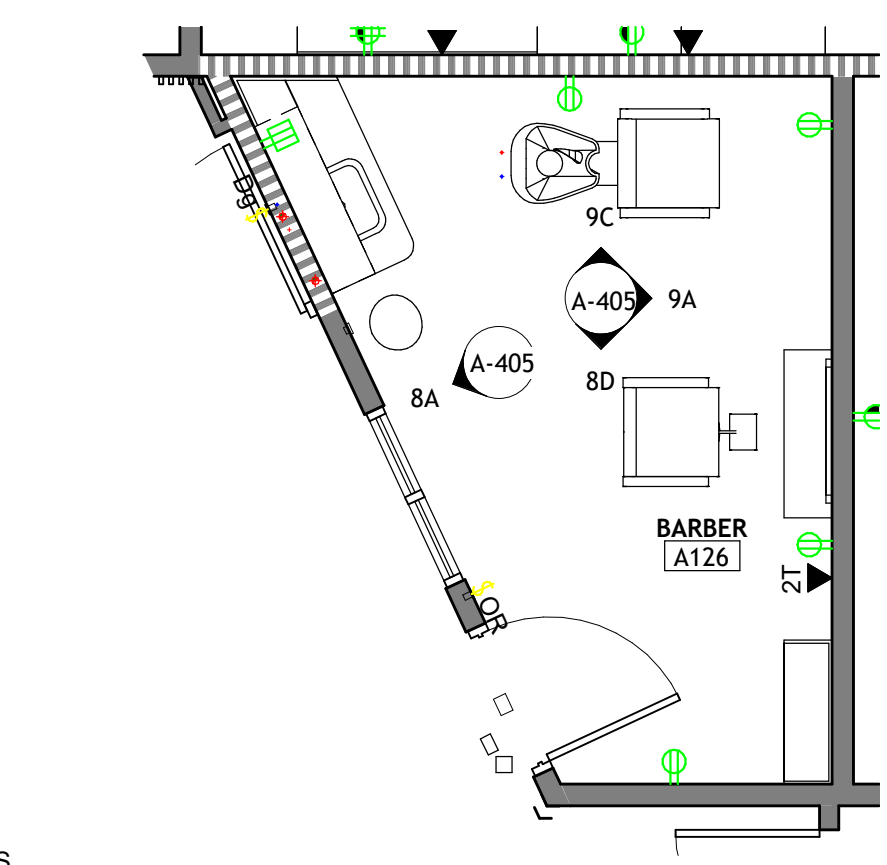
**8D BEAUTY - ELEVATION C**  
A-405 | A-405 | 1/4" = 1'-0"



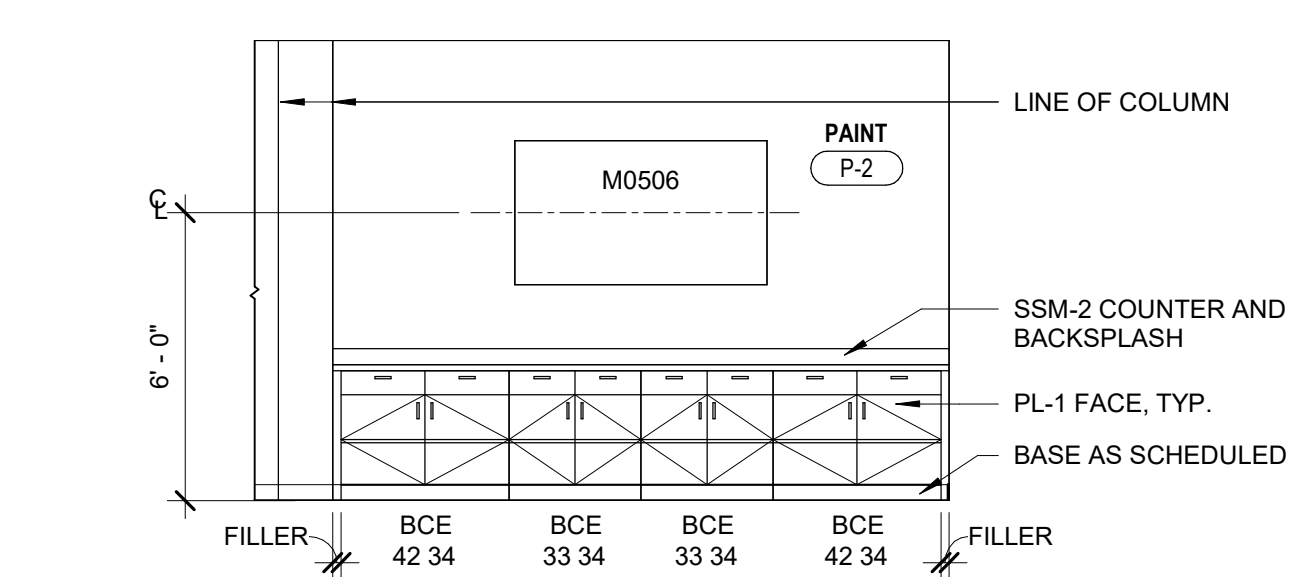
**9A BEAUTY - ELEVATION B**  
A-405 | A-405 | 1/4" = 1'-0"



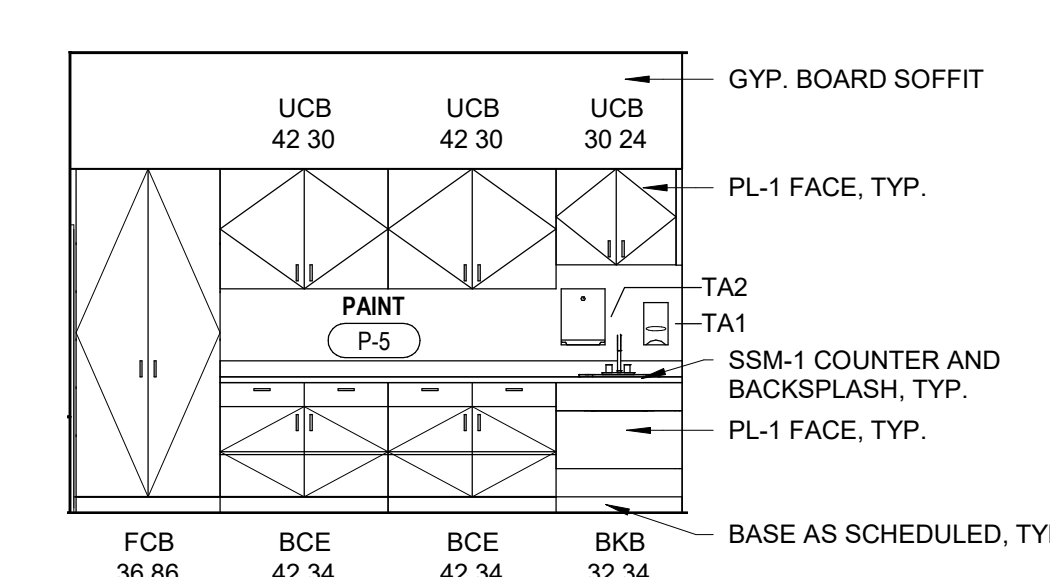
**9C BEAUTY - ELEVATION A**  
A-405 | A-405 | 1/4" = 1'-0"



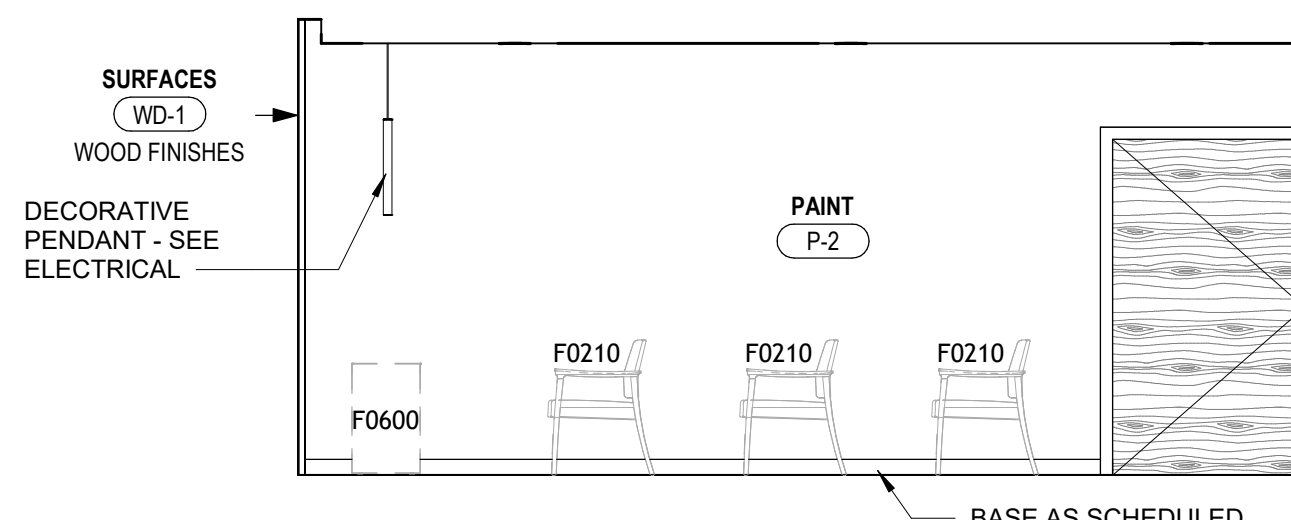
**9D ENLARGED PLAN - BARBER**  
A-1014 | A-405 | 1/4" = 1'-0"



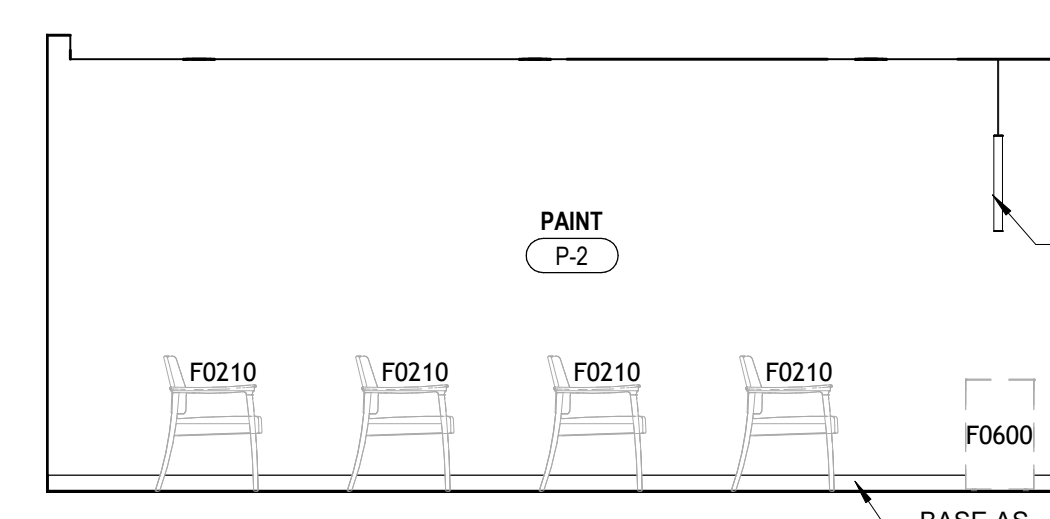
**3F COMMAND CENTER - ELEVATION**  
A-405 | A-405 | 1/4" = 1'-0"



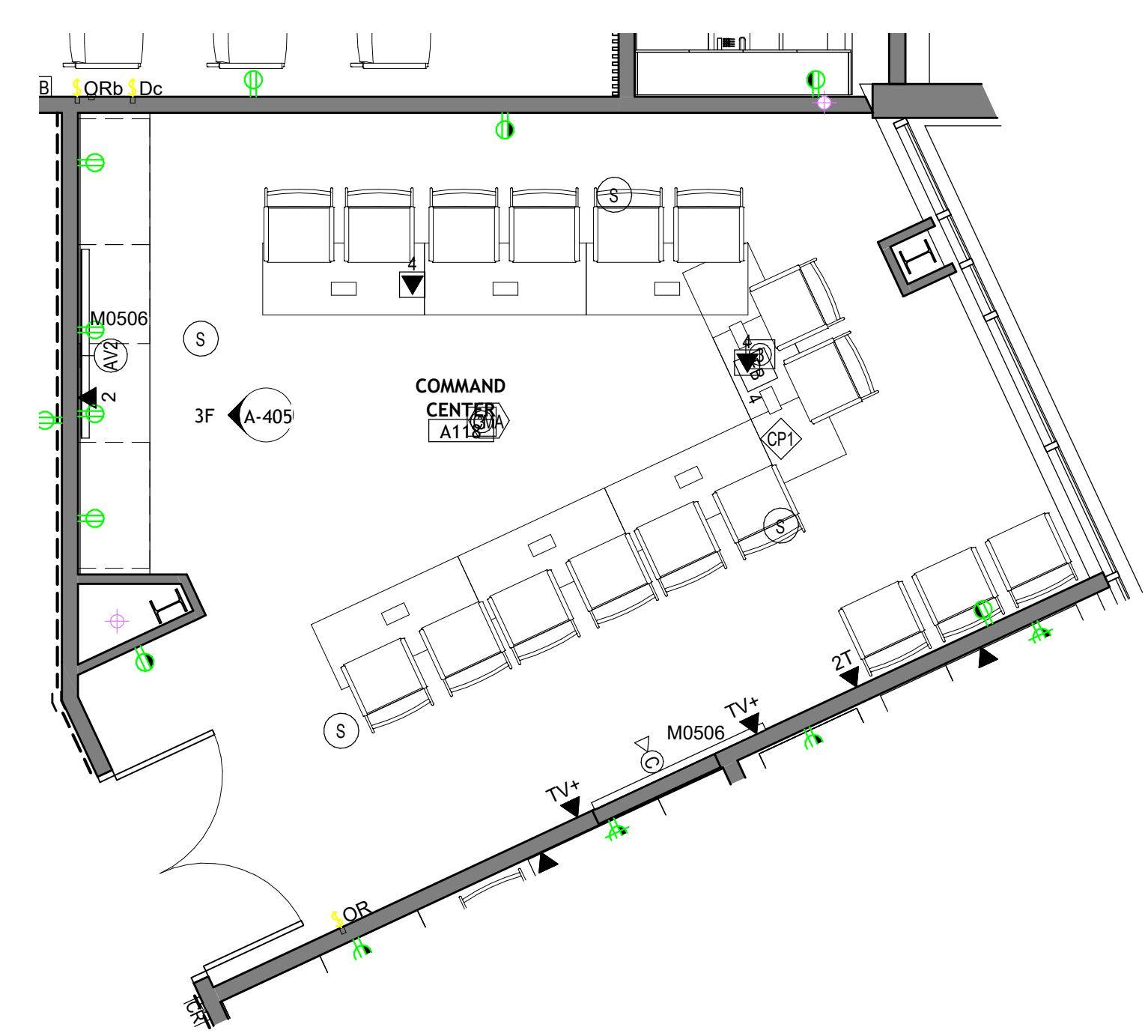
**6F OT - ELEVATION**  
A-405 | A-405 | 1/4" = 1'-0"



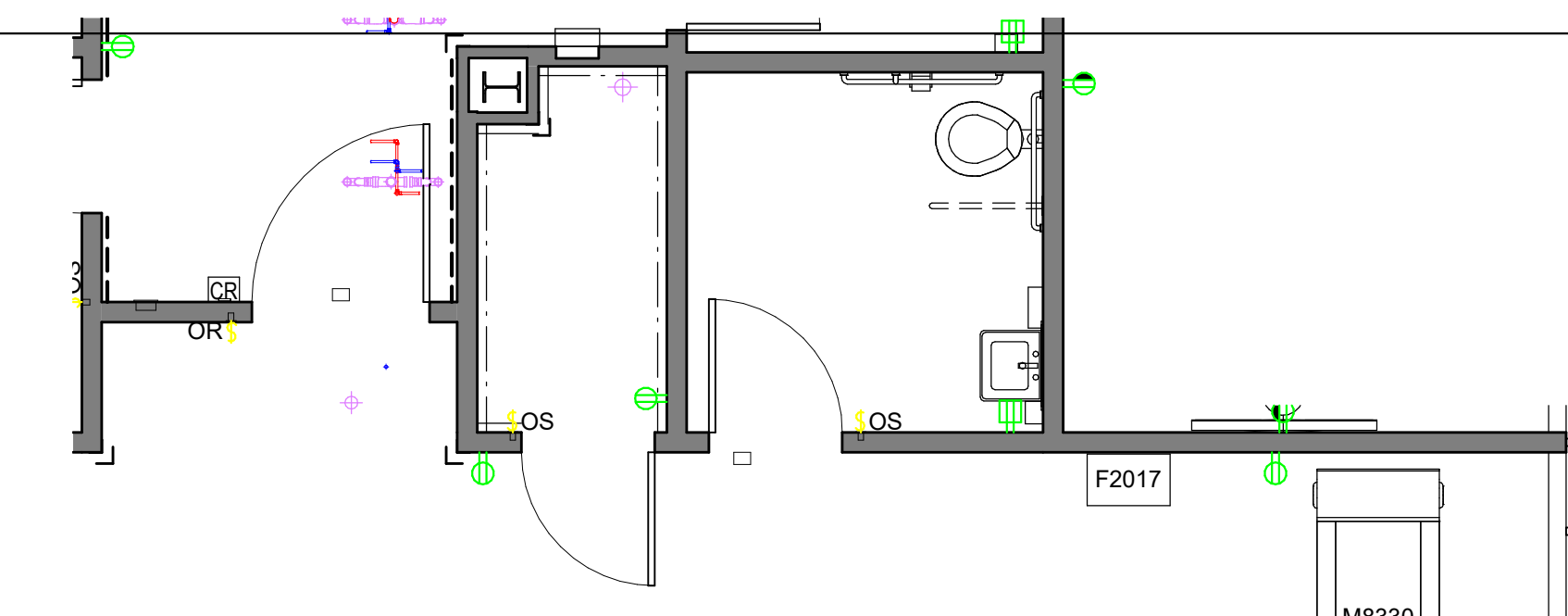
**8F CHAPEL - ELEVATION D**  
A-405 | A-405 | 1/4" = 1'-0"



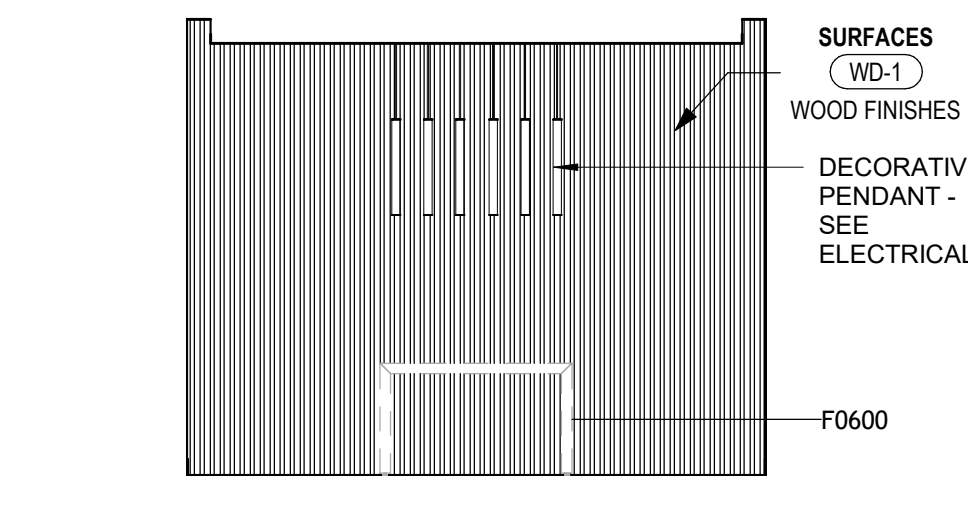
**9F CHAPEL - ELEVATION B**  
A-405 | A-405 | 1/4" = 1'-0"



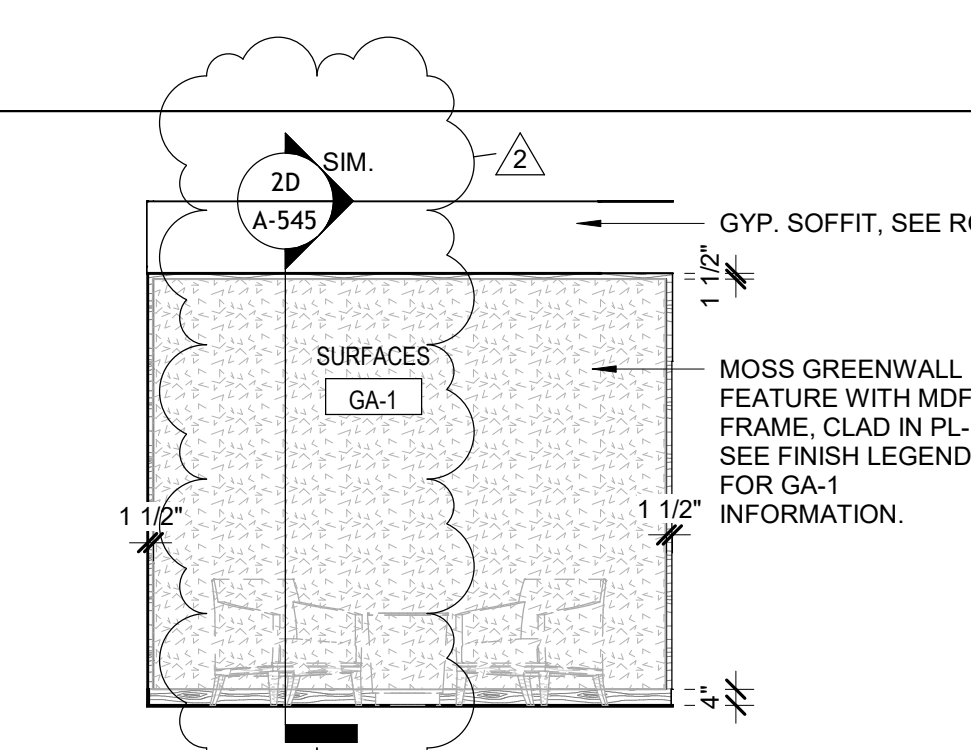
**3J ENLARGED PLAN - COMMAND CENTER**  
A-1014 | A-405 | 1/4" = 1'-0"



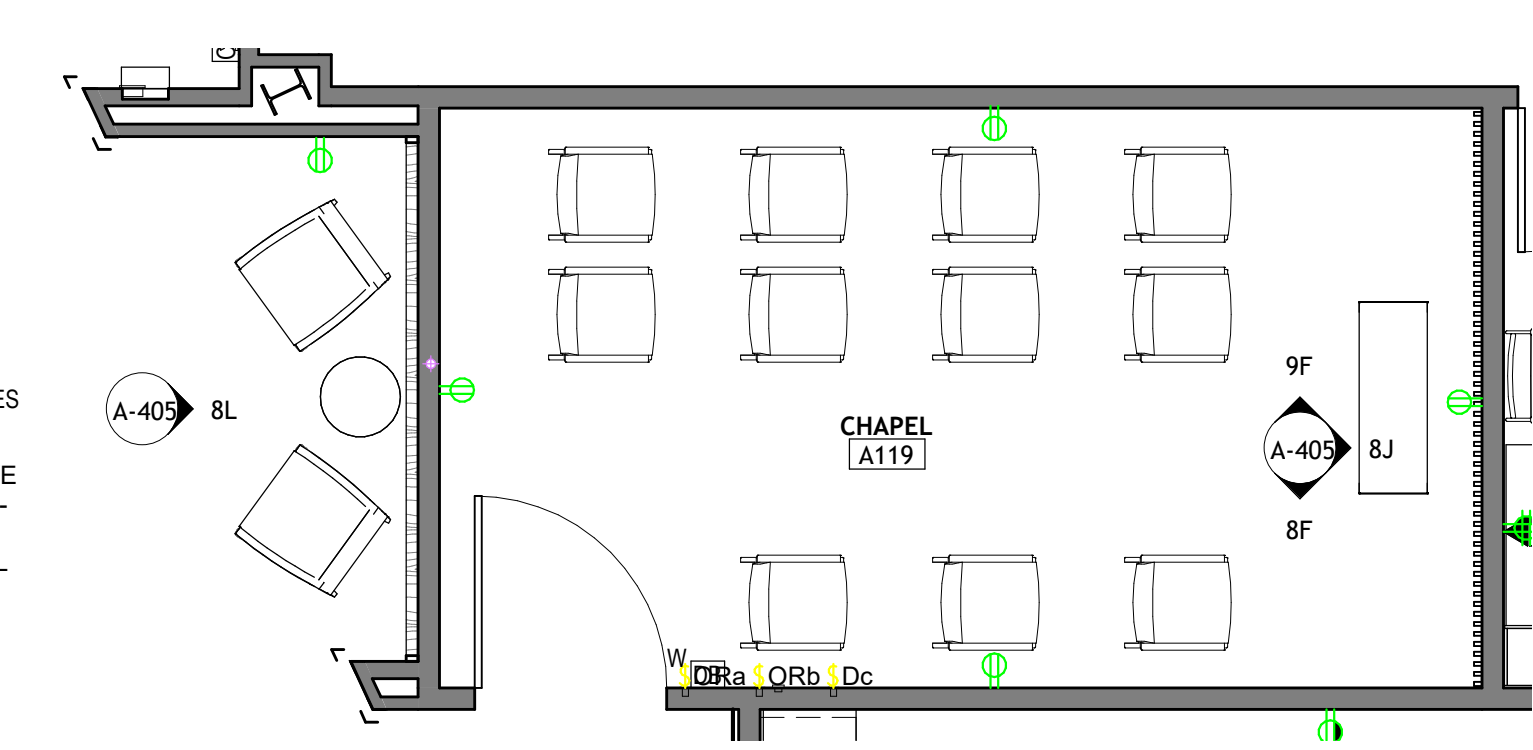
**6J ENLARGED PLAN - OT**  
A-1014 | A-405 | 1/4" = 1'-0"



