



Addendum No. 2

Addition And Renovations To The McCarthy Teszler School

McMillan Pazdan Smith Project No. 020063.00

May 12, 2021

The following clarifications, amendments, additions, deletions, revisions, and/or modifications are hereby made a part of the Contract Documents, and change the original documents only in the manner and to the extent stated below:

- Item No. 1: **Project Manual - Section 00 00 02 Table of Contents:**
Delete the previously issued section 00 00 02 in its entirety and include the attached section 00 00 02 into the contract documents.
- Item No. 2: **Project Manual - Section 00 00 06 Proposal:**
Delete the previously issued section 00 00 06 in its entirety and include the attached section 00 00 06 into the contract documents.
- Item No. 3: **Project Manual - Section 01 21 00 Allowances:**
Delete the previously issued section 01 21 00 in its entirety and include the attached section 01 21 00 into the contract documents.
- Item No. 4: **Project Manual - Section 01 23 00 Alternates:**
Delete the previously issued section 01 23 00 in its entirety and include the attached section 01 23 00 into the contract documents.
- Item No. 5: **Project Manual - Section 07 53 05 Thermoplastic