**8J CHAPEL - ELEVATION A**  
A-405 | A-405 | 1/4" = 1'-0"



**8L CHAPEL - WAITING**  
A-405 | A-405 | 1/4" = 1'-0"



**9J ENLARGED PLAN - CHAPEL**  
A-1014 | A-405 | 1/4" = 1'-0"

<b>ARCHITECT</b>	Hord Coplan Macht, Inc. 700 E. Pratt St. Suite 1200 Baltimore, MD 21202 p. 410.837.7311 f. 410.837.6530
<b>LANDSCAPE ARCHITECTURE</b>	Hord Coplan Macht, Inc. 700 E. Pratt St. Suite 1200 Baltimore, MD 21202 p. 410.837.7311 f. 410.837.6530
<b>INTERIOR DESIGN</b>	Hord Coplan Macht, Inc. 700 E. Pratt St. Suite 1200 Baltimore, MD 21202 p. 410.837.7311 f. 410.837.6530
<b>STRUCTURAL ENGINEER</b>	Hope Furrer Associates 700 East Beaver Ave, Suite 3 State College, PA 16801 p. 814.234.8191 x 1106 f. 000.000.0000
<b>MECHANICAL &amp; ELECTRICAL ENGINEER</b>	BALA Consulting Engineers 443 South Gulph Rd King of Prussia, PA 19406 p. 610.674.0905 f. 000.000.0000
<b>PLUMBING ENGINEER</b>	VETERAN DESIGN & CONSTRUCTION, Inc. 5523 Research Park Drive, Suite 110 Baltimore, MD 21228 p. 443.543.5081 f. 000.000.0000
<b>CIVIL ENGINEERS</b>	Keller Engineers, Inc. 420 Allegheny St. Hollidaysburg, PA 16648 p. 814.696.7430 f. 000.000.0000

no.	date	revision
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
700 E. Pratt St. Suite 1200  
Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANSVILLE, BLAIR COUNTY, PA

**INTERIOR ENLARGED PLANS AND ELEVATIONS**

Drawn by \_\_\_\_\_ Date 10-07-2022 Drawing No. **A-405**  
Author \_\_\_\_\_  
Checked by \_\_\_\_\_ Scale 1/4" = 1'-0"  
Checker \_\_\_\_\_

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TOILET ACCESSORIES SCHEDULE		
MARK	DESCRIPTION	MOUNTING REQUIREMENTS
G1	SWING UP GRAB BAR WITH TOILET PAPER HOLDER	34" A.F.F. TO CENTERLINE U.N.O.
G2	SWING UP GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G5	30" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G6	36" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G7	42" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G9	18" VERTICAL GRAB BAR	40" A.F.F. TO BOTTOM U.N.O.
M1	24" x 36" MIRROR WITH FRAME	42" A.F.F. TO BOTTOM OF FRAME
M2	36" x 36" LIGHTED MIRROR	42" A.F.F. TO BOTTOM OF FRAME
RH	ROBE HOOK	4'-6" A.F.F. TO BOTTOM U.N.O.
SZ	SHOWER CURTAIN ROD	6'-2" A.F.F. T.O. ROD, U.N.O.
TA1	SOAP DISPENSER	
TA2	PAPER TOWEL DISPENSER	
TA3	TOILET PAPER HOLDER	
TB1	18" TOWEL BAR	48" A.F.F. TO CENTERLINE, U.N.O.
TD1	TRENCH DRAIN - 36" x 4"	
G3	12" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G4	27" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
SS	32 X 16 FOLD DOWN SEAT WITH SWING DOWN LEGS	

**ARCHITECT**  
Hord Coplan Macht, Inc.  
700 E. Pratt St., Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

**LANDSCAPE ARCHITECTURE**  
Hord Coplan Macht, Inc.  
700 E. Pratt St., Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

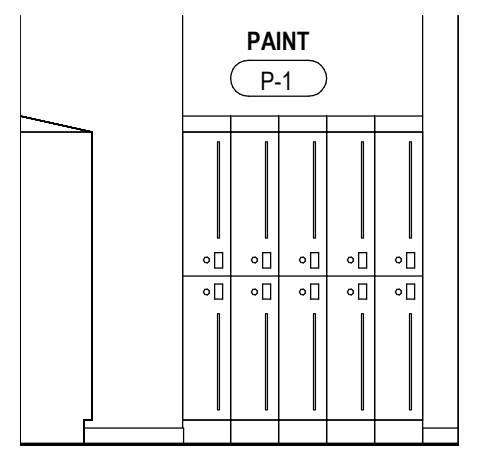
**INTERIOR DESIGN**  
Hord Coplan Macht, Inc.  
700 E. Pratt St., Suite 1200  
Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

**STRUCTURAL ENGINEER**  
Hope Furrer Associates  
700 East Beaver Ave., Suite 3  
State College, PA 16801  
p. 814.234.8191 x 1106 f. 000.000.0000

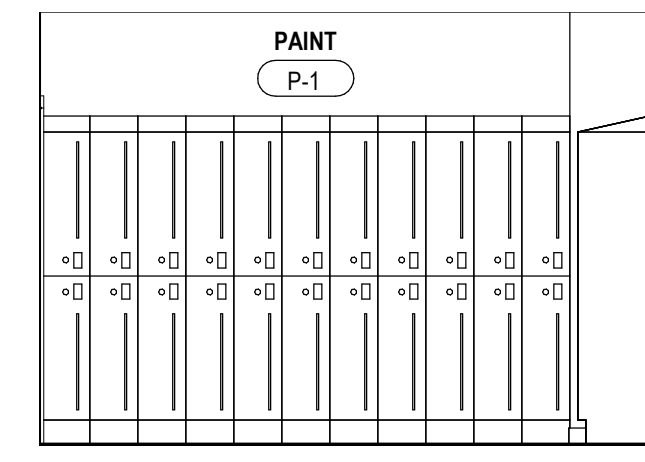
**MECHANICAL & ELECTRICAL ENGINEER**  
BALA Consulting Engineers  
443 South Gulph Rd  
King of Prussia, PA 19406  
p. 610.674.0905 f. 000.000.0000

**PLUMBING ENGINEER**  
VETERAN DESIGN & CONSTRUCTION, Inc.  
5523 Research Park Drive, Suite 110  
Baltimore, MD 21228  
p. 443.543.5081 f. 000.000.0000

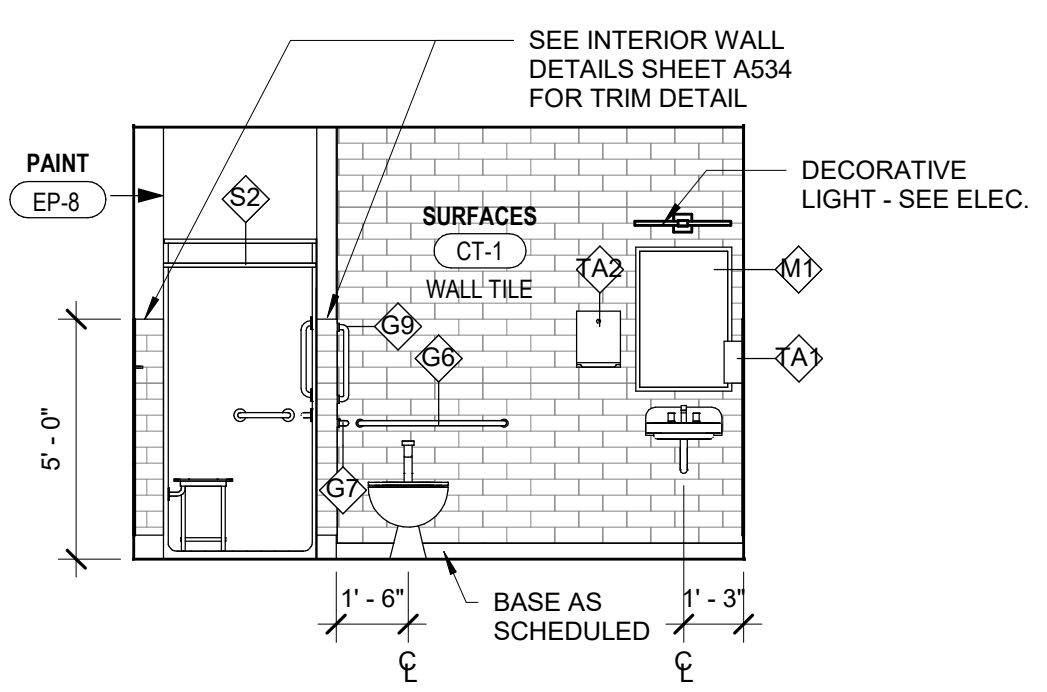
**CIVIL ENGINEERS**  
Keller Engineers, Inc.  
420 Allegheny St.  
Hollidaysburg, PA 16648  
p. 814.696.7430 f. 000.000.0000



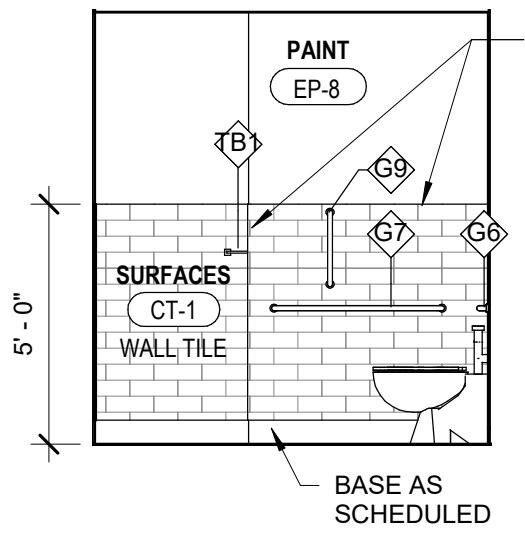
**1G M & F LOCKERS SOUTH**  
A-411 A-411 1/4" = 1'-0"



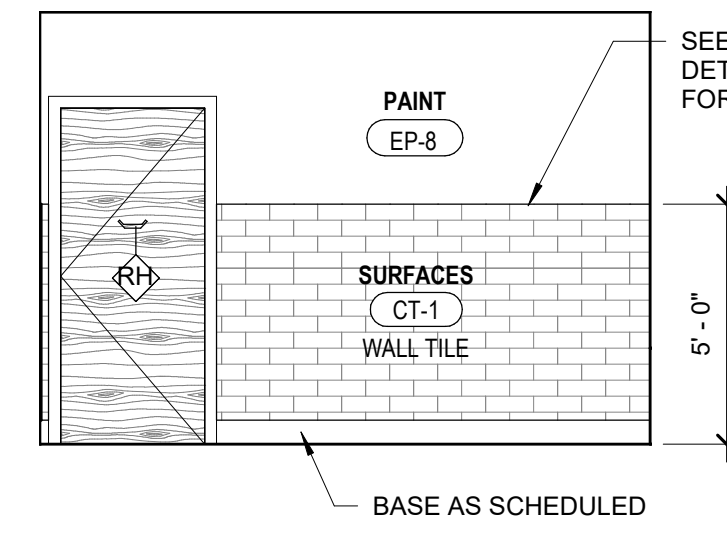
**1J M & F LOCKERS EAST**  
A-411 A-411 1/4" = 1'-0"



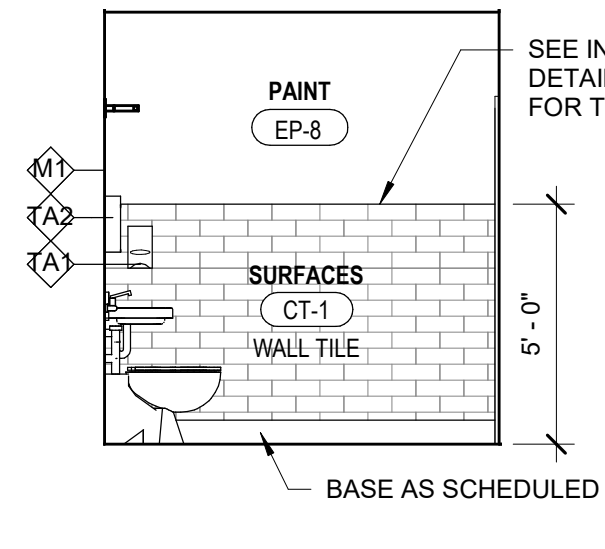
**3C LOCKER TOILET - ELEVATION D**  
A-411 A-411 1/4" = 1'-0"



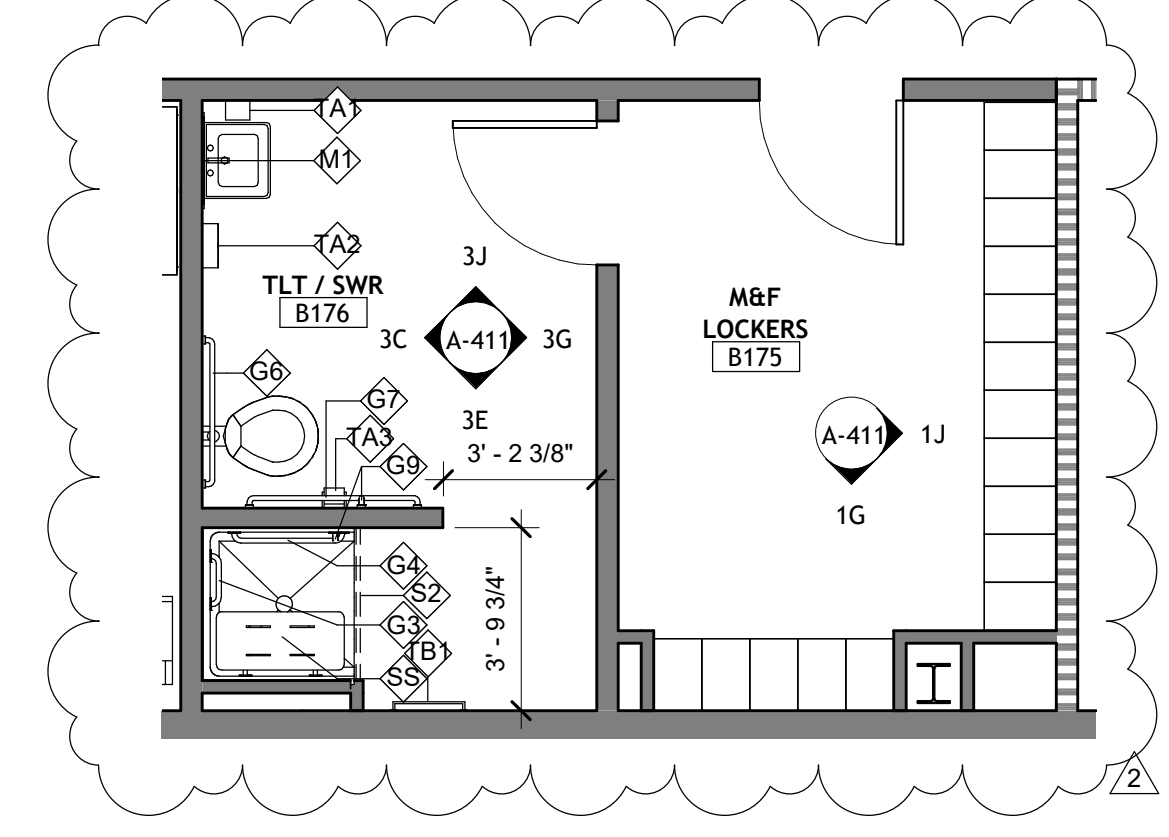
**3E LOCKER TOILET - ELEVATION C**  
A-411 A-411 1/4" = 1'-0"



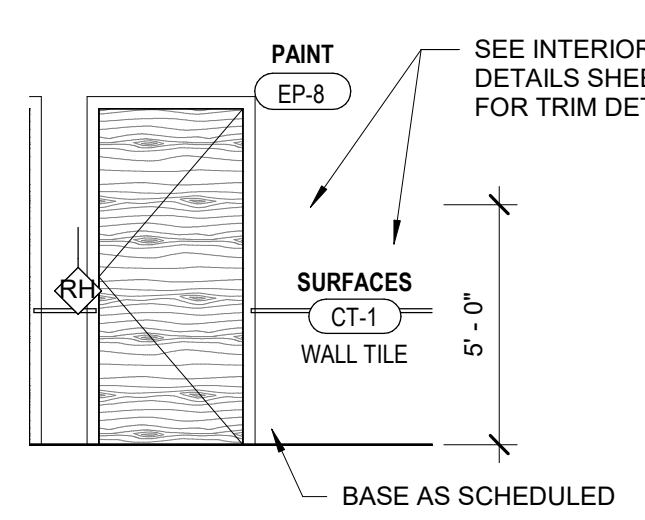
**3G LOCKER TOILET - ELEVATION B**  
A-411 A-411 1/4" = 1'-0"



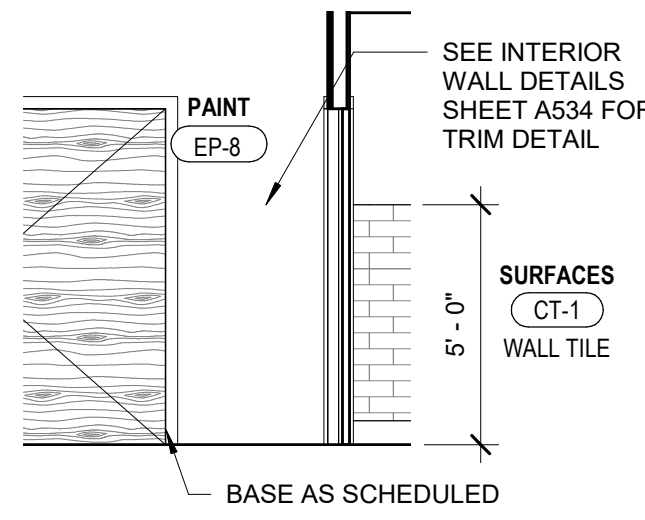
**3J LOCKER TOILET - ELEVATION A**  
A-411 A-411 1/4" = 1'-0"



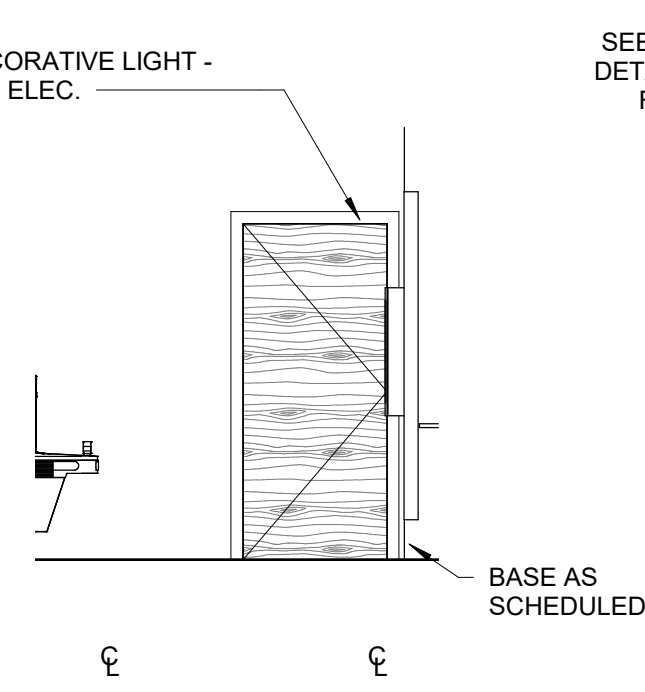
**3K ENLARGED TOILET PLAN - BACK OF HOUSE LOCKERS**  
A-101b A-411 1/4" = 1'-0"



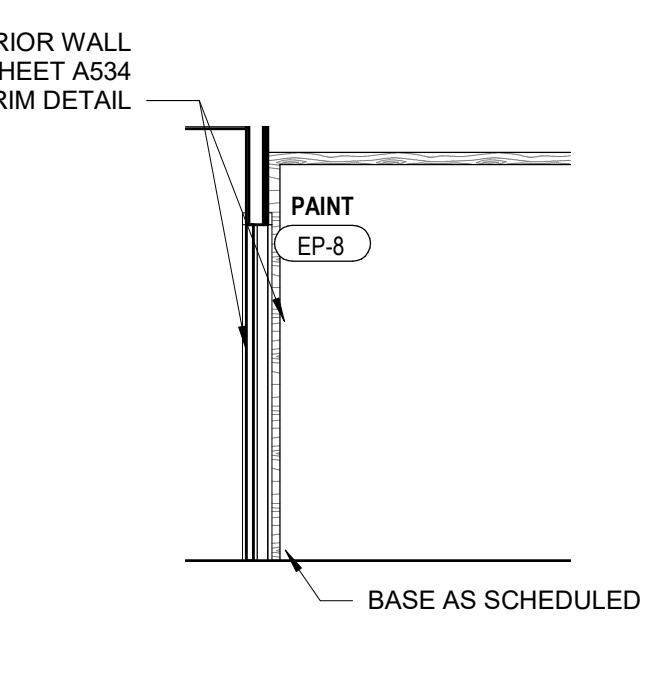
**6C LOBBY TOILET - ELEVATION D**  
A-405 A-411 1/4" = 1'-0"



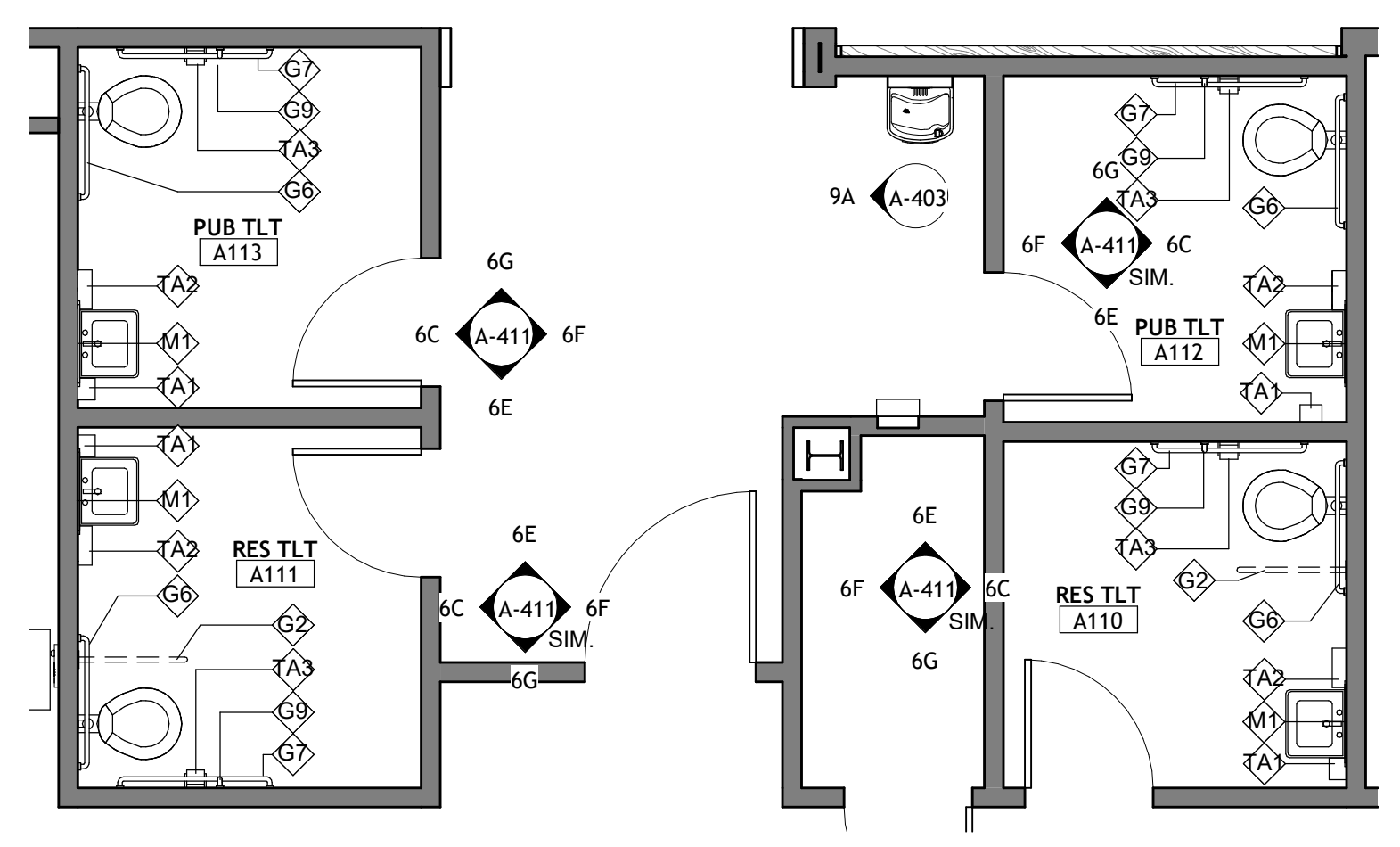
**6E LOBBY TOILET - ELEVATION C**  
A-405 A-411 1/4" = 1'-0"



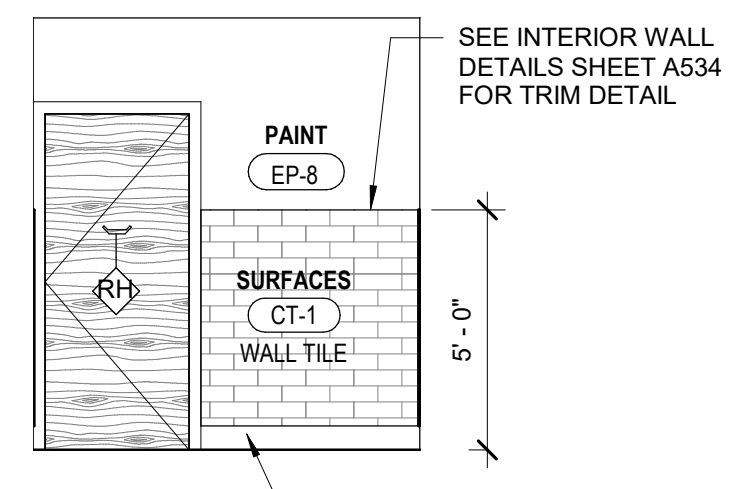
**6F LOBBY TOILET - ELEVATION B**  
A-405 A-411 1/4" = 1'-0"



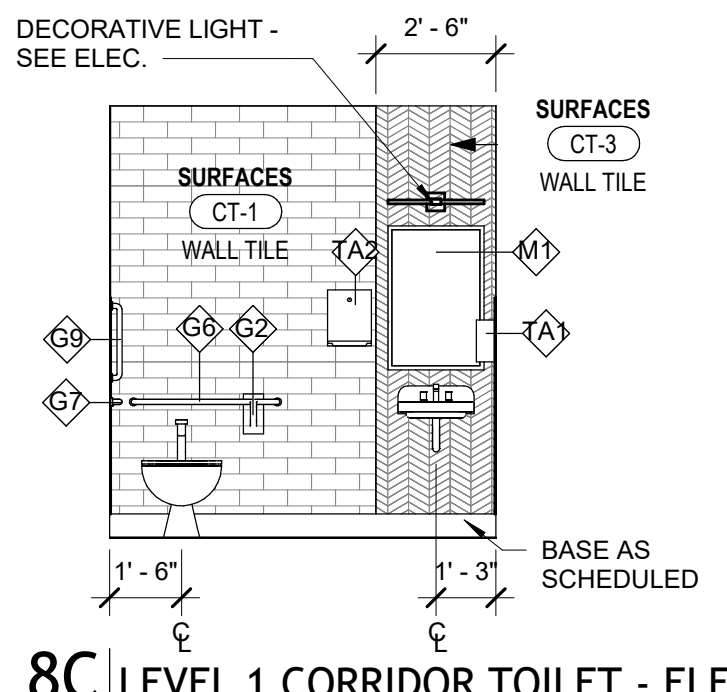
**6G LOBBY TOILET - ELEVATION A**  
A-405 A-411 1/4" = 1'-0"



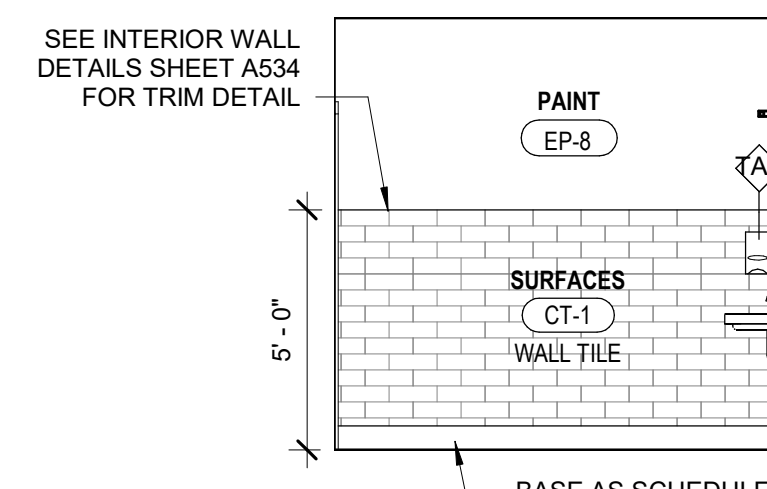
**6J ENLARGED TOILET PLANS - LOBBY**  
A-101a A-411 1/4" = 1'-0"



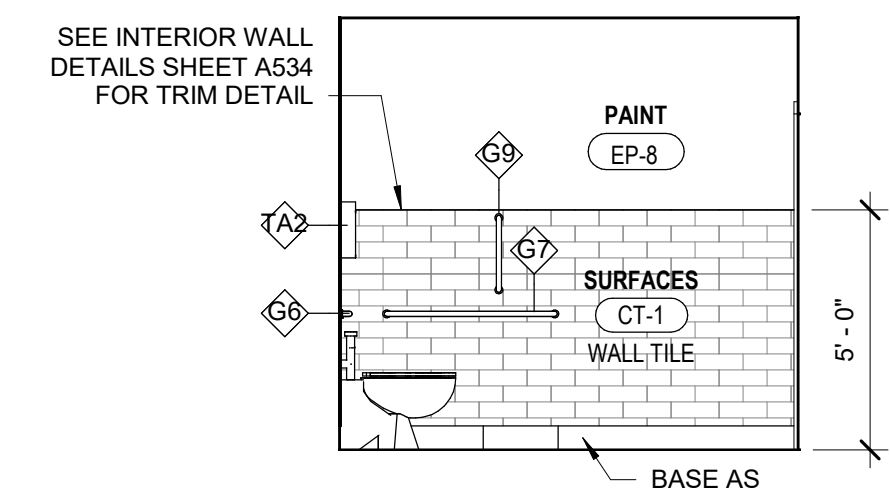
**8A LEVEL 1 CORRIDOR TOILET - ELEVATION D**  
A-404 A-411 1/4" = 1'-0"



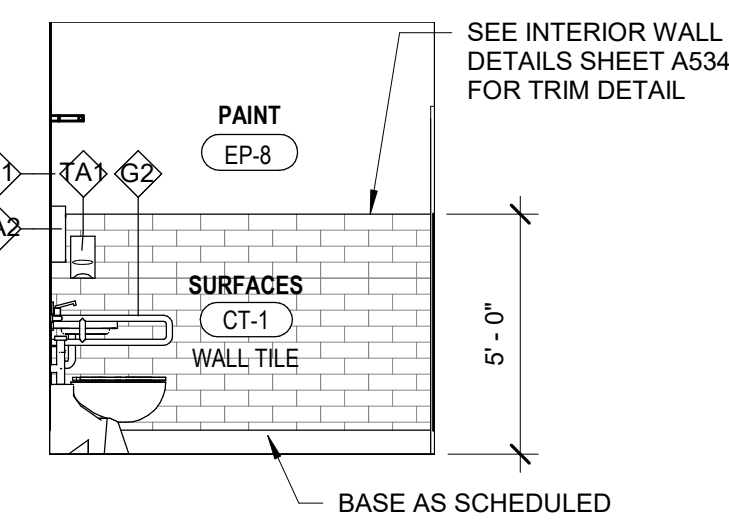
**8C LEVEL 1 CORRIDOR TOILET - ELEVATION C**  
A-404 A-411 1/4" = 1'-0"



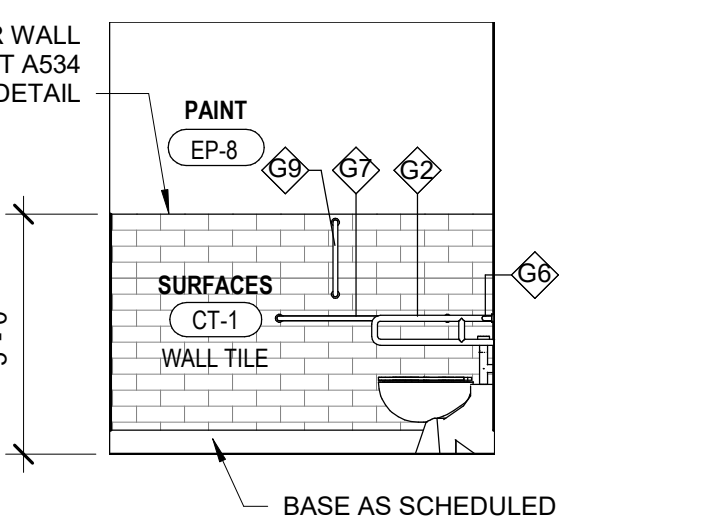
**8G LEVEL 1 STAFF TOILET - ELEVATION D**  
A-411 A-411 1/4" = 1'-0"



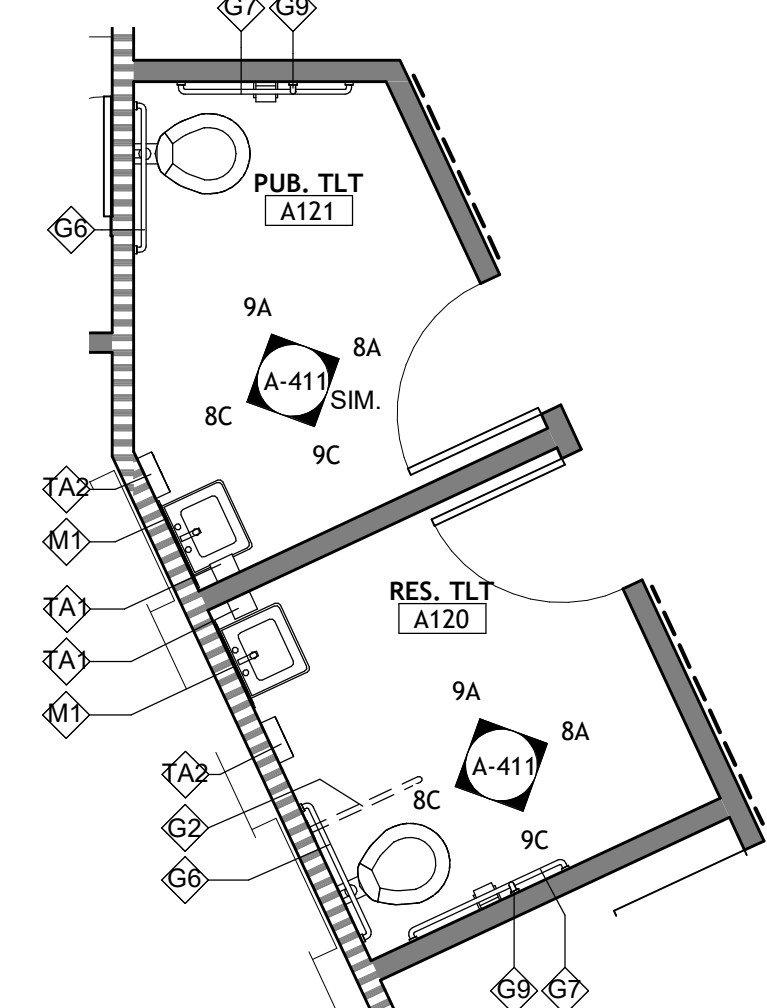
**8J LEVEL 1 STAFF TOILET - ELEVATION C**  
A-411 A-411 1/4" = 1'-0"



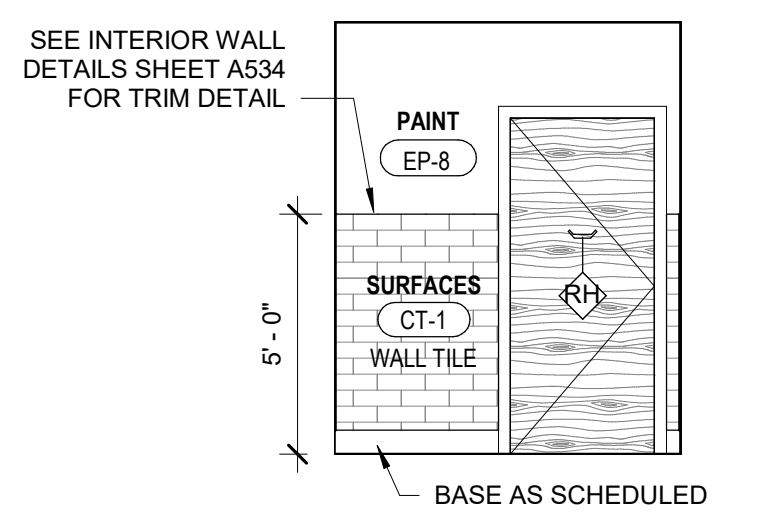
**9A LEVEL 1 CORRIDOR TOILET - ELEVATION B**  
A-404 A-411 1/4" = 1'-0"



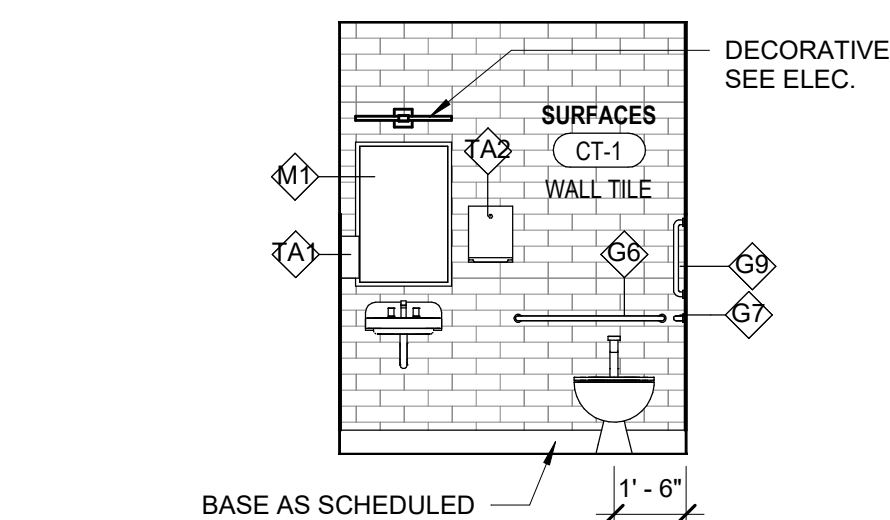
**9C LEVEL 1 CORRIDOR TOILET - ELEVATION A**  
A-404 A-411 1/4" = 1'-0"



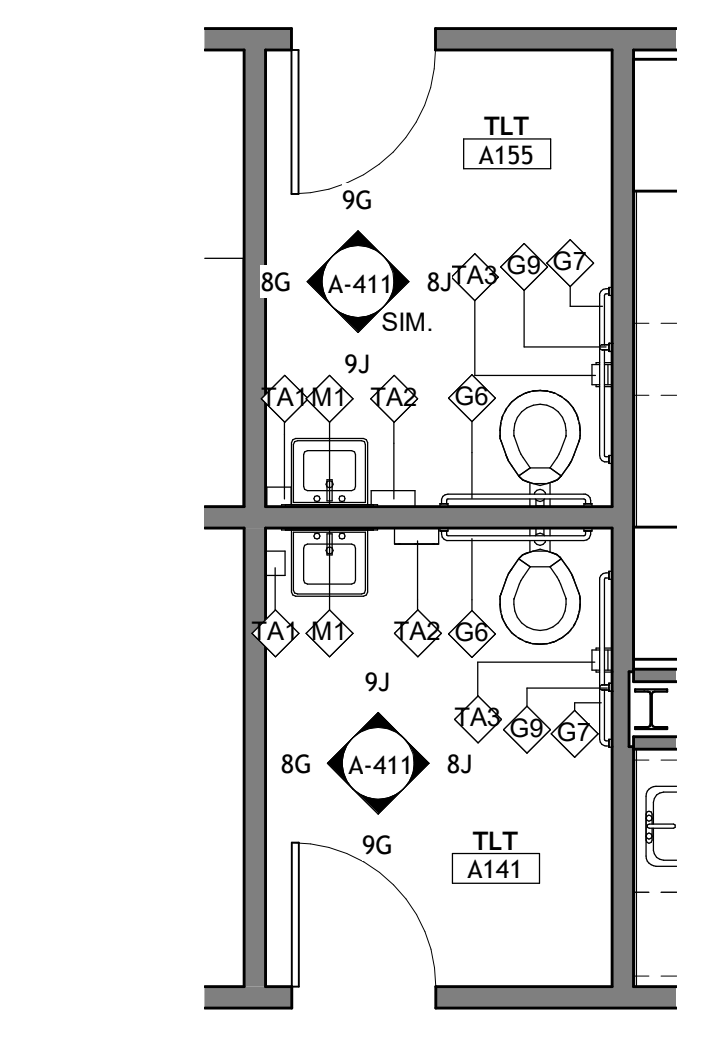
**9E ENLARGED TOILET PLANS - LEVEL 1 CORRIDOR**  
A-101a A-411 1/4" = 1'-0"



**9G LEVEL 1 STAFF TOILET - ELEVATION B**  
A-406 A-411 1/4" = 1'-0"



**9J LEVEL 1 STAFF TOILET - ELEVATION A**  
A-406 A-411 1/4" = 1'-0"



**9K ENLARGED TOILET PLAN - LEVEL 1 STAFF**  
A-101a A-411 1/4" = 1'-0"

**VERIFY SCALE**  
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING  
IF BAR IS NOT ONE (1) INCH LONG ADJUST SCALE ACCORDINGLY  
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL

no.	date	revision
1	12.09.2022	ADDENDUM 5
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
700 E. Pratt St., Suite 1200  
Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

CONSTRUCTION OF NEW COMMUNITY VETERANS' HOME  
DUNCANSVILLE, BLAIR COUNTY, PA

ENLARGED TOILET PLANS & ELEVATIONS

Drawn by: Author  
Date: 10-07-2022  
Checked by: Checker  
Scale: As indicated  
Drawing No: **A-411**

MARK	DESCRIPTION	MOUNTING REQUIREMENTS
G1	SWING UP GRAB BAR WITH TOILET PAPER HOLDER	34" A.F.F. TO CENTERLINE U.N.O.
G2	SWING UP GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G5	36" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G6	36" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G7	42" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G9	18" VERTICAL GRAB BAR	40" A.F.F. TO BOTTOM U.N.O.
M1	24" x 36" MIRROR WITH FRAME	42" A.F.F. TO BOTTOM OF FRAME
M2	36" x 36" LIGHTED MIRROR	42" A.F.F. TO BOTTOM OF FRAME
RH	ROBE HOOK	4'-6" A.F.F. TO BOTTOM U.N.O.
S2	SHOWER CURTAIN ROD	6'-2" A.F.F. TO ROD, U.N.O.
TA1	SOAP DISPENSER	
TA2	PAPER TOWEL DISPENSER	
TA3	TOILET PAPER HOLDER	
TB1	18" TOWEL BAR	48" A.F.F. TO CENTERLINE, U.N.O.
TD1	TRENCH DRAIN - 36" x 4"	34" A.F.F. TO CENTERLINE U.N.O.
G3	12" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
G4	27" GRAB BAR	34" A.F.F. TO CENTERLINE U.N.O.
SS	32 X 16 FOLD DOWN SEAT WITH SWING DOWN LEGS	

**ARCHITECT**  
Hord Coplan Macht, Inc.  
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**LANDSCAPE ARCHITECTURE**  
Hord Coplan Macht, Inc.  
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Baltimore, MD 21202  
p. 410.837.7311 f. 410.837.6530

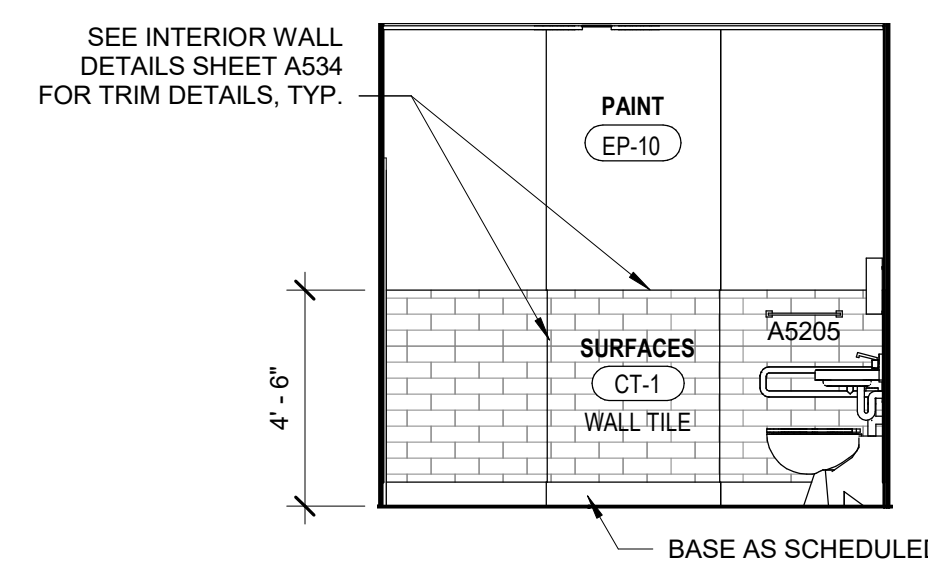
**INTERIOR DESIGN**  
Hord Coplan Macht, Inc.  
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Baltimore, MD 21202  
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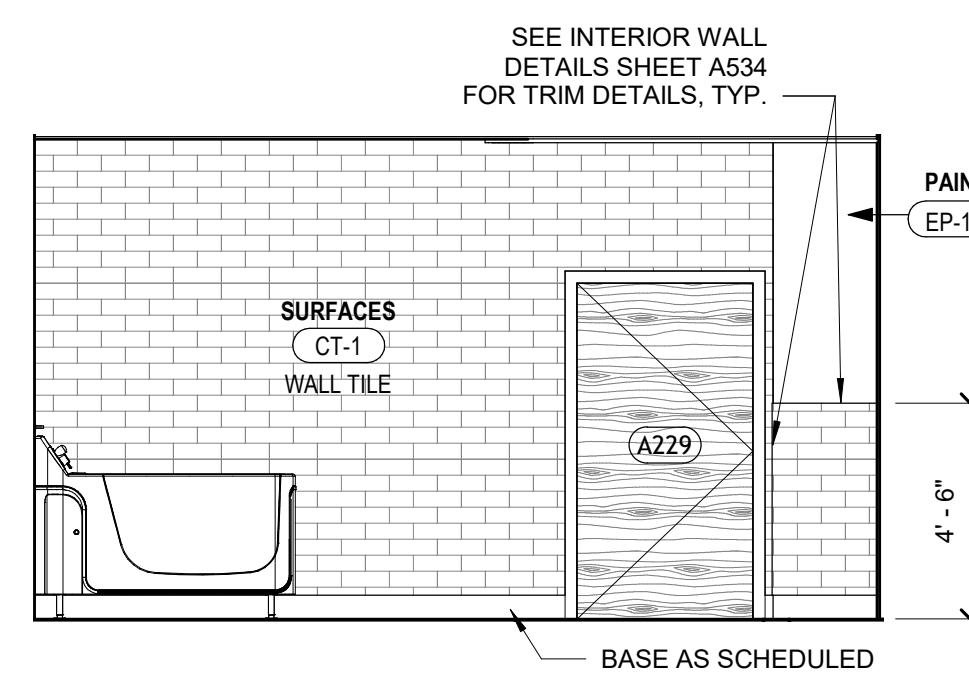
**MECHANICAL & ELECTRICAL ENGINEER**  
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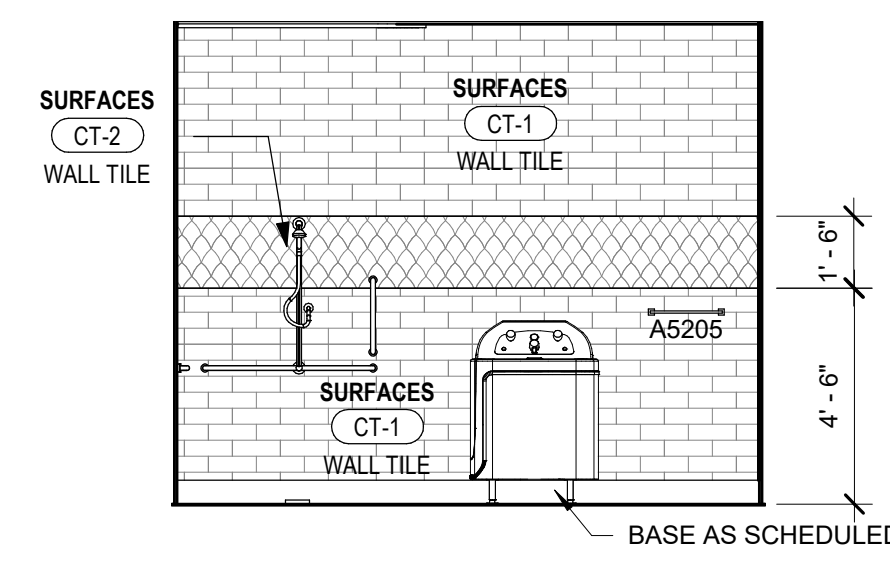
**CIVIL ENGINEERS**  
Keller Engineers, Inc.  
420 Allegheny St.  
Hollidaysburg, PA 16648  
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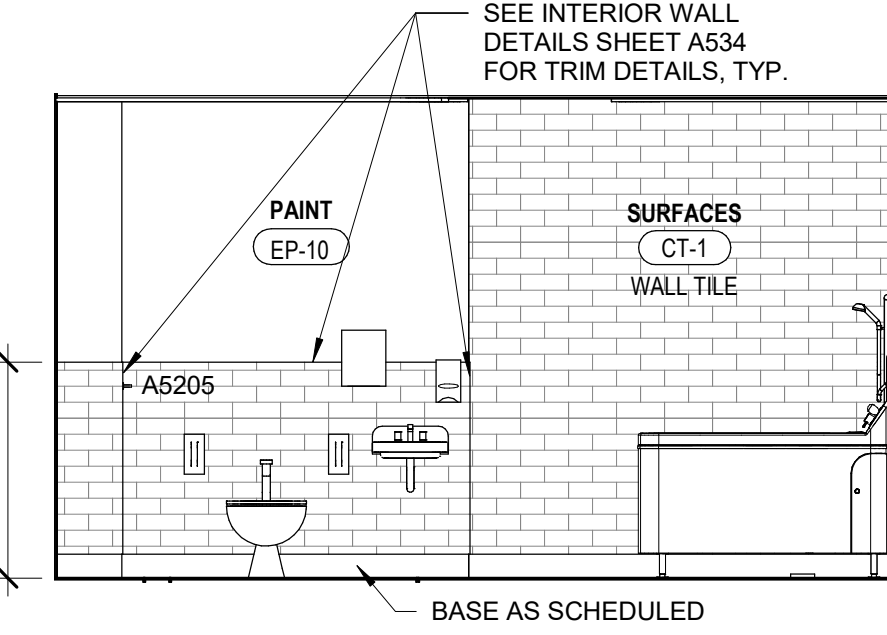
2E BATHING ROOM - ELEVATION D  
A-412 A-412 1/4" = 1'-0"



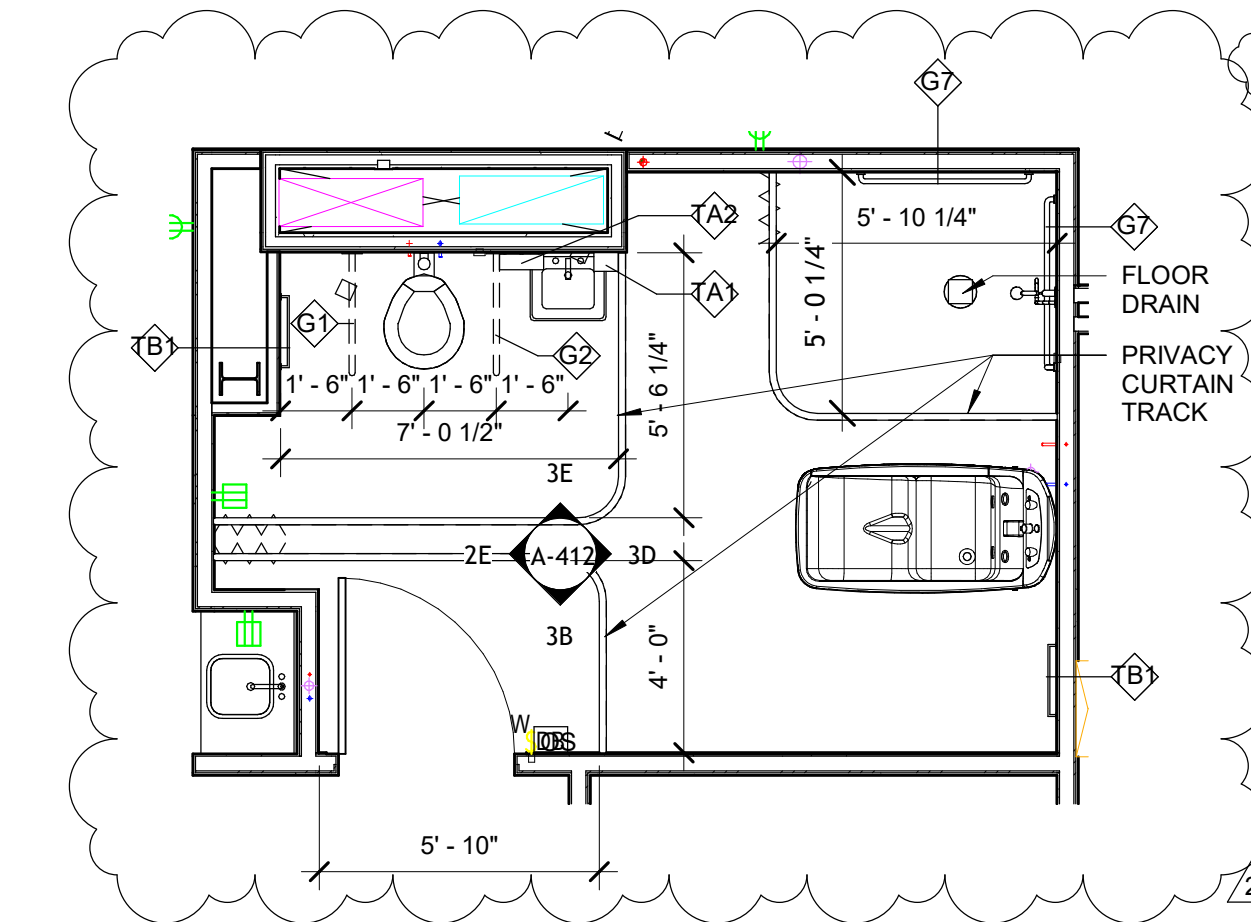
3B BATHING ROOM - ELEVATION C  
A-407 A-412 1/4" = 1'-0"



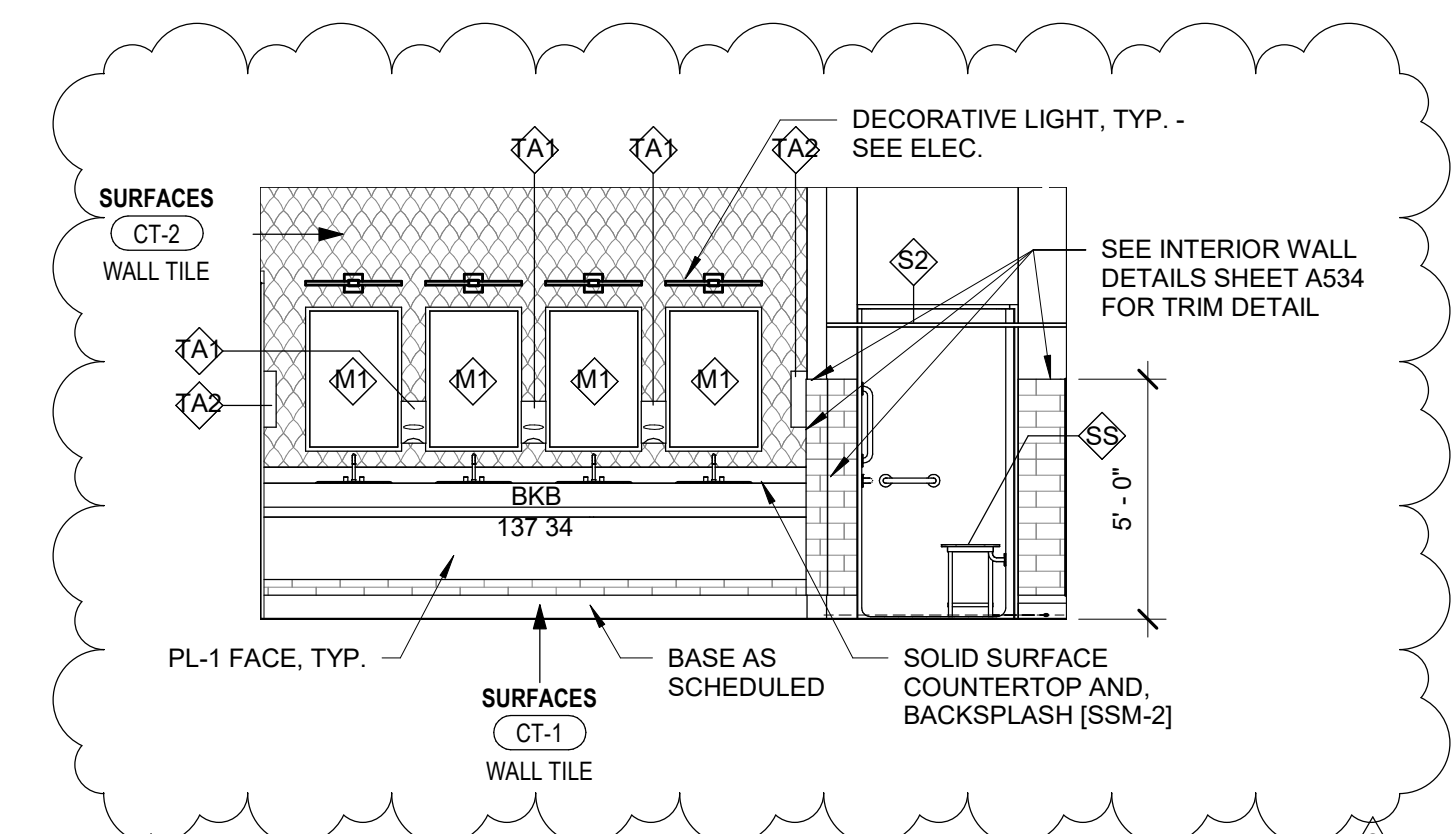
3D BATHING ROOM - ELEVATION B  
A-412 A-412 1/4" = 1'-0"



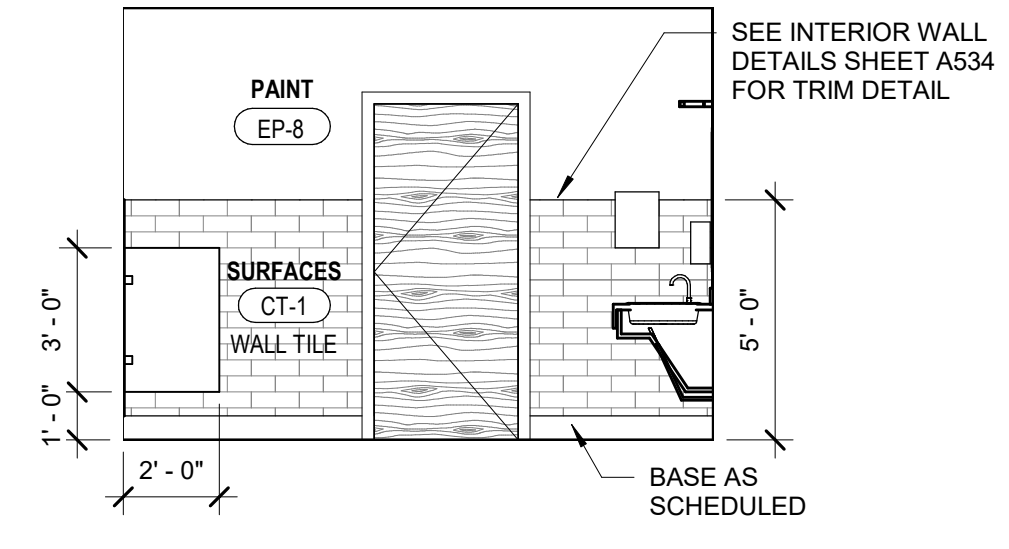
3E BATHING ROOM - ELEVATION A  
A-407 A-412 1/4" = 1'-0"



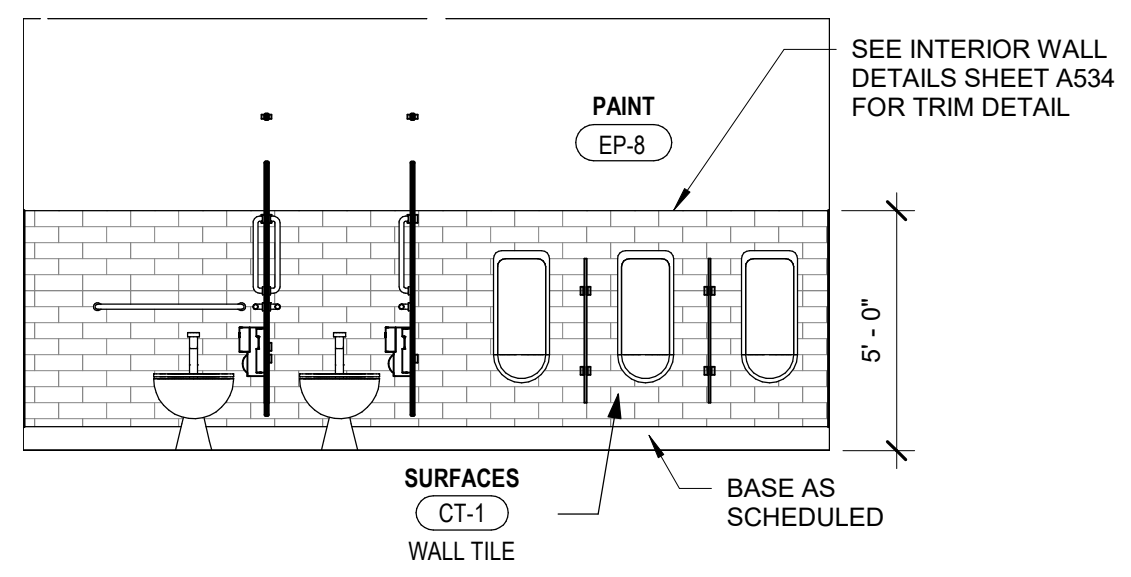
3H ENLARGED PLAN - BATHING ROOM - TYPICAL  
A-1024 A-412 1/4" = 1'-0"



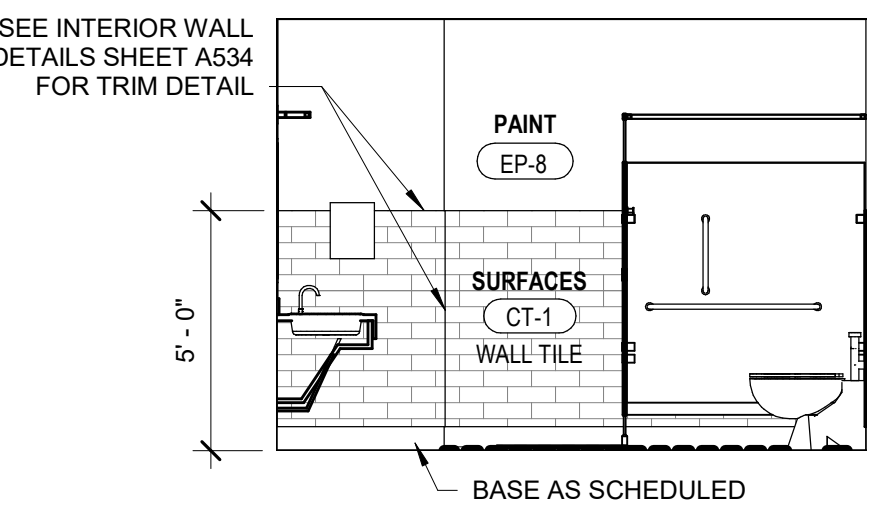
5E MEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION D  
A-407 A-412 1/4" = 1'-0"



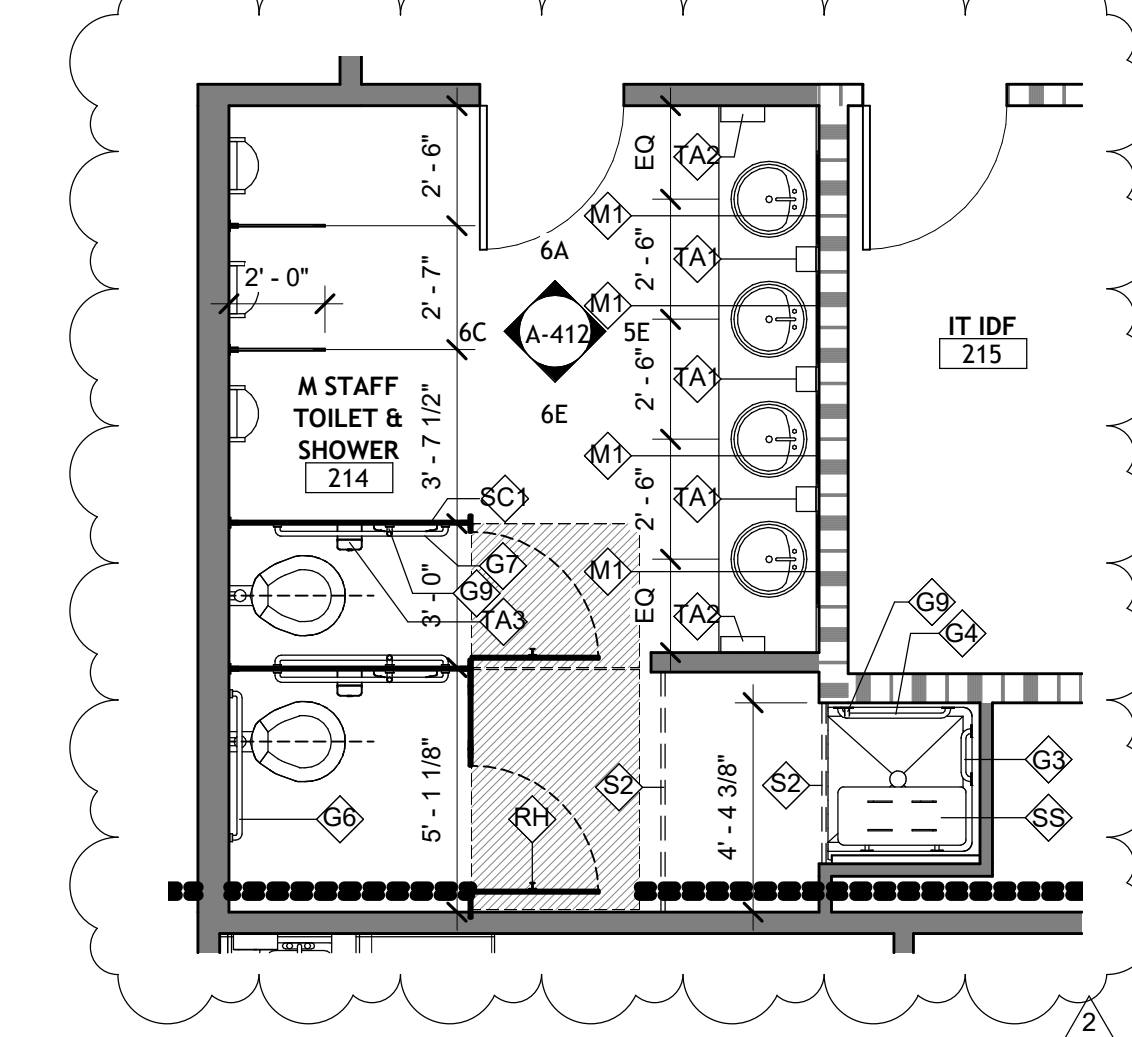
6A MEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION C  
A-412 A-412 1/4" = 1'-0"



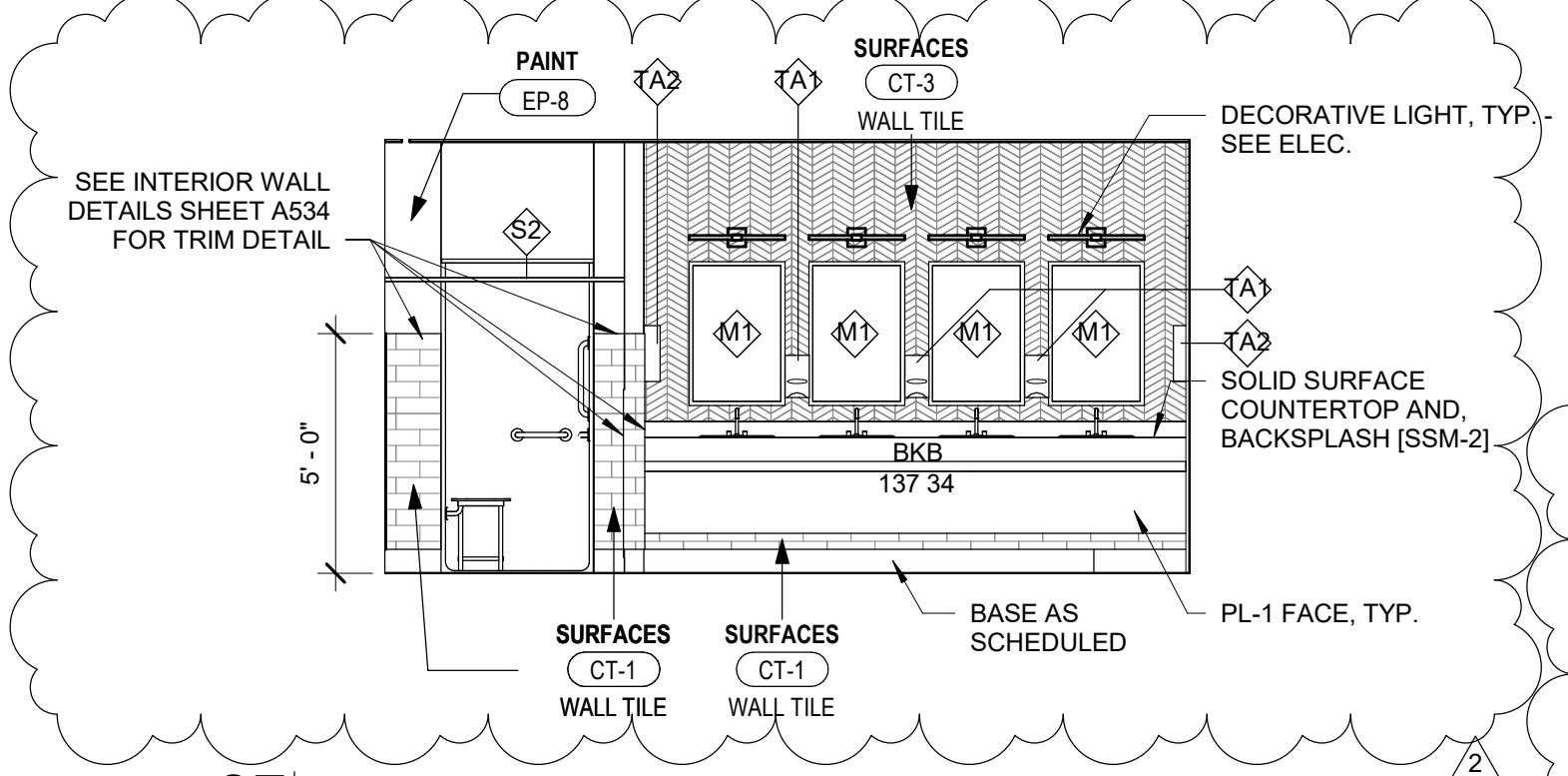
6C MEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION B  
A-407 A-412 1/4" = 1'-0"



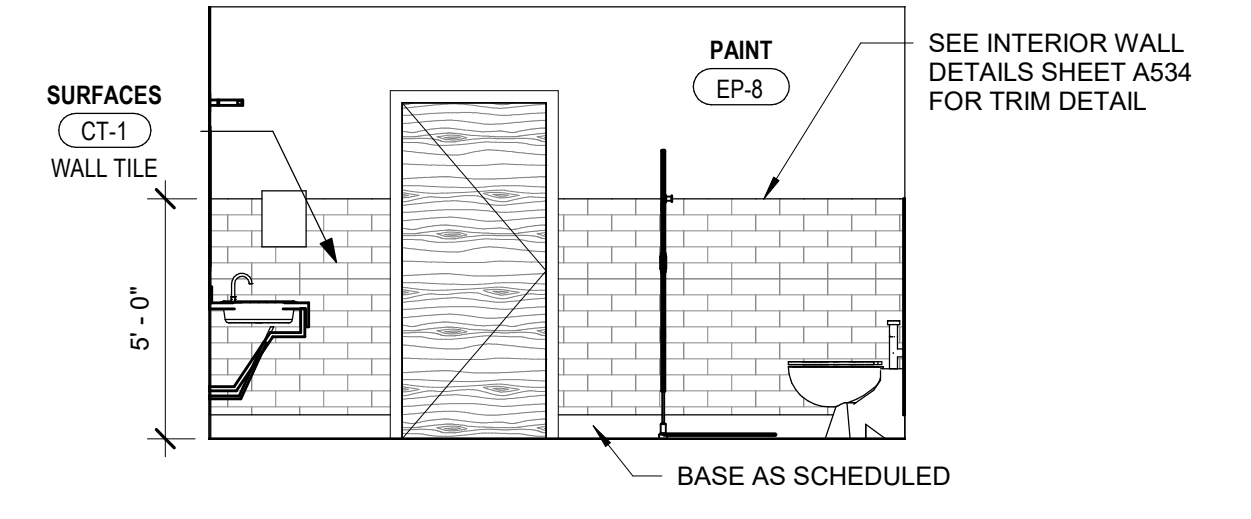
6E MEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION A  
A-412 A-412 1/4" = 1'-0"



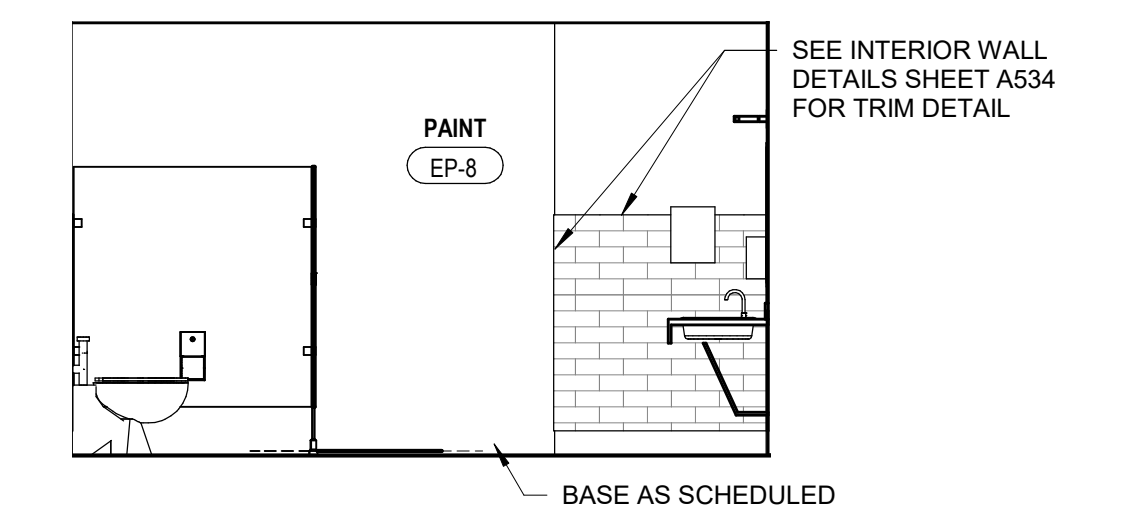
6H ENLARGED MEN'S STAFF TOILETS & SHOWER 2ND & 3RD FLOOR  
A-1024 A-412 1/4" = 1'-0"



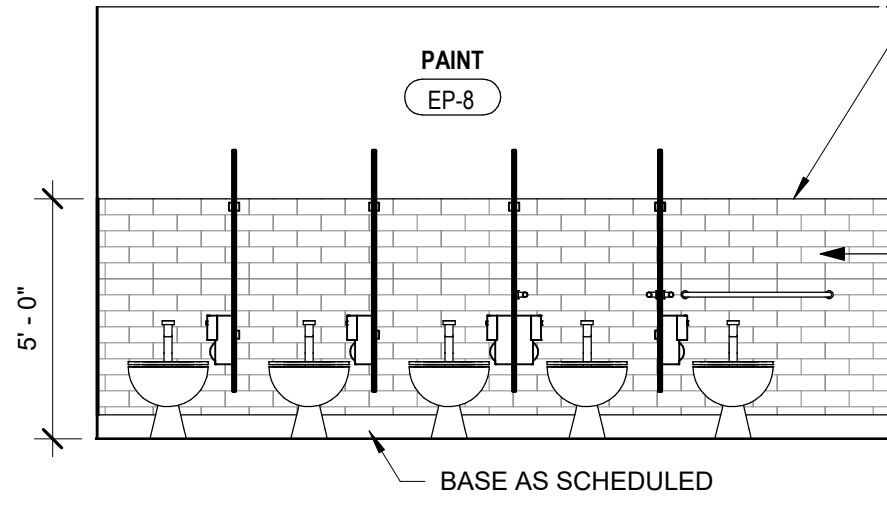
8E WOMEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION C  
A-412 A-412 1/4" = 1'-0"



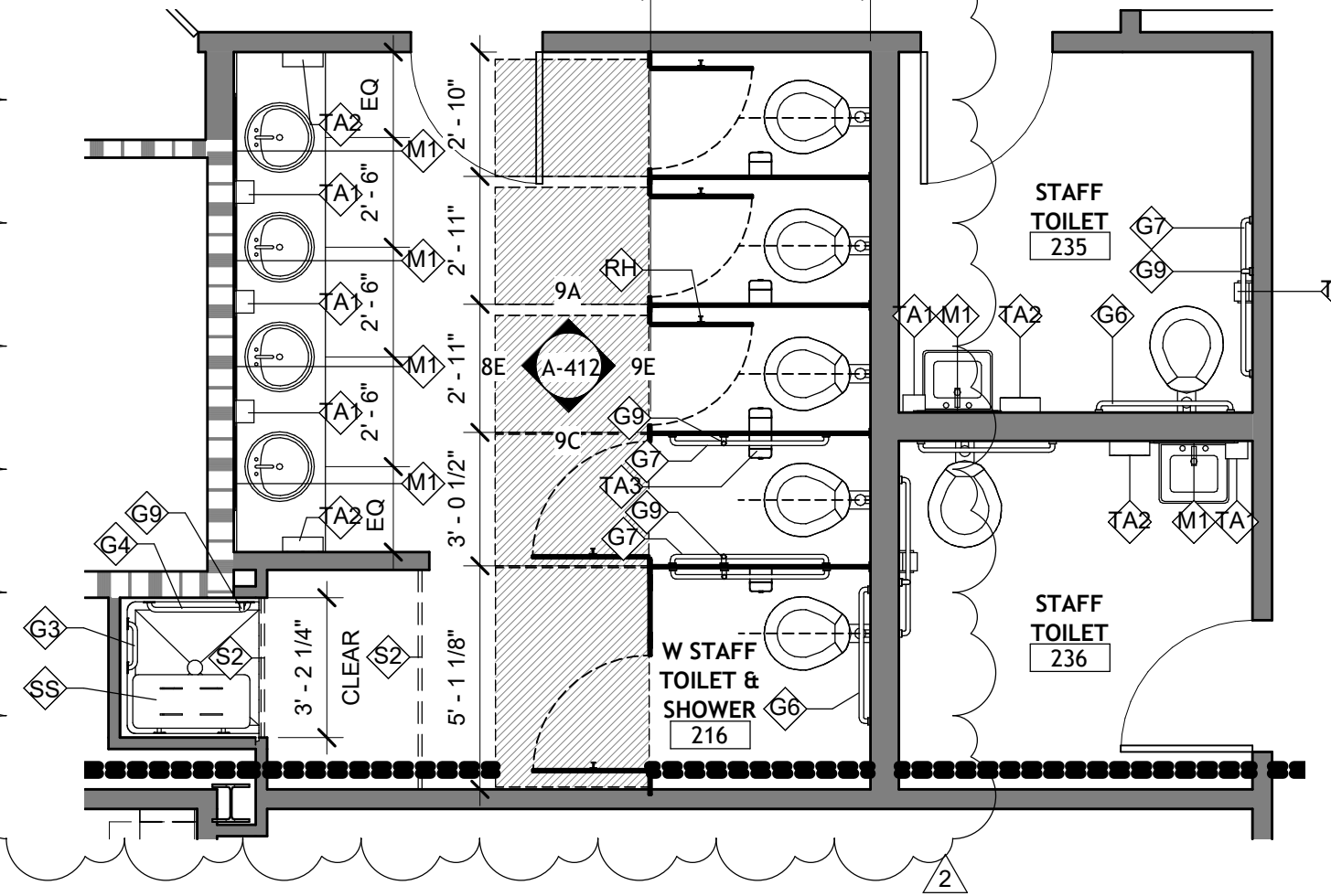
9A WOMEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION D  
A-412 A-412 1/4" = 1'-0"



9C WOMEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION B  
A-412 A-412 1/4" = 1'-0"

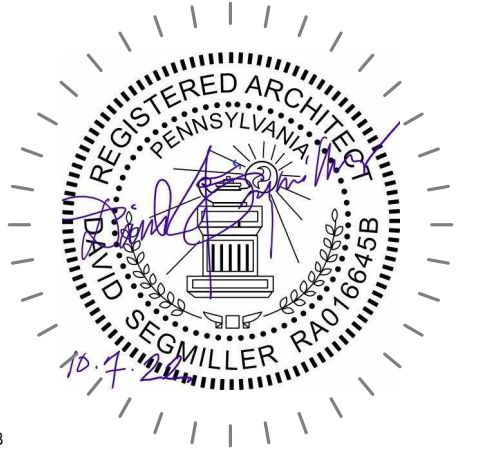


9E WOMEN'S STAFF TOILETS 2ND & 3RD FLOOR - ELEVATION A  
A-412 A-412 1/4" = 1'-0"



9H ENLARGED WOMEN'S STAFF TOILETS & SHOWER 2ND & 3RD FLOOR  
A-1024 A-412 1/4" = 1'-0"

no.	date	revision
2	12.13.2022	ADDENDUM 6
1	12.09.2022	ADDENDUM 5



**Hord Coplan Macht, Inc.**  
700 E. Pratt St, Suite 1200  
Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

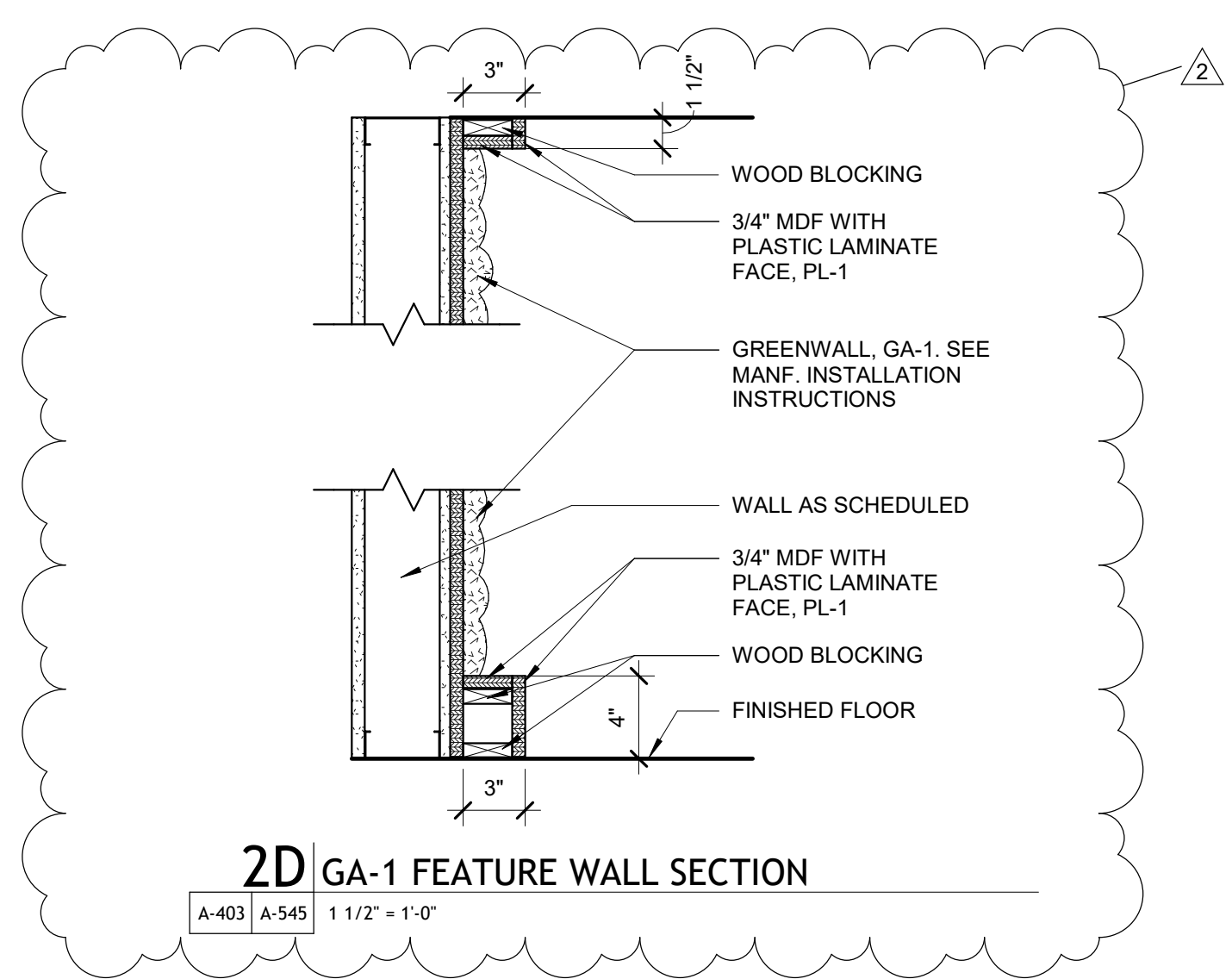
Project Number **D.G.S. C-0969-0017-001**

CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME  
DUNCANSVILLE, BLAIR COUNTY, PA

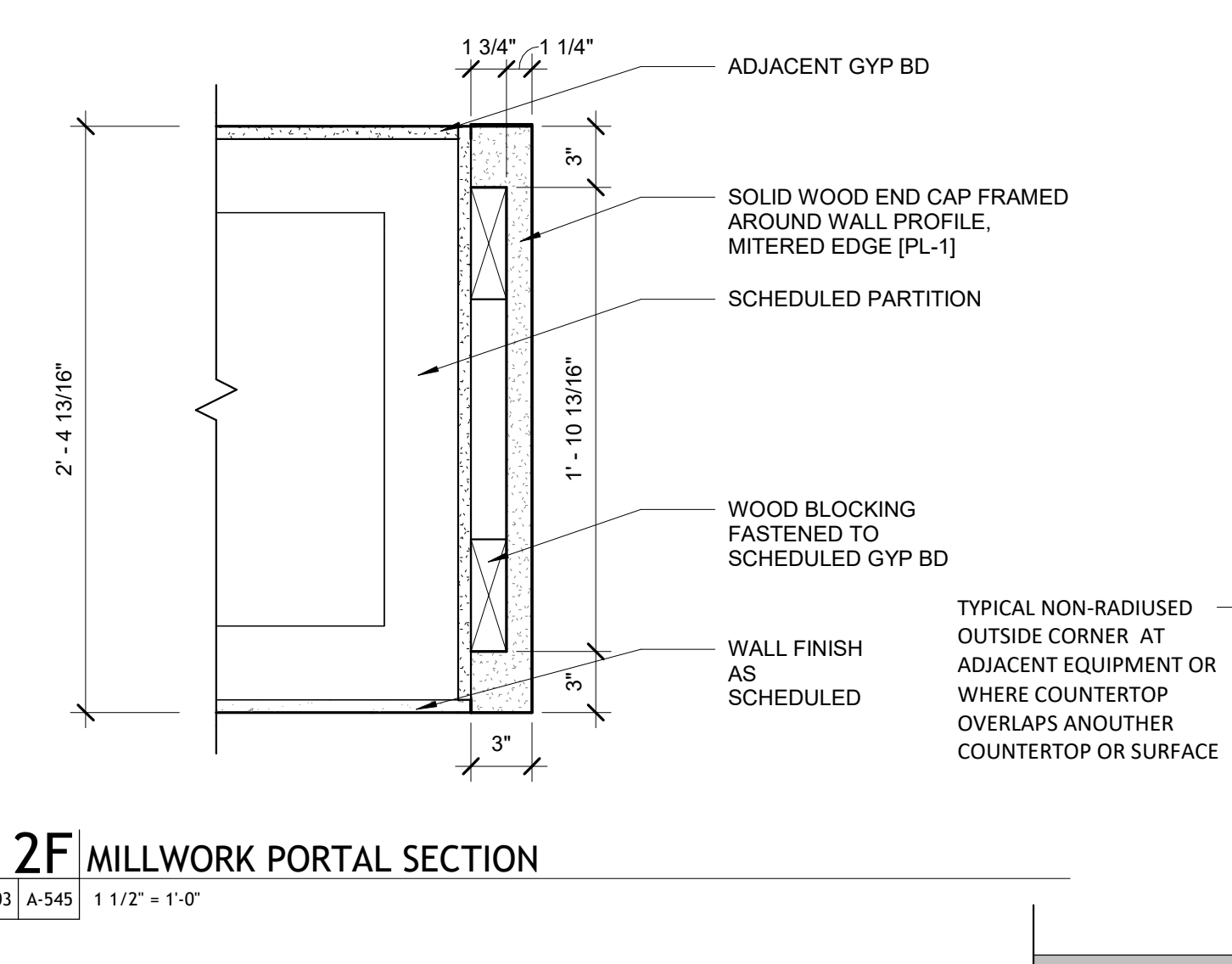
ENLARGED TOILET PLANS & ELEVATIONS

Drawn by	Date	Drawing No.
Author	10-07-2022	<b>A-412</b>
Checked by	Scale	
Checker	As indicated	

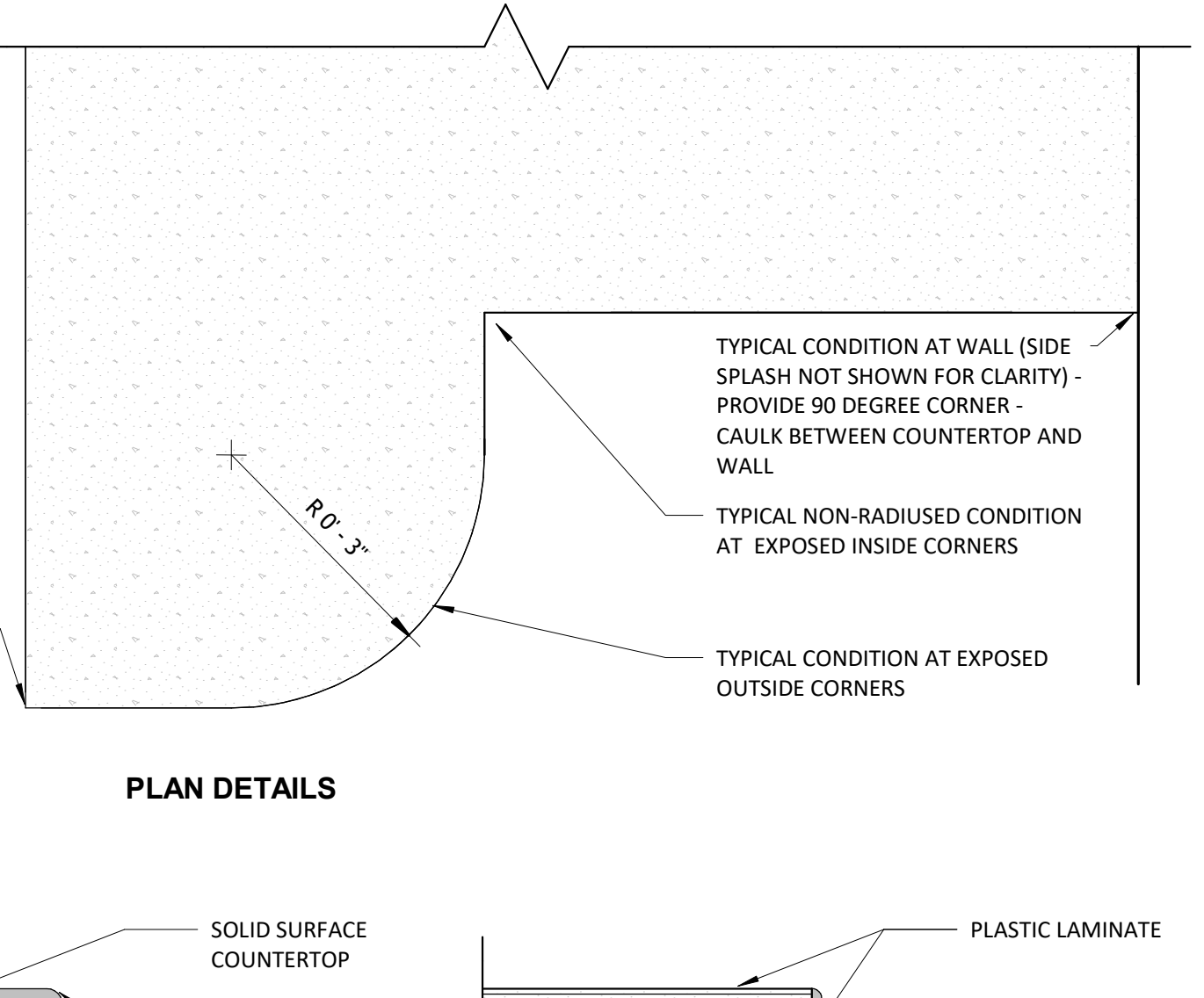
**VERIFY SCALE**  
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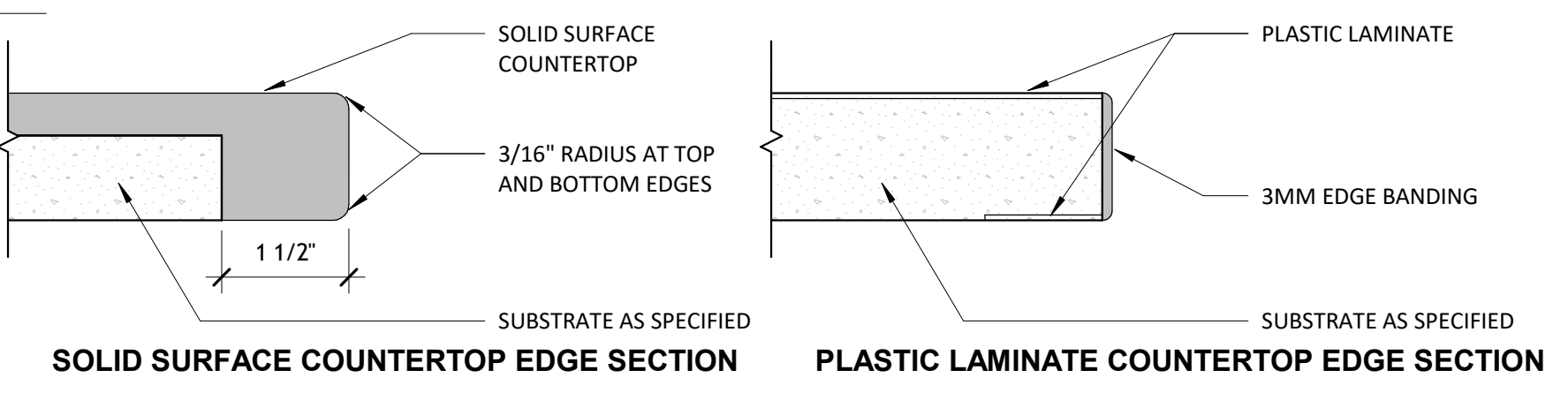
**2D** GA-1 FEATURE WALL SECTION  
A-403 | A-545 | 1 1/2" x 1'-0"



**2F** MILLWORK PORTAL SECTION  
A-403 | A-545 | 1 1/2" x 1'-0"

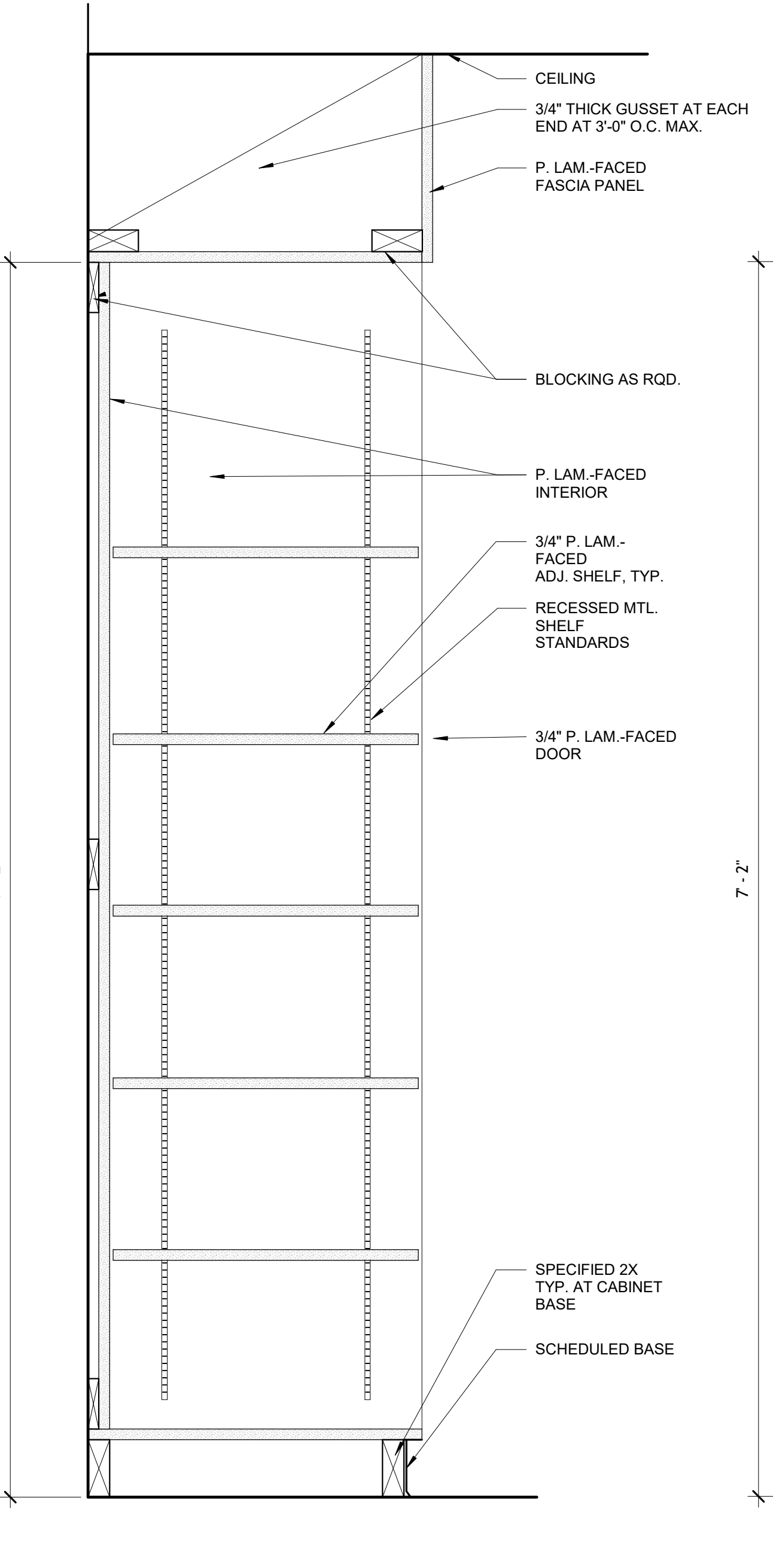


**PLAN DETAILS**

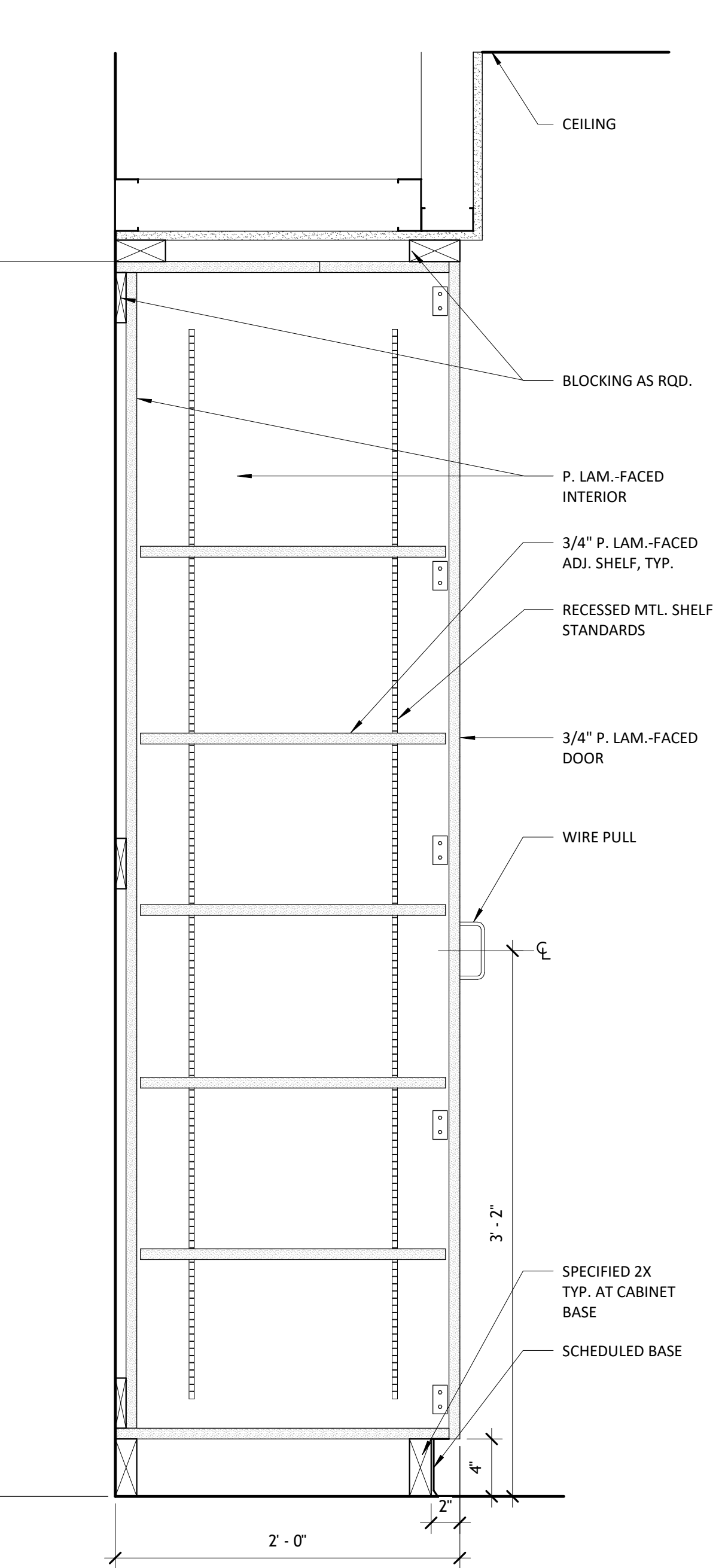


**SOLID SURFACE COUNTERTOP EDGE SECTION**      **PLASTIC LAMINATE COUNTERTOP EDGE SECTION**

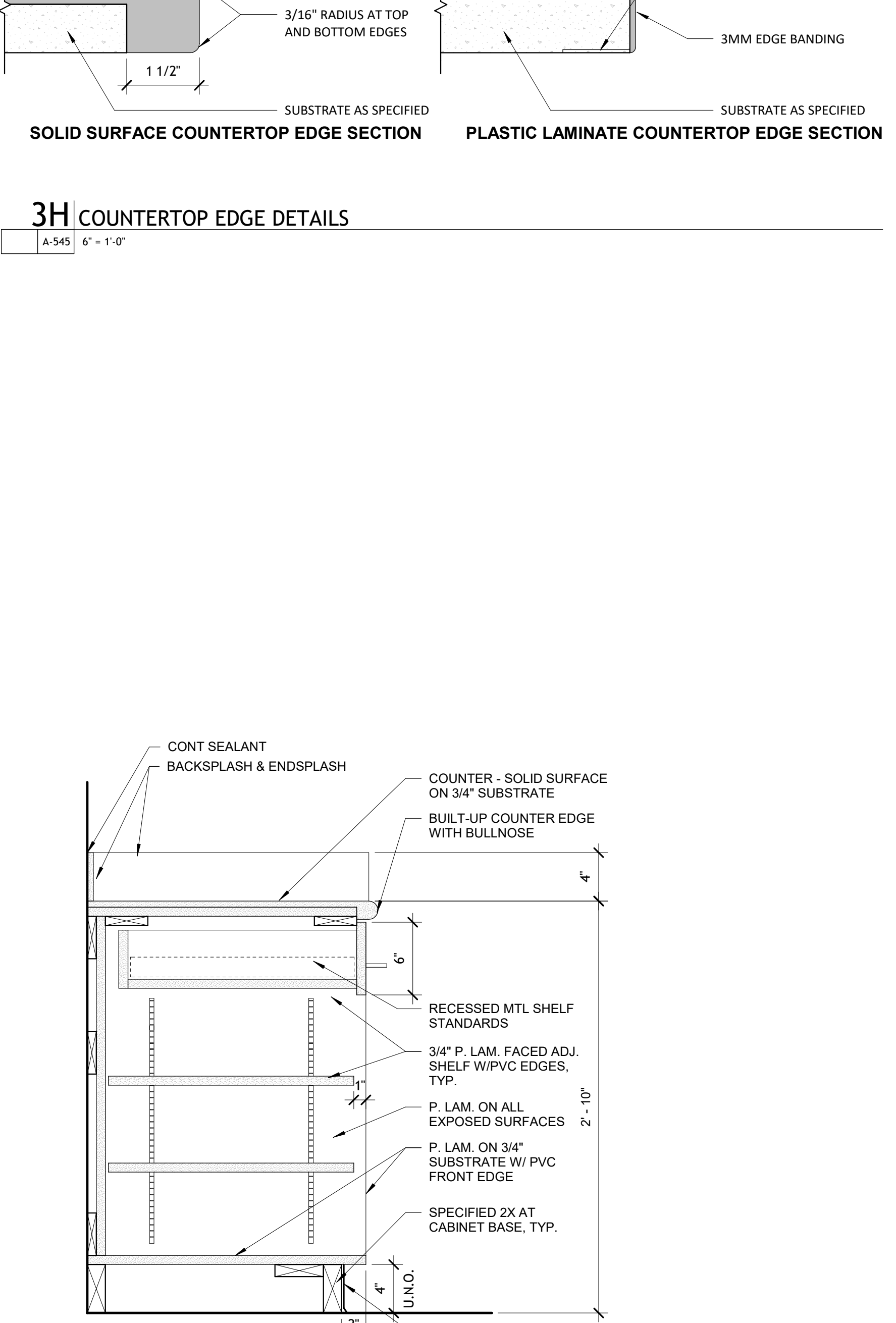
**3H** COUNTERTOP EDGE DETAILS  
A-545 | 6" x 1'-0"



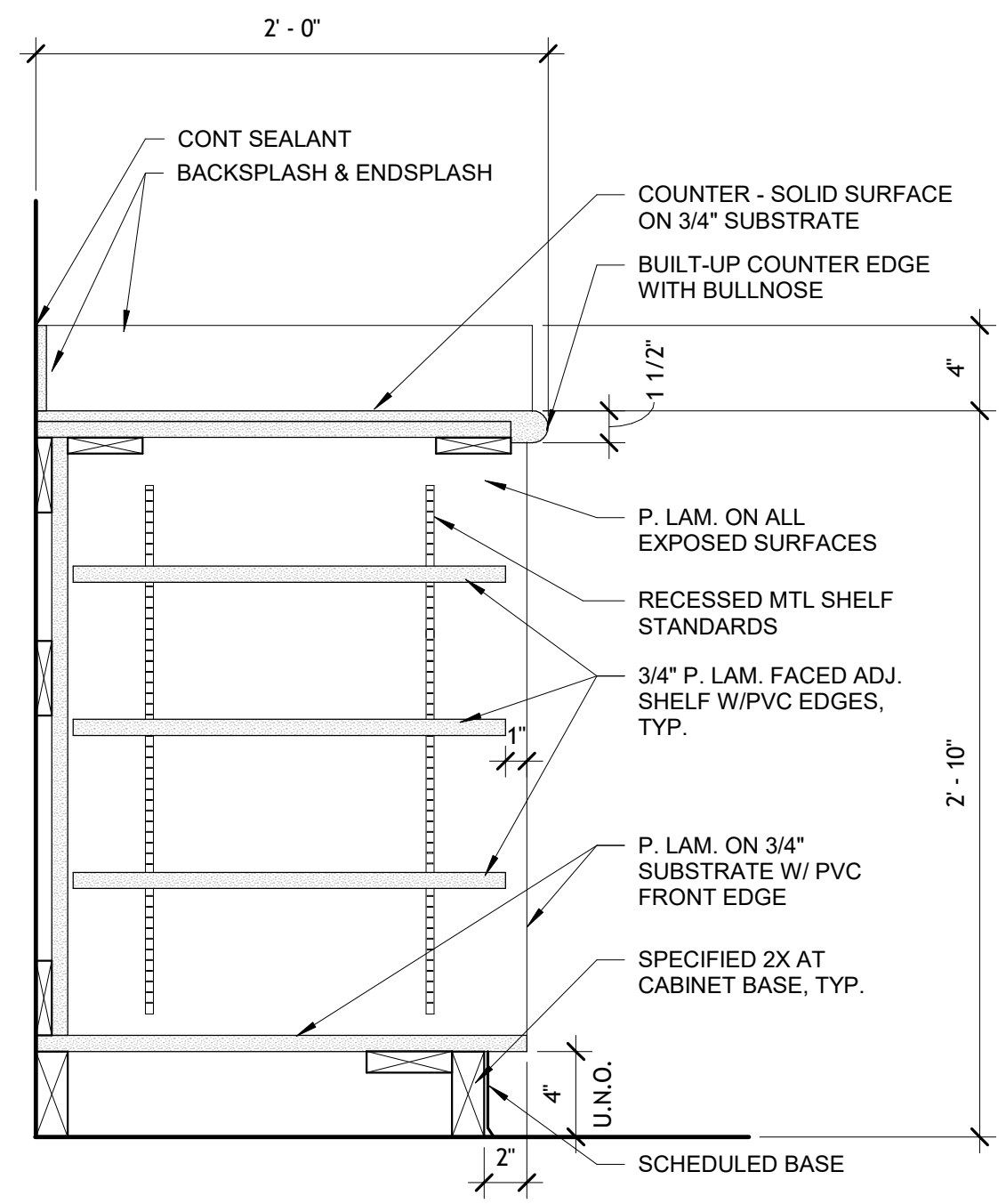
**7D** FFS SECTION  
A-545 | 1 1/2" x 1'-0"



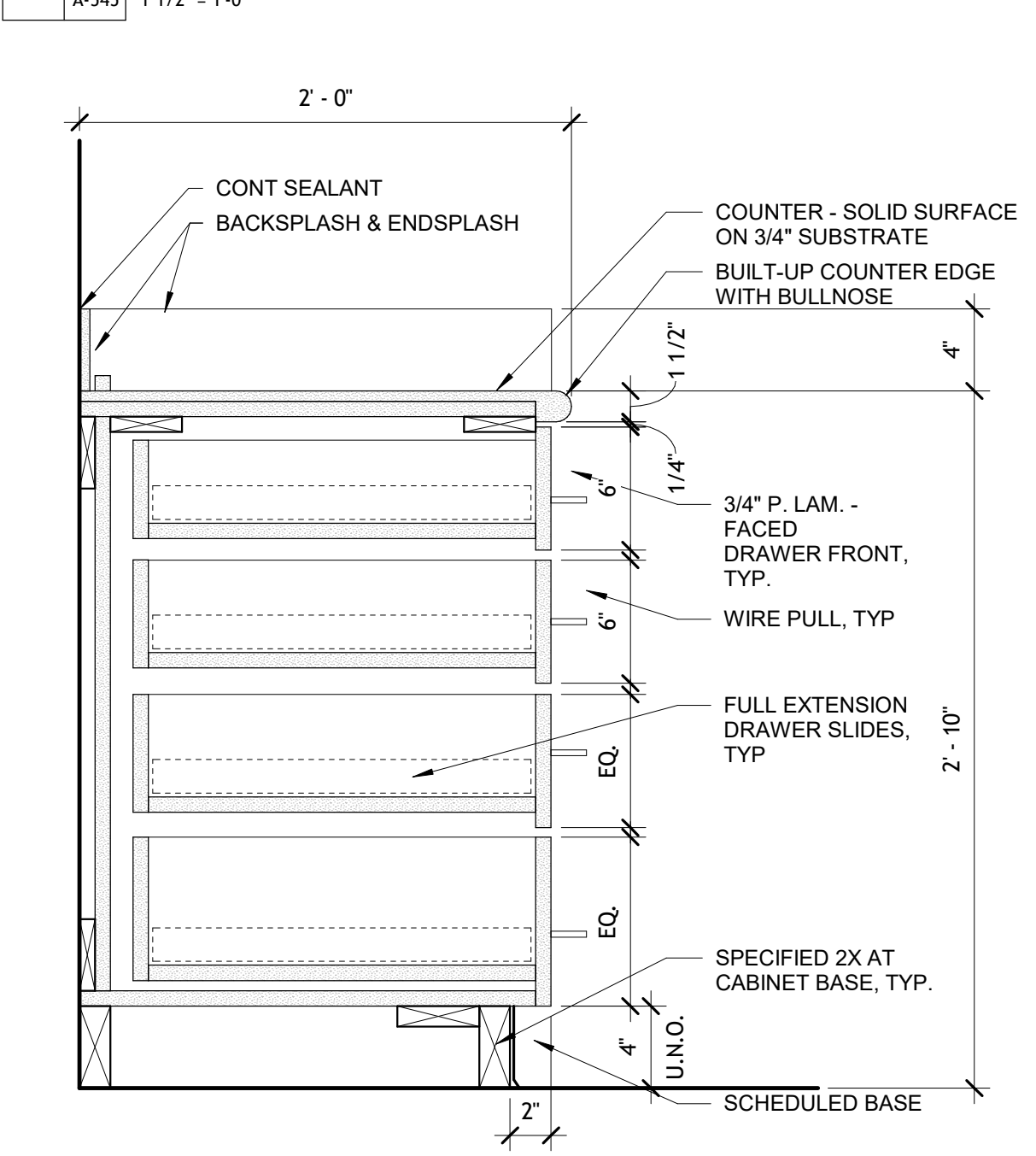
**7F** FCA/FCB SECTION  
A-545 | 1 1/2" x 1'-0"



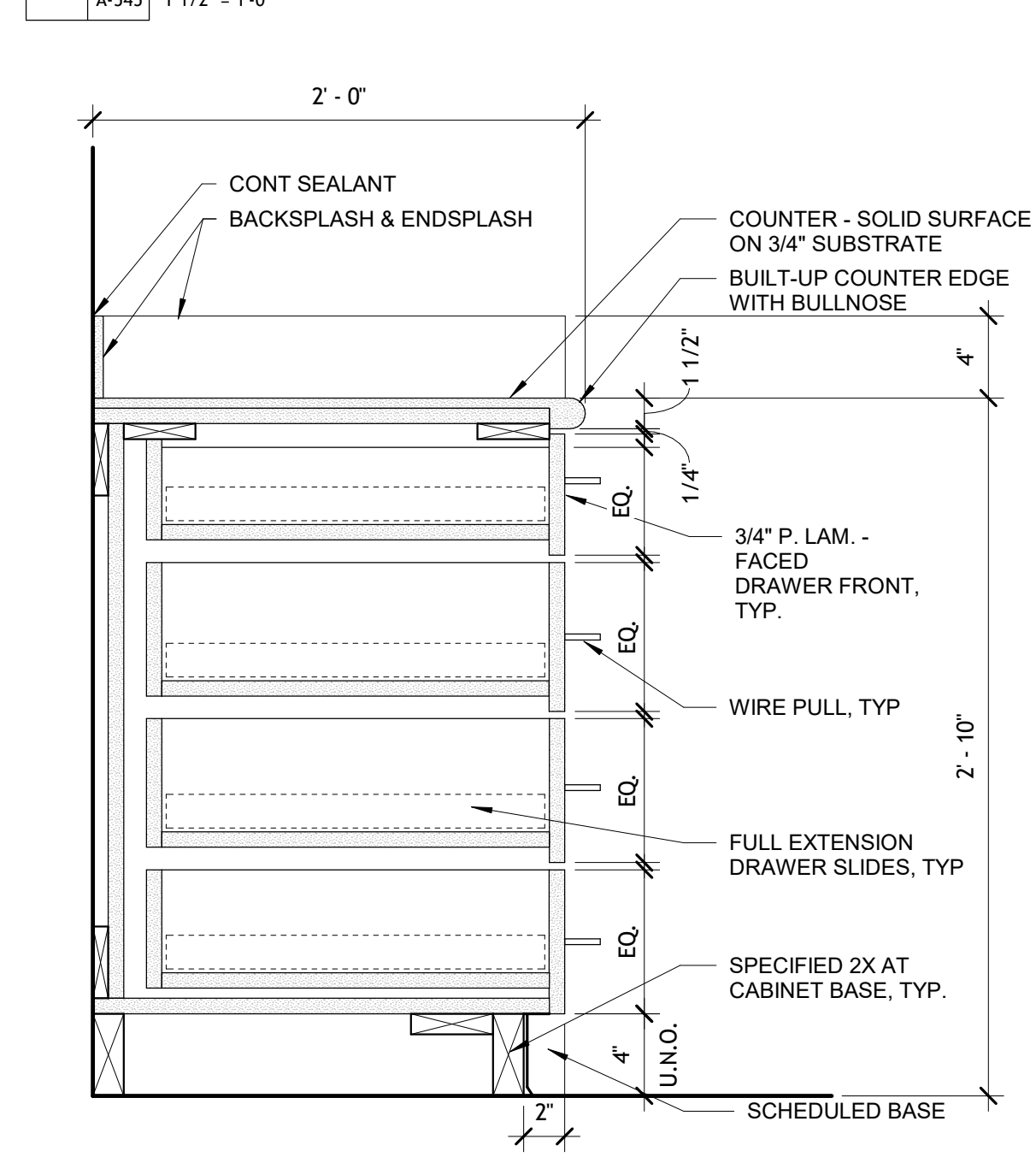
**7H** BSA BASE SHELVES  
A-545 | 1 1/2" x 1'-0"



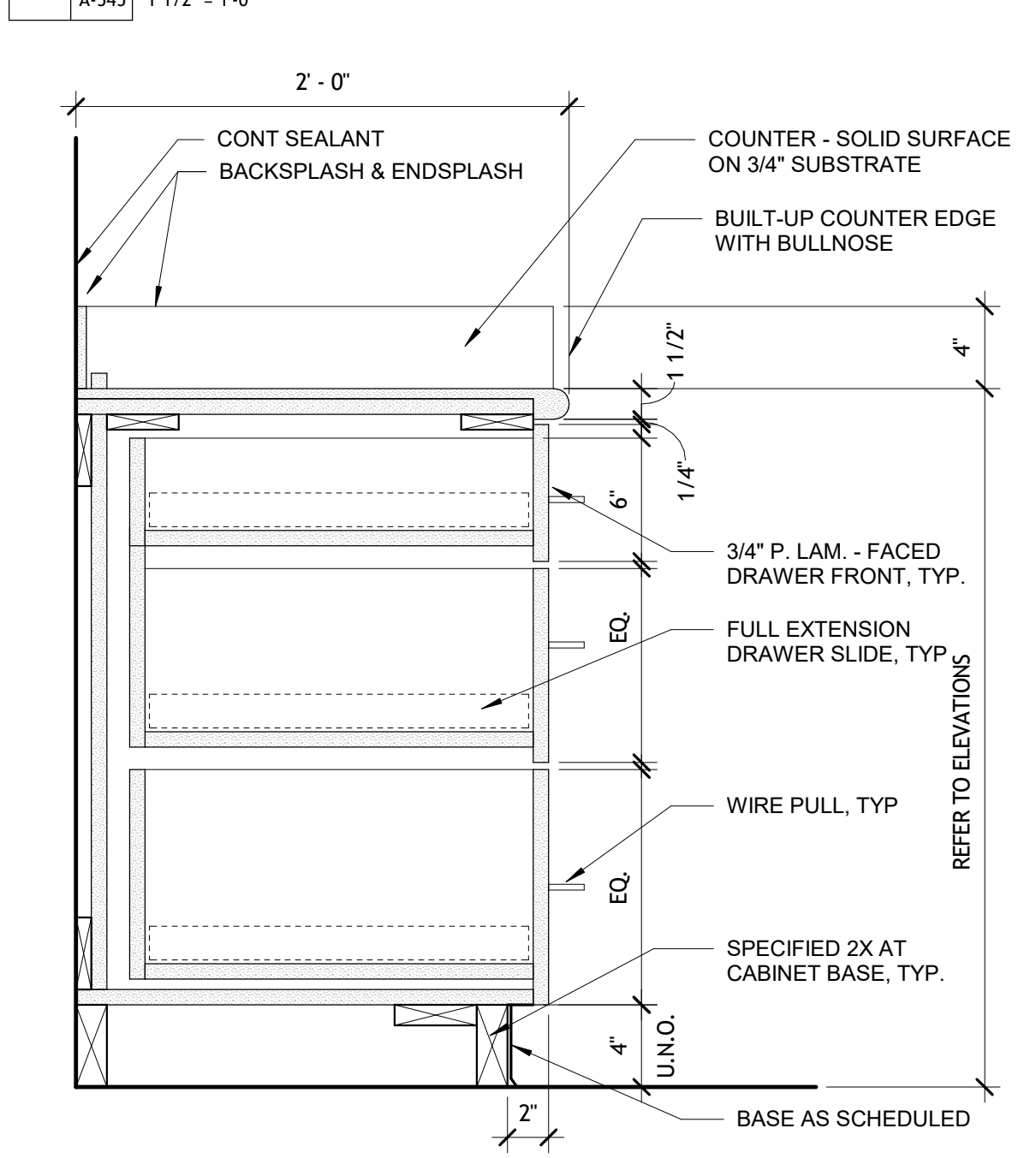
**9B** BSB BASE SHELVES  
A-545 | 1 1/2" x 1'-0"



**9D** DCB DRAWER CABINET  
A-545 | 1 1/2" x 1'-0"

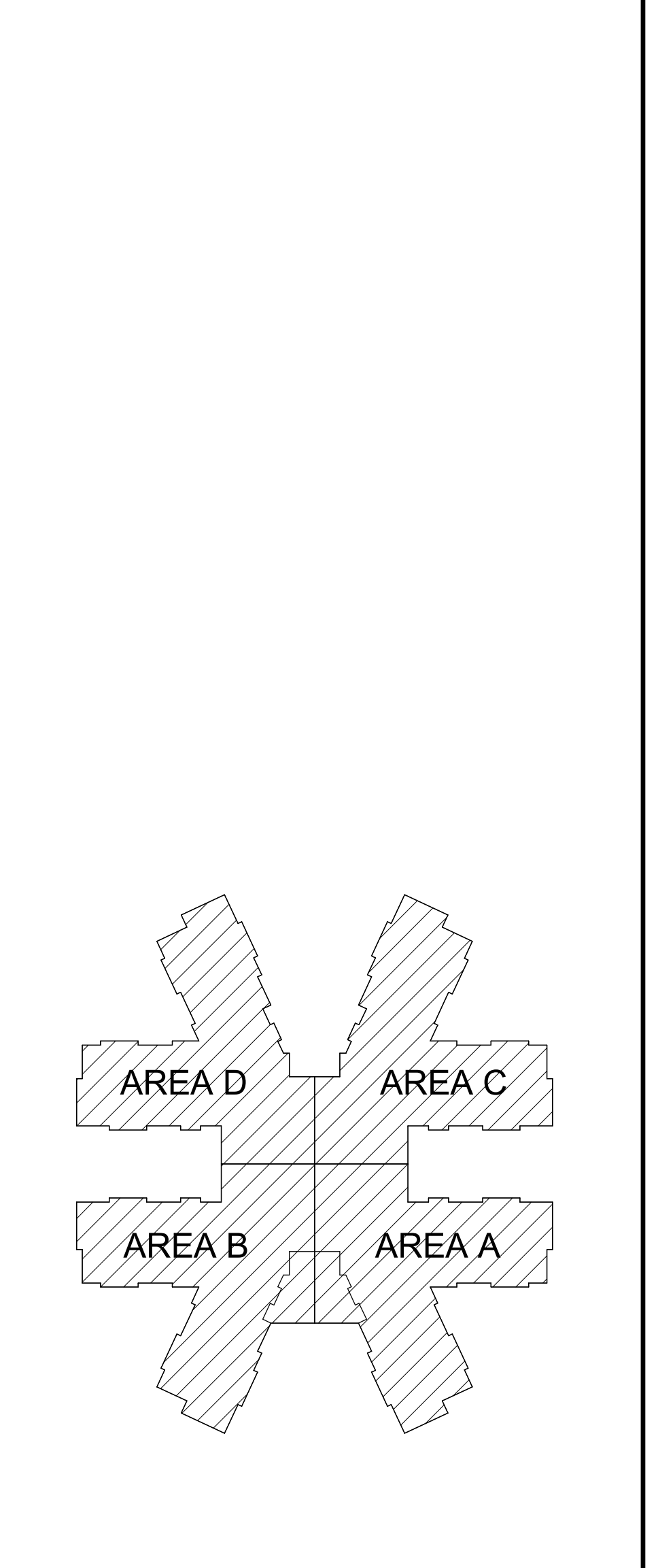


**9F** DCA DRAWER CABINET  
A-545 | 1 1/2" x 1'-0"

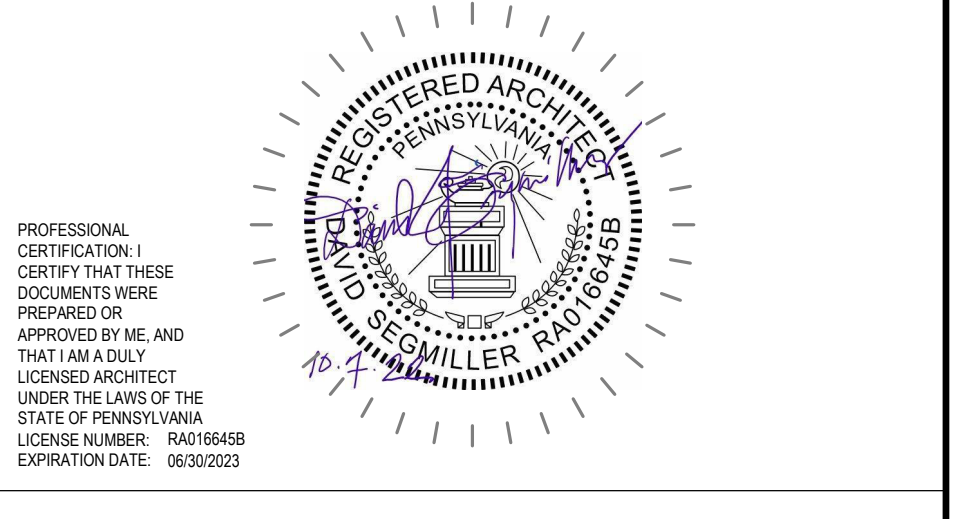


**9H** DBA DRAWER CABINET  
A-545 | 1 1/2" x 1'-0"

<b>ARCHITECT</b>	Hord Coplan Macht, Inc. 700 E. Pratt St, Suite 1200 Baltimore, MD 21202 p. 410.837.7311	Baltimore, MD 21202 f. 410.837.6530
<b>LANDSCAPE ARCHITECTURE</b>	Hord Coplan Macht, Inc. 700 E. Pratt St, Suite 1200 Baltimore, MD 21202 p. 410.837.7311	Baltimore, MD 21202 f. 410.837.6530
<b>INTERIOR DESIGN</b>	Hord Coplan Macht, Inc. 700 E. Pratt St, Suite 1200 Baltimore, MD 21202 p. 410.837.7311	Baltimore, MD 21202 f. 410.837.6530
<b>STRUCTURAL ENGINEER</b>	Hope Furrer Associates 700 East Beaver Ave, Suite 3 State College, PA 16801 p. 814.234.8191 x 1106	State College, PA 16801 f. 000.000.0000
<b>MECHANICAL &amp; ELECTRICAL ENGINEER</b>	BALA Consulting Engineers 443 South Gulph Rd King of Prussia, PA 19406 p. 610.674.9905	King of Prussia, PA 19406 f. 000.000.0000
<b>PLUMBING ENGINEER</b>	VETERAN DESIGN & CONSTRUCTION, Inc. 5523 Research Park Drive, Suite 110 Baltimore, MD 21228 p. 443.543.5081	Baltimore, MD 21228 f. 000.000.0000
<b>CIVIL ENGINEERS</b>	Keller Engineers, Inc. 420 Allegheny St. Hollidaysburg, PA 16648 p. 814.696.7430	Hollidaysburg, PA 16648 f. 000.000.0000



no.	date	revision
1	12.09.2022	ADDENDUM 5
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
700 E. Pratt St, Suite 1200  
Baltimore, MD 21202

**COMMONWEALTH OF PENNSYLVANIA**  
**DEPARTMENT OF GENERAL SERVICES**  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

**CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME**  
DUNCANSVILLE, BLAIR COUNTY, PA

**CASEWORK DETAILS**

**VERIFY SCALE**  
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING  
IF BAR IS NOT ONE (1) INCH LONG ADJUST SCALE ACCORDINGLY  
CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL

Drawn By	Date	Drawing No.
Author	10-07-2022	<b>A-545</b>
Checked By	Scale	As indicated
Checker	As indicated	

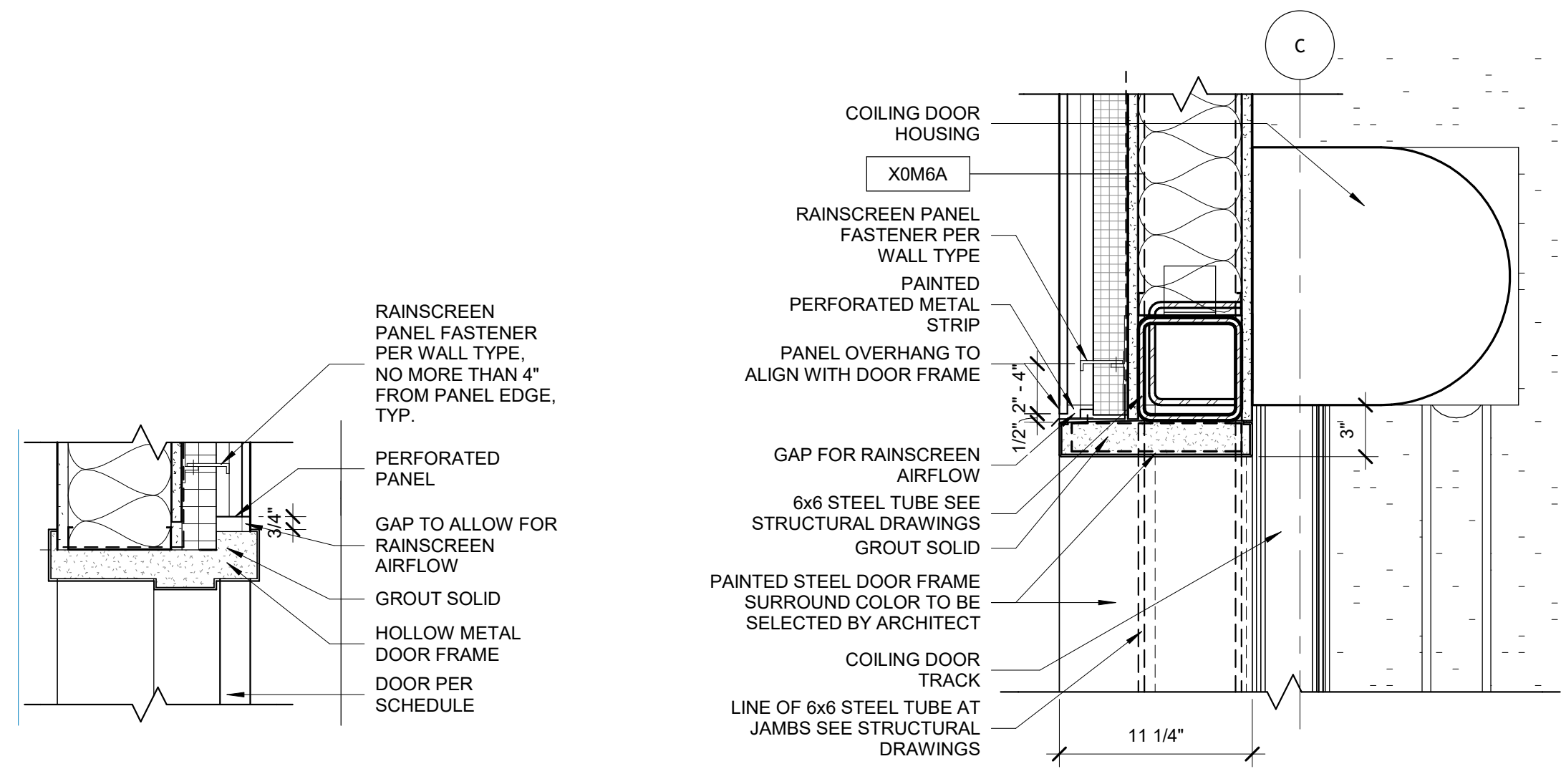
DOOR SCHEDULE - HOLLIDAYSBURG. Table with columns: MARK, ROOM NAME, WIDTH, HEIGHT, SINGLE/PAIR, TYPE, MATERIAL, THICKNESS, MATERIAL, PROFILE, TYPE, FIRE RATING, HW, COMMENTS. Includes rooms like STAIR-1, STAIR-2, STAIR-3, STAIR-4, STAIR-5, STAIR-6, STAIR-7, STAIR-8, VETERAN'S HALL, etc.

DOOR SCHEDULE - HOLLIDAYSBURG. Table with columns: MARK, ROOM NAME, WIDTH, HEIGHT, SINGLE/PAIR, TYPE, MATERIAL, THICKNESS, MATERIAL, PROFILE, TYPE, FIRE RATING, HW, COMMENTS. Includes rooms like IT IDF, W STAFF TOILET & SHOWER, TD OFFICE, RECREATIONAL THERAPY, DENTAL, DENTAL STORAGE, BOH HALL, etc.

DOOR SCHEDULE - HOLLIDAYSBURG. Table with columns: MARK, ROOM NAME, WIDTH, HEIGHT, SINGLE/PAIR, TYPE, MATERIAL, THICKNESS, MATERIAL, PROFILE, TYPE, FIRE RATING, HW, COMMENTS. Includes rooms like STOR., CORRIDOR, ELECT., STAIR-1, STAIR-2, STAIR-3, STAIR-4, STAIR-5, STAIR-6, STAIR-7, STAIR-8, etc.

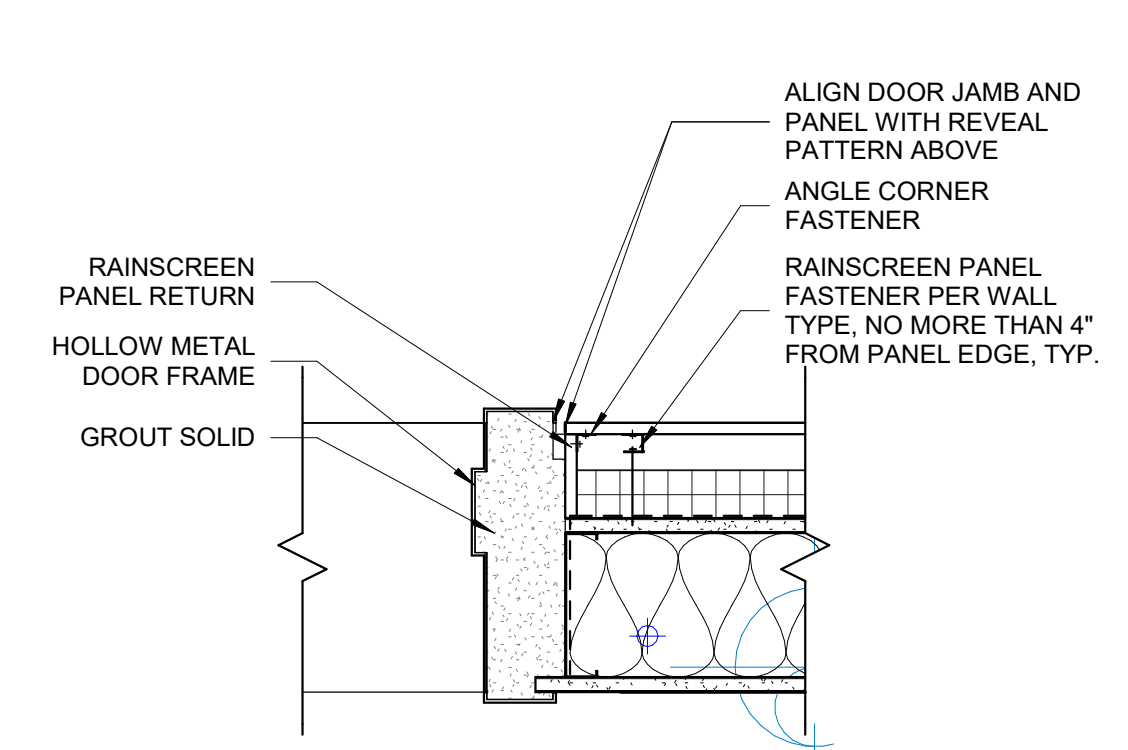
ARCHITECT: Hord Coplan Macht, Inc. LANDSCAPE ARCHITECTURE: Hord Coplan Macht, Inc. INTERIOR DESIGN: Hord Coplan Macht, Inc. STRUCTURAL ENGINEER: Hope Furrer Associates. MECHANICAL & ELECTRICAL ENGINEER: BALA Consulting Engineers. PLUMBING ENGINEER: VETERAN DESIGN & CONSTRUCTION, INC. CIVIL ENGINEERS: Keller Engineers, Inc. Includes a VERIFY SCALE section and a COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF GENERAL SERVICES stamp.

VERIFY SCALE. BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING. IF BAR IS NOT ONE (1) INCH LONG ADJUST SCALE ACCORDINGLY. CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL. Drawing No. A-600. Date: 10-07-2022. Author: [Name]. Checked by: [Name]. Scale: [Scale].

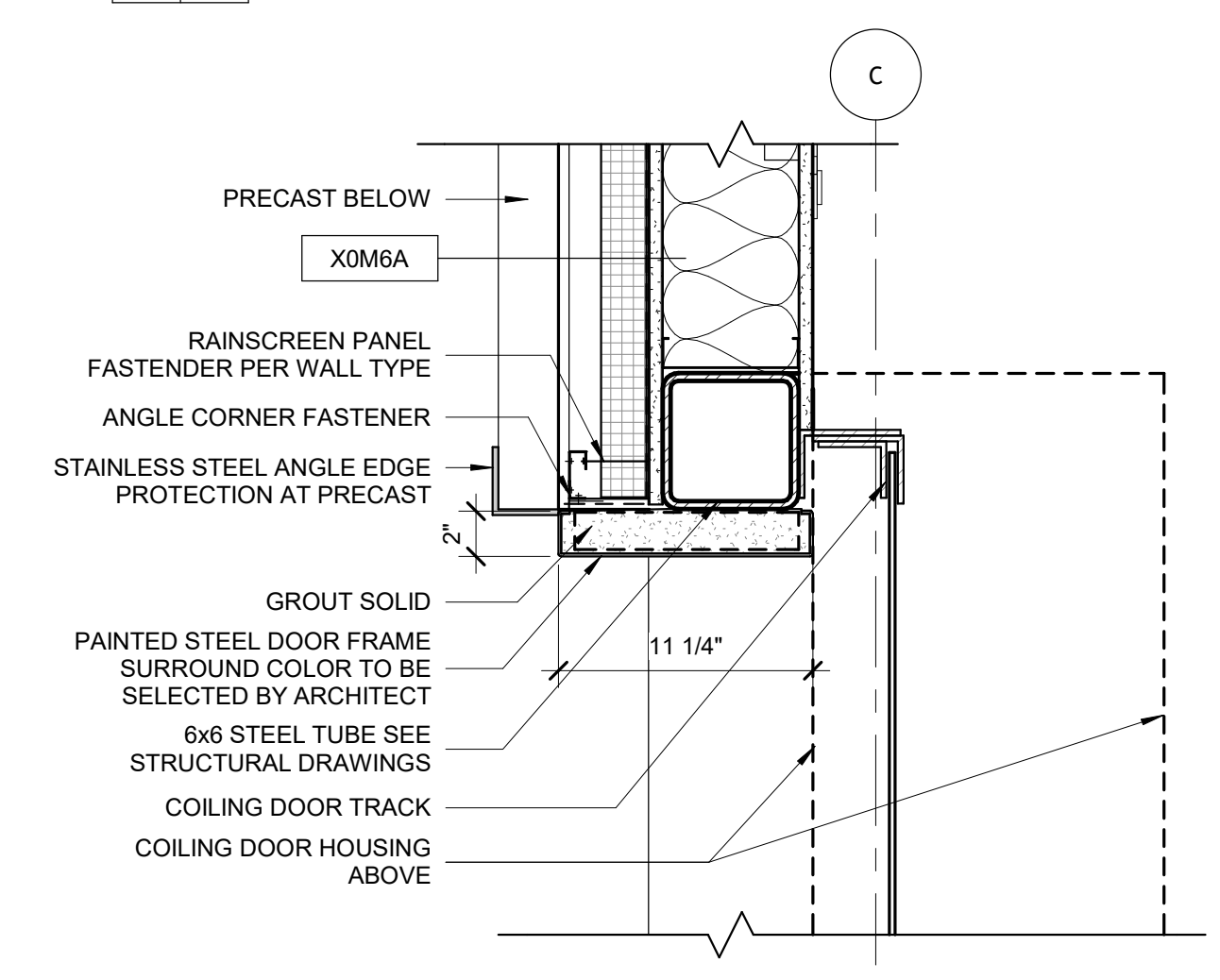


2F DETAIL @ COILING DOOR HEAD  
A-322 A-601 1 1/2" x 1'-0"

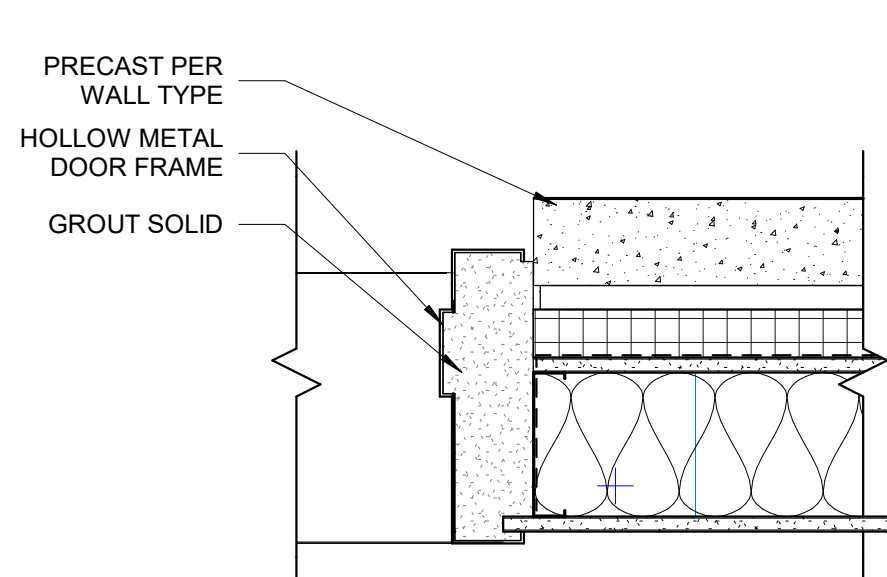
2D DOOR HEAD @ RAIN SCREEN  
A-111B A-601 1 1/2" x 1'-0"



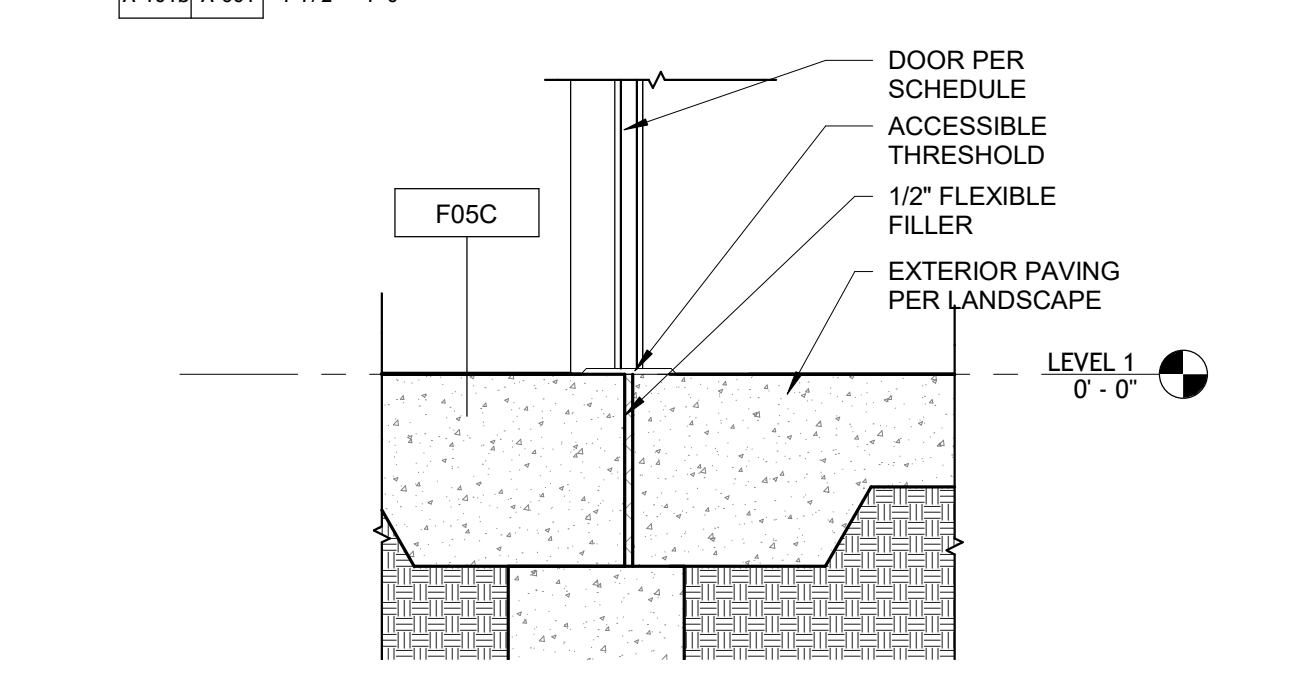
4D DOOR JAMB @ RAIN SCREEN  
A-601 1 1/2" x 1'-0"



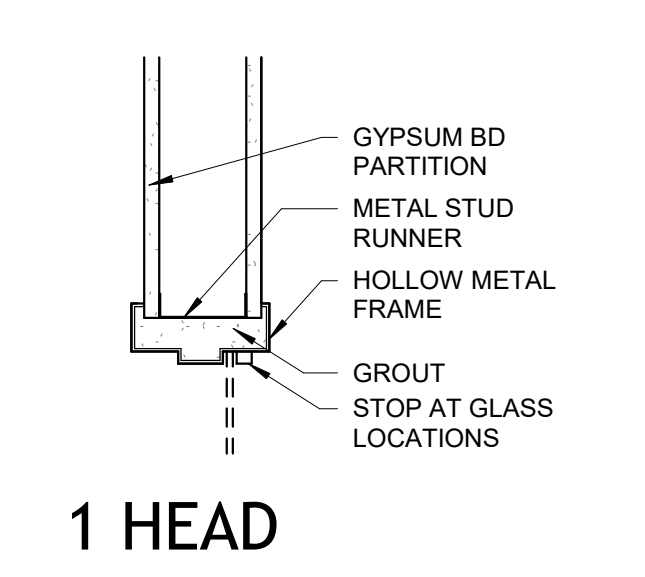
4F DETAIL AT COILING DOOR JAMB  
A-101B A-601 1 1/2" x 1'-0"



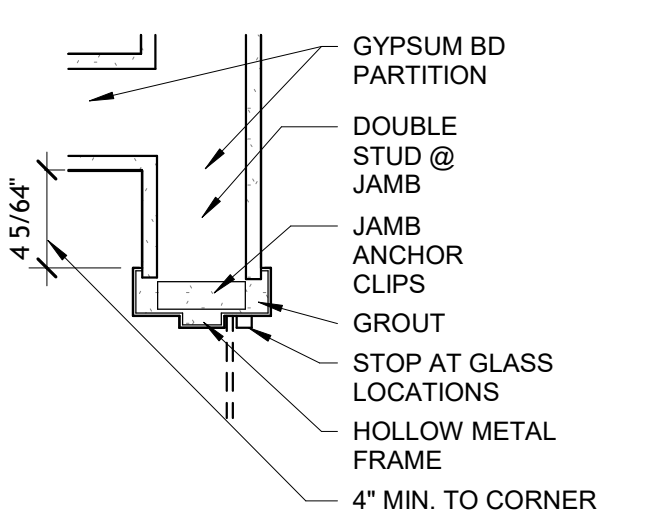
5D DOOR JAMB @ PRECAST  
A-101A A-601 1 1/2" x 1'-0"



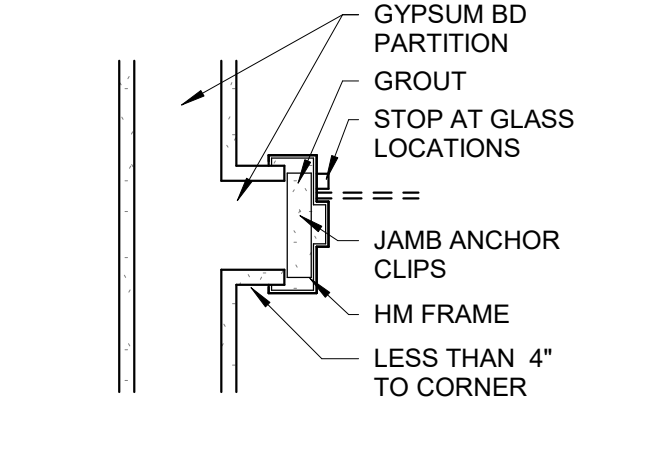
5F EXTERIOR DOOR TRANSITION  
A-312 A-601 1" x 1'-0"



1 HEAD



2 JAMB



3 JAMB

DOOR HEAD AND JAMB DETAILS

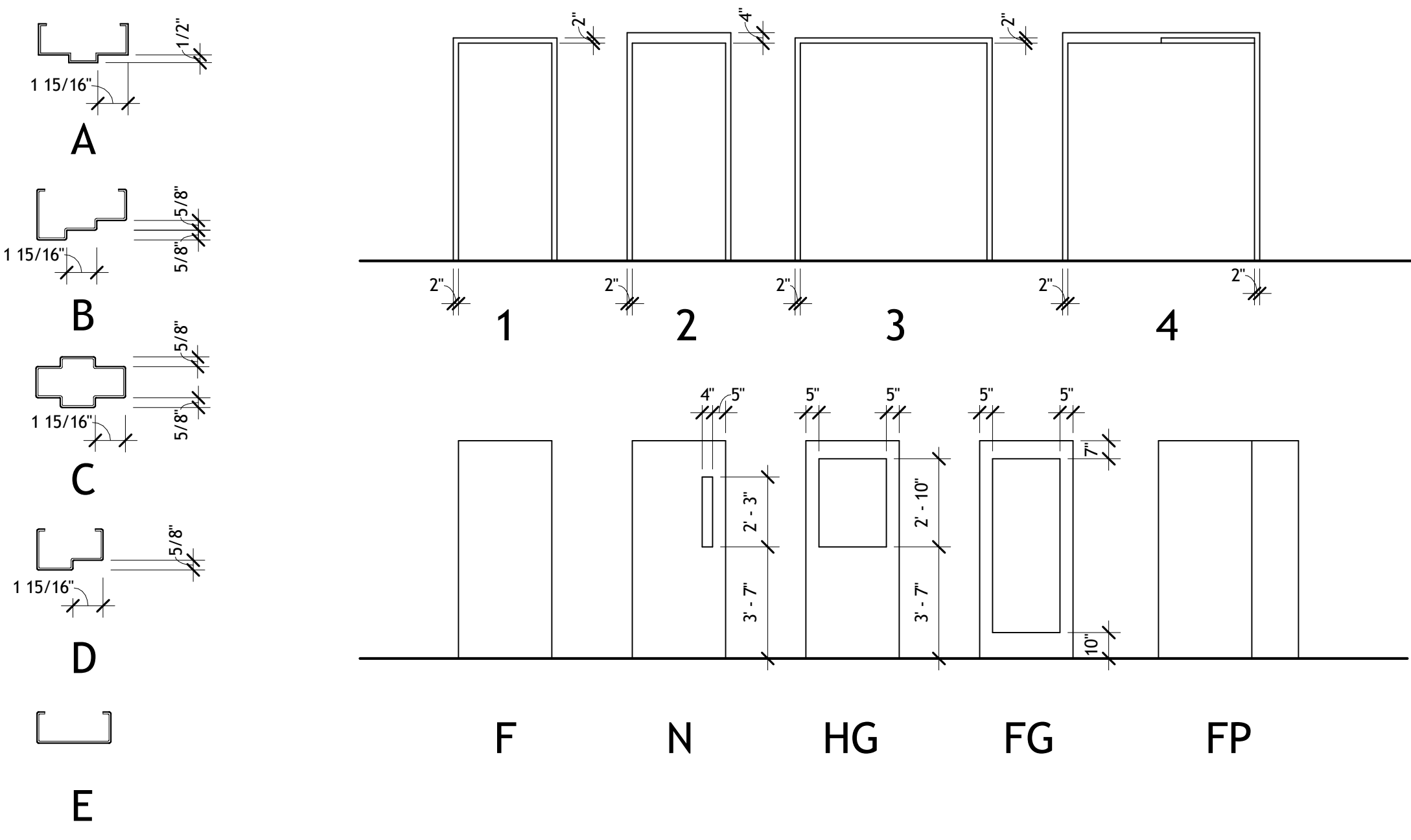
DOOR SCHEDULE - HOLLIDAYSBURG CONTINUED

MARK	ROOM NAME	WIDTH	HEIGHT	SINGLE/PAIR	DOOR			FRAME		FIRE RATING	HW	COMMENTS
					TYPE	MATERIAL	THICKNESS	MATERIAL	PROFILE			
D315	PRIVATE DINING	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	20 MIN.	14	Card Readers
D315A	PRIVATE DINING	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	26	
D316	FOOD PREP	4'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	20 MIN.	40	
D316A	DINING ROOM / RECREATION MULTIRUSE	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	26	
D316B	FOOD PREP	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	20 MIN.	36	
D322	MEDS	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	17	Card Readers
D323	PHY TD	3'-0"	7'-0"	S	CO	J	0'-1 3/4"	HM	E	-	26	Cased Opening - No Door
D324	NURSE STATION	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	58	
D326	LINEN UTILITY	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	22	
D329	BATHING ROOM	3'-8"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	30	
D333	CLEAN UTILITY	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D334	STORAGE	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	22	
D335	SOIL UTILITY	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D340	EXAM/PHY TD	3'-8"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	26	
D341	EQUIP	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D342	DINING ROOM / RECREATION MULTIRUSE	3'-6"	7'-6"	S	FG	WD	0'-1 3/4"	AL	A	20 MIN.	16	See Interior Storefront Schedule A-612
D345	HALL	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	41	
D346	VISITOR TLT	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	34	
D347	STAFF LOUNGE	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	27	
D347B	STAFF LOUNGE	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	33	
D350	STORAGE	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	45 MIN.	22	
D351	CLEAN UTILITY	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D352	J.C.	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D353	SOIL UTILITY	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D358	EQUIP STORAGE	3'-6"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	20	
D359	EXAM/PHY TD	3'-8"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	26	
D360	CORRIDOR	7'-8"	7'-0"	P	NL	WD	0'-1 3/4"	HM	B	20 MIN.	11	Card Reader with Power Operators
D362	STOR.	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	-	23	
D364	ELECT.	3'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	90 MIN.	41	Panic HW

DOOR SCHEDULE - UNIT DOORS

ROOM NAME	WIDTH	HEIGHT	SINGLE/PAIR	DOOR TYPE	MATERIAL	THICKNESS	MATERIAL	PROFILE	TYPE	FIRE RATING	HARDWARE	COMMENTS
BATHROOM	5'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	E	3	-	03	SLIDING DOOR
RESIDENT	4'-0"	7'-0"	S	F	WD	0'-1 3/4"	HM	A	1	-	01	
RESIDENT ISOLATION	5'-0"	7'-0"	P	FP	WD	0'-1 3/4"	HM	A	1	-	02	UNEVEN PAIR BARIATRIC ROOM

\* NOTE: SLIDING DOOR - PROVIDE HOLLOW METAL DOOR FRAME AT OPENING WITH SLIDING DOOR SIDE OF FRAME FLUSH WITH WALL AND INSIDE 1/2" LAP



FRAME PROFILES FRAME AND DOOR TYPES

(T1) 1:2 MAX. SLOPE CARPET CONC. OR VINYL TILE FLOORING RESILIENT REDUCER STRIP	(T4) 1/4" H, 5" W, ADA COMPLIANT ALUM. THRESHOLD, THERMALLY BROKEN AT EXT. DOORS	(T7) VINYL PLANK OR VCT CARPET METAL TRANSITION STRIP 1/4" MAX. LEVEL CHANGE
(T2) 1:2 MAX. SLOPE 1/2" H, 5" W, ADA COMPLIANT ALUM. THRESHOLD, THERMALLY BROKEN AT EXT. DOORS	(T5) CONCRETE RESILIENT REDUCER STRIP	(T8) 1/2" H, 5" W, ADA COMPLIANT ALUM. THRESHOLD, THERMALLY BROKEN AT EXT. DOORS
(T3) CERAMIC TILE VINYL PLANK METAL TRANSITION STRIP, 1/2" MAX. LEVEL CHANGE	(T6) CERAMIC TILE CARPET METAL TRANSITION STRIP, 1/4" MAX. LEVEL CHANGE	(T9) CARPET 0'-5" 1/4" H, 5" W, ADA COMPLIANT ALUM. THRESHOLD, THERMALLY BROKEN AT EXT. DOORS

THRESHOLD - TYPICAL DETAILS (SC03)

**ARCHITECT**  
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**LANDSCAPE ARCHITECTURE**  
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**INTERIOR DESIGN**  
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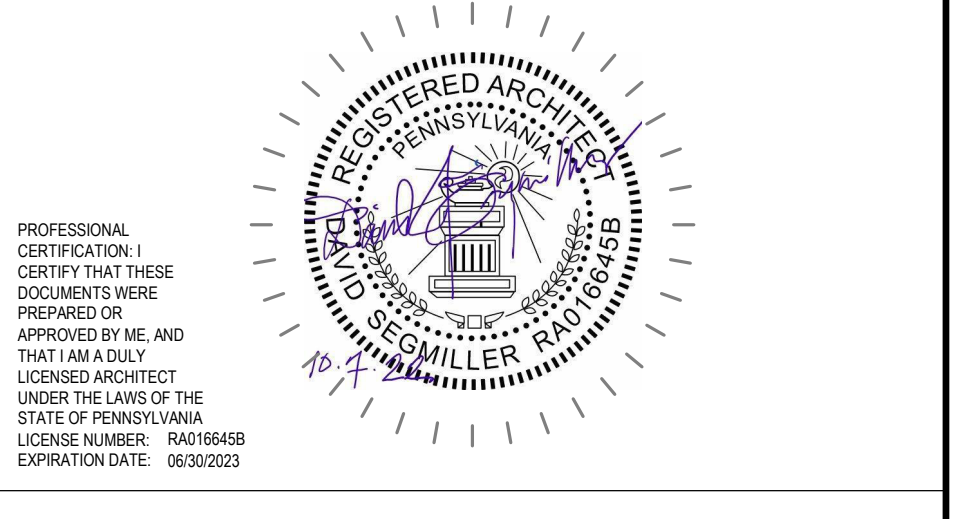
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**PLUMBING ENGINEER**  
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**CIVIL ENGINEERS**  
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no.	date	revision
2	12.13.2022	ADDENDUM 6

no.	date	revision
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
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Baltimore, MD 21202

COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number **D.G.S. C-0969-0017-001**

CONSTRUCTION OF NEW COMMUNITY LIVING CENTER, HOLLIDAYSBURG VETERANS' HOME  
DUNCANSVILLE, BLAIR COUNTY, PA

DOOR SCHEDULES & DETAILS

Drawn by Author Date 10-07-2022 Drawing No. **A-601**

Checked by Checker Scale As indicated

**VERIFY SCALE**  
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**LANDSCAPE ARCHITECTURE**  
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**STRUCTURAL ENGINEER**  
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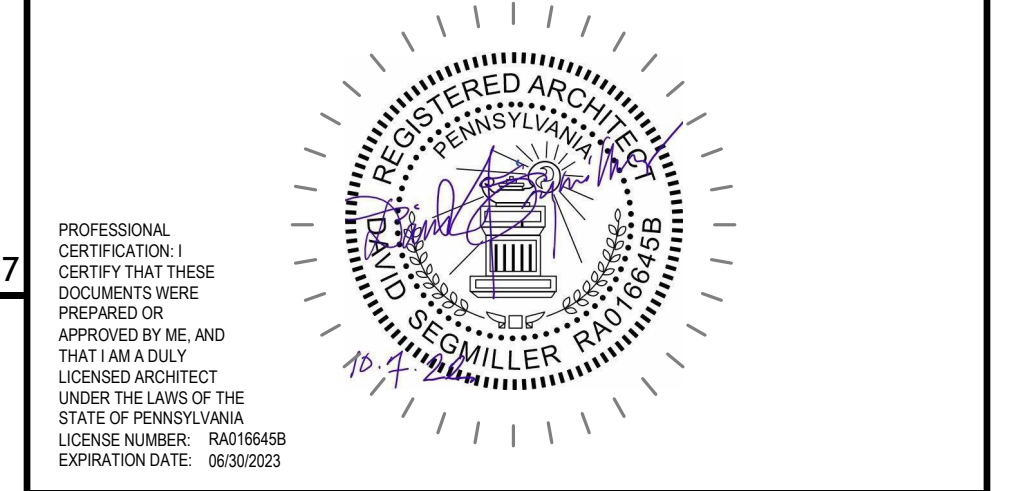
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no.	date	revision
1	12.09.2022	ADDENDUM 5
2	12.13.2022	ADDENDUM 6



**Hord Coplan Macht, Inc.**  
 700 E. Pratt St., Suite 1200  
 Baltimore, MD 21202

**COMMONWEALTH OF PENNSYLVANIA  
 DEPARTMENT OF GENERAL SERVICES**  
 HARRISBURG, PENNSYLVANIA

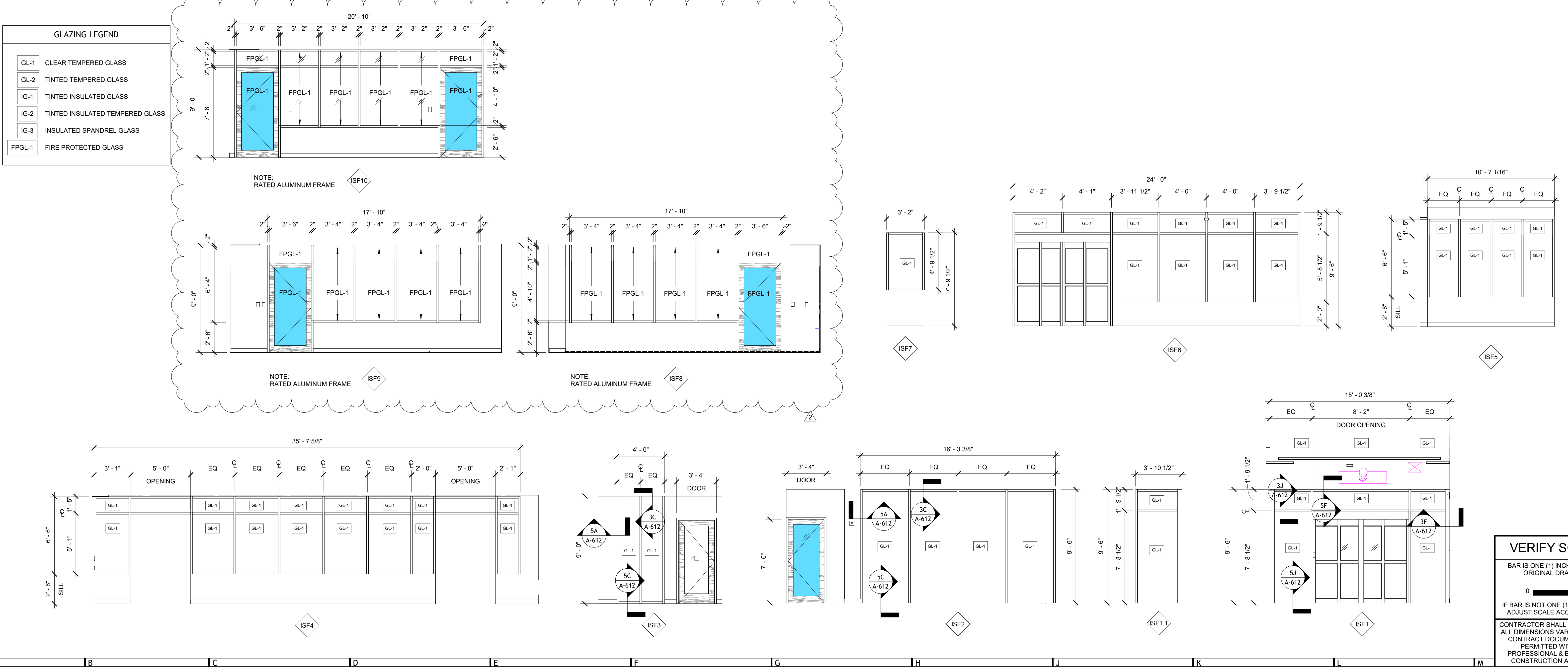
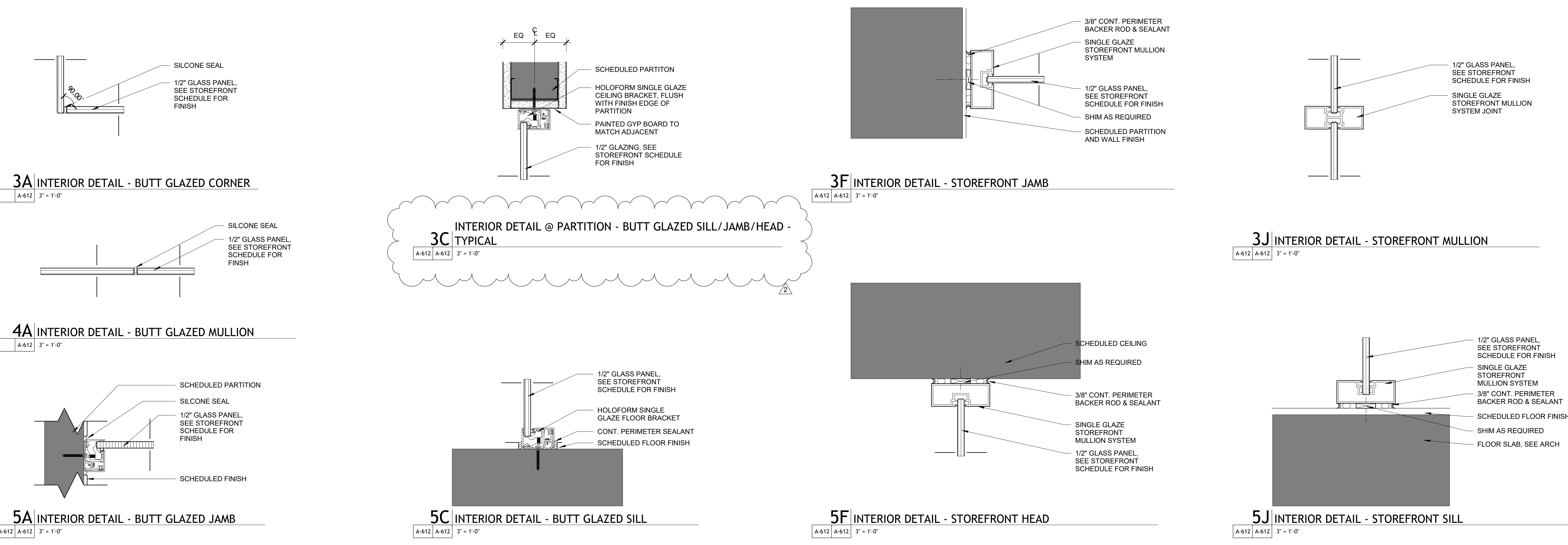
Project Number **D.G.S. C-0969-0017-001**

**CONSTRUCTION OF NEW COMMUNITY LIVING  
 CENTER, HOLLIDAYSBURG VETERANS' HOME**  
 DUNCANSVILLE, BLAIR COUNTY, PA

**INTERIOR STOREFRONT SCHEDULE AND DETAILS**

Drawn by	Date	Drawing No.
Author	10-07-2022	<b>A-612</b>
Checked by	Scale	
Checker	As indicated	

Contractor shall field verify all dimensions variance from contract documents not permitted without professional & Bureau of Construction Approval.



**VERIFY SCALE**  
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FINISH MATERIAL LEGEND

FLOOR	CODE	MATERIAL	MANUFACTURER	PRODUCT	COLOR	REMARKS
	CPT-1	CARPET TILE	MANNINGTON COMMERCIAL	COLLECTION: FRIXTION, STYLE: INERTIA, SIZE: 18" x 36"	KINETIC 11360	MONOLITHIC INSTALLATION
	LVT-1	LUXURY VINYL TILE	SHAW CONTRACT	BIO-BASED POLYURETHANE HETEROGENOUS PLANK, STYLE: IN TANDEM PLANK, STYLE NUMBER: 0896V, SIZE: 9.84" x 59.06"	RAFFIA 96710	STAGGER INSTALLATION
	LVT-2	LUXURY VINYL TILE	MOHAWK GROUP	ENHANCED RESILIENT TILE, COLLECTION: SAKIORI, STYLE: LINKED CR708, SIZE: 9.84" x 59.37"	RAFFIA 889	MONOLITHIC INSTALLATION
	LVT-3	LUXURY VINYL TILE	SHAW CONTRACT	BIO-BASED POLYURETHANE HETEROGENOUS PLANK, STYLE: IN TANDEM PLANK, STYLE NUMBER: 0896V, SIZE: 9.84" x 59.06"	LINDEN 96790	STAGGER INSTALLATION
	LVT-4	LUXURY VINYL TILE	MOHAWK GROUP	ENHANCED RESILIENT TILE, COLLECTION: SAKIORI, STYLE: LINKED CR708, SIZE: 9.84" x 59.37"	IMMENSUS 979	MONOLITHIC INSTALLATION
	PT-1	PORCELAIN TILE	STP TILE	SERIES: AMITY, FINISH: MATTE RECTIFIED, SIZE: 12"x24"	COLOR: GRAY	COORDINATE W/ MAPEI EPOXY GROUT, COLOR: TBD, INSTALL: 1/3 OFFSET
	RBRT-1	RUBBER STAIR TREAD	TARKEIT	ANGLE FIT RUBBER STAIR TREAD WITHOUT INTEGRATED RISER, TREAD TEXTURE: BAMBOO, PROFILE: SQUARE NOSE, GRIT TAPE COLOR: GREY	32 PEBBLE	
	RES-1	RESINOUS POURED FLOORING	STONHARD	STONSHIELD SLT, TEXTURE: MEDIUM	FLAGSTONE	
	RES-2	RESINOUS POURED FLOORING	SHERWIN WILLIAMS	GENERAL POLYMERS EPO-FLEX MER II, 90 MIL SYSTEM	PEWTER	
	RSF-1	RESILIENT SHEET FLOOR	MANNINGTON COMMERCIAL	COLLECTION: BLOOM, PATTERN: WILDFLOWER, SIZE: 3MM THICK, 6' WIDE ROLL	WALKABOUT B107	
	RSF-2	RESILIENT SHEET FLOOR	ECO SURFACES	VINYL FACED RUBBER BACKED SHEET FLOOR, COLLECTION: ECORE, STYLE: COSMOS RX	HALO 9841	
	SVT-1	SOLID VINYL TILE	PATCRAFT	COLLECTION: ADMIX 12X12, SIZE: 12"x12", THICKNESS: 3.2mm	SUNDIAL 00130	MONOLITHIC INSTALLATION
BASE	B-1	RUBBER WALL BASE	TARKEIT	TRADITIONAL DURACOVE THERMOPLASTIC RUBBER 1/8" THICK, 4"H WALL BASE	PEBBLE 32	
	B-2	RUBBER WALL BASE	TARKEIT	MILLWORK WALL FINISHING SYSTEM, PROFILE: REVEAL MW-32-F, 4"H	PEBBLE 32	
	B-3	TILE WALL BASE	MATCH SCHEDULED FLOORING	MATCH SCHEDULED FLOORING	MATCH SCHEDULED FLOORING	6" HIGH TILE BASE, SEE BASE DETAIL SHEET A533
	IB-1	INTEGRAL BASE	TO MATCH ADJACENT POURED FLOORING	6" H TO MATCH ADJACENT POURED FLOORING	COLOR TO MATCH ADJACENT FLOORING	SEE DETAIL SHEET A533
	IB-2	INTEGRAL BASE	TO MATCH ADJACENT SHEET FLOORING	6" H TO MATCH ADJACENT SHEET FLOORING	COLOR TO MATCH ADJACENT FLOORING	SEE DETAIL SHEET A533
WALLS	CT-1	CERAMIC TILE - WALL	CONESTOGA TILE	SERIES: PAMARVA SOHO, SIZE: 4" X 16"	COLOR: CANVAS WHITE, GLOSSY	COORDINATE W/ MAPEI GROUT, INSTALLATION: STACKED
	CT-2	CERAMIC TILE - WALL	CONESTOGA TILE	SERIES: PAMARVA SOHO, SCALLOP MOSAIC	COLOR: LOFT GREY, GLOSSY	COORDINATE W/ MAPEI GROUT, INSTALLATION: SEE ELEVATIONS
	CT-3	CERAMIC TILE - WALL	PORCELANOSA	SERIES: MOSAIC, WEFT GREY, 100213725	COLOR: PM WEFT GREY	COORDINATE W/ MAPEI GROUT, INSTALLATION: SEE ELEVATIONS
	EP-1	PAINT, EPOXY	SHERWIN WILLIAMS			
	P-1	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	CREAMY SW 7012	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-2	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	AMAZING GRAY SW 7044	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-3	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	RYEGRESS SW 6423	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-4	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	DISTANCE SW 6243	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-5	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	TRADEWIND SW 6218	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-6	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	CARIBBEAN CORAL SW 2854	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-7	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	FESTOON AQUA SW 0019	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-8	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	PEACOCK PLUM SW 0020	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-9	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	HARVESTER SW 6373	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	P-10	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, SATIN	BREEZY SW 7616	COORDINATE WITH PROMAR 200 ZERO VOC PRIMER
	PVT-1	PORCELAIN VENEER TILE	LAMINAM	SERIES: SETA, FINISH: NATURAL, SIZE: 39.4" x 118.1"	GRIS	
	WD-1	WOOD GRILLE WALL PANEL	ARMSTRONG	SERIES: WOODWORKS GRILLE 7092, BACKER ONLY		CUSTOM COLOR: STAINED TO MATCH PL-1
CEILING	ACP-1	ACOUSTIC CEILING PANEL	ARMSTRONG	CIRRUS HIGH NRC SQUARE LAY-IN #563, 24" X 24" X 7/8" MEDIUM TEXTURE	WHITE	COORDINATE W/ ARMSTRONG PRELUDE 15/16" GRID
	ACP-2	ACOUSTIC CEILING PANEL	ARMSTRONG	ULTMA SQUARE LAY-IN, 24" X 24" X 3/4" FINE TEXTURE	WHITE	COORDINATE W/ ARMSTRONG PRELUDE 15/16" GRID
	ACP-3	ACOUSTIC CEILING PANEL	ARMSTRONG	OPTIMA SQUARE REGULAR #1427, 24" X 24" X 1" FINE TEXTURE	WHITE	COORDINATE W/ ARMSTRONG SUPRAFINE XL 9/16" GRID
	ACP-4	ACOUSTIC CEILING PANEL	ARMSTRONG	ULTMA BEVELED REGULAR #1427, 6" X 60" X 3/4", FINE TEXTURE	WHITE	COORDINATE W/ ARMSTRONG SUPRAFINE XL 9/16" GRID
	ACT-5	ACOUSTIC CEILING PANEL	ARMSTRONG	SERIES: CALLA HEALTH ZONE SQUARE LAY-IN, 24"x24"x1"	WHITE	COORDINATE W/ ARMSTRONG PRELUDE PLUS XL 15/16" GRID
	GYP-1	CEILING - PAINT	SHERWIN WILLIAMS	FLAT FINISH	EXTRA WHITE SW 7006	
	GYP-2	CEILING - PAINT	SHERWIN WILLIAMS	FLAT FINISH	AMAZING GRAY SW 7044	SEE RCP FOR LOCATIONS
	GYP-3	CEILING - PAINT	SHERWIN WILLIAMS	FLAT FINISH	RYEGRESS SW 6423	SEE RCP FOR LOCATIONS
	GYP-4	CEILING - PAINT	SHERWIN WILLIAMS	FLAT FINISH	DISTANCE SW 6243	SEE RCP FOR LOCATIONS
	WDC-1	WOOD CEILING	ARMSTRONG	SERIES: WOODWORKS LINEAR VENEER, STANDARD 6" WIDE BY 8'-0" LONG PLANKS WITH FELT REVEAL FILLER STRIPS	CUSTOM COLOR, STAINED TO MATCH PL-1	PROVIDE ACOUSTIC BACKER, COORDINATE WITH 15/16" GRID
DOOR FRAME	P-2	PAINT	SHERWIN WILLIAMS	SUPER PAINT - AIR PURIFYING, INTERIOR ACRYLIC, ZERO VOC, GLOSS	AMAZING GRAY SW 7044	
DOOR FINISH	DF-1	DOOR FINISH	EGGERS	VENEER: WHITE MAPLE, PLAIN SLICED	STAIN: TO MATCH PL-1	
MILLWORK	PL-1	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	FAWN CYPRESS #208-60, MATTE FINISH	
	PL-2	PLASTIC LAMINATE	WILSONART	HIGH PRESSURE LAMINATE	WALNUT HEIGHTS 7965K-12, SOFT GRAIN FINISH	
	SSM-1	SOLID SURFACE MATERIAL	DUPONT WORLD INDUSTRIES	CORIAN SOLID SURFACE	JASMINE	
	SSM-2	SOLID SURFACE MATERIAL	DUPONT WORLD INDUSTRIES	CORIAN SOLID SURFACE	NEUTRAL AGGREGATE	
MISC	CC-1	CUBICLE CURTAIN	CARNEGIE	PASTURES 4832, 72" IN WIDE	COLOR: 46	PROVIDE 18" FROM FLOOR TO BOTTOM OF CURTAIN
	CG-1	CORNER GUARD	CONSTRUCTION SPECIALTIES GROUP	SERIES: SSM WITH ALUMINUM RETAINER, 2" WING	TO MATCH P-1	BEGIN AT TOP OF RUBBER BASE, END AT 72"
	CG-2	CORNER GUARD	CONSTRUCTION SPECIALTIES GROUP	CO-8 STAINLESS STEEL, 90 DEGREE ANGLE, 3" LEG, SURFACE ADHERED	STAINLESS 304 WITH SATIN #4 FINISH	BEGIN AT TOP OF RUBBER BASE, END AT 72", PROVIDE WALL END GUARD CONDITION AT END WALLS
	CG-3	CORNER GUARD	CONSTRUCTION SPECIALTIES GROUP	CO-8M STAINLESS STEEL, ODD DEGREE ANGLE, SURFACE ADHERED	STAINLESS 304 WITH SATIN #4 FINISH	BEGIN AT TOP OF RUBBER BASE, END AT 72", COORDINATE ANGLE WITH FLOOR PLAN WHERE INDICATED
	CG-4	CORNER GUARD	CONSTRUCTION SPECIALTIES GROUP	SERIES: 3M 20M, ODD ANGLE WITH ALUMINUM RETAINER, 3" WING	TO MATCH P-1	BEGIN AT TOP OF RUBBER BASE, END AT 72", COORDINATE ANGLE WITH FLOOR PLAN WHERE INDICATED
	DWF-1	DECORATIVE WINDOW FILM	SOLYX	FROSTED POLYESTER FILM, FADE GRADIENT FROM CLEAR TO WHITE	CUSTOM FROSTED PATTERN, COORDINATE W/ ARCHITECT	PROVIDE ON GLASS AT NURSE'S STATIONS, TYP. COORD. WITH OWNER
	GA-1	GREENWALL ACCENT	GREENMOOD	GREENWALLS: REINDEER MOSS (LICHEN)	MEDIUM 70	MATERIAL TO FIT CUSTOM WALL APPLICATION; SEE PLANS FOR LOCATIONS
	HR-1	HANDBRAIL	CONSTRUCTION SPECIALTIES GROUP	HR-6C STAINLESS STEEL HANDBRAIL	STAINLESS	INSTALL AT 34" AFF WHERE INDICATED ON FINISH PLANS
	RS-1	ROLLER SHADE	PHIFER	SHEER WEAVE 4400 SERIES: 3% OPENNESS	COLOR: ALABASTER	UN O. IN FINISH SCHEDULE, PROVIDE AT ALL EXTERIOR WINDOWS
	RS-2	ROLLER SHADE	PHIFER	INFINITY2, 1% OPENNESS ROOM DARKENING SHADES	COLOR: P61 COTTON	COORDINATE WITH DOUBLE ROLLER SHADE AND RS-1 WHERE INDICATED IN FINISH SCHEDULE
	WC-1	DIGITAL PRINT WALLCOVERING	CONSTRUCTION SPECIALTIES GROUP	ACROVYN BY DESIGN DIGITAL PRINTED RIGID SHEET	CUSTOM GRAPHIC TBD	ALLOW FOR ONE ROYALTY-FREE PURCHASED IMAGE PER INSTANCE
	WC-2	DIGITAL PRINT WALLCOVERING	CONSTRUCTION SPECIALTIES GROUP	ACROVYN BY DESIGN DIGITAL PRINTED RIGID SHEET	CUSTOM GRAPHIC TBD	ALLOW FOR ONE ROYALTY-FREE PURCHASED IMAGE PER INSTANCE
	WC-3	DIGITAL PRINT WALLCOVERING	CONSTRUCTION SPECIALTIES GROUP	ACROVYN BY DESIGN DIGITAL PRINTED RIGID SHEET	CUSTOM GRAPHIC TBD	ALLOW FOR ONE ROYALTY-FREE PURCHASED IMAGE PER INSTANCE
	WC-4	DIGITAL PRINT WALLCOVERING	CONSTRUCTION SPECIALTIES GROUP	ACROVYN BY DESIGN DIGITAL PRINTED RIGID SHEET	CUSTOM GRAPHIC TBD	ALLOW FOR ONE ROYALTY-FREE PURCHASED IMAGE PER INSTANCE
	WP-1	WALL PROTECTION - RIGID SHEET	CONSTRUCTION SPECIALTIES GROUP	ACROVYN RIGID SHEET, THICKNESS: .040	TO MATCH P-1	NO TRIM PIECES, CAULK COLOR TO MATCH WP-1; INSTALL UP TO 3'-2" AFF

ROOM FINISH GENERAL NOTES

- A. REFER TO FINISH LEGEND AND RESPECTIVE SPECIFICATION SECTIONS FOR DETAILED INFORMATION ON SELECTED FINISH MATERIALS.
- B. REFER TO WALL FINISH PLANS FOR EXTENT AND LOCATIONS OF PAINT COLORS, WHERE MULTIPLE COLORS ARE INDICATED.
- C. REFER TO FLOOR FINISH PLANS FOR EXTENT AND LOCATION OF FLOORING TYPES, WHERE MULTIPLE TYPES ARE INDICATED.
- D. ALL HOLLOW METAL FRAMES AND HOLLOW METAL DOORS, WHERE SCHEDULED, TO BE PAINTED P-2 IN A SEMI-GLOSS FINISH, UNLESS OTHERWISE NOTED.
- E. PROVIDE COVE BASE WHERE RESILIENT FLOORING (LVT, SVT) IS SPECIFIED AND STRAIGHT BASE WHERE CARPET (CPT) IS SPECIFIED.
- F. ALL RESILIENT SHEET FLOORING SHALL HAVE HEAT WELDED SEAMS. MATCH WELD ROD TO SHEET VINYL COLOR, UNLESS OTHERWISE NOTED.
- G. WALLS TO RECEIVE EGGSHELL FINISH, UNLESS OTHERWISE NOTED.
- H. ALL CEILING SOFFITS TO RECEIVE FLAT FINISH PAINT.

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no.	date	revision



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COMMONWEALTH OF PENNSYLVANIA  
DEPARTMENT OF GENERAL SERVICES  
HARRISBURG, PENNSYLVANIA

Project Number: **D.G.S. C-0969-0017-001**

**VERIFY SCALE**  
BAR IS ONE (1) INCH LONG ON ORIGINAL DRAWING  
0 1  
IF BAR IS NOT ONE (1) INCH LONG ADJUST SCALE ACCORDINGLY

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT PROFESSIONAL & BUREAU OF CONSTRUCTION APPROVAL

Drawn by: 10-07-2022  
Checked by: Scale  
Author: Date: 10-07-2022  
Checker: Scale: 1 1/2" = 1'-0"

**A-620**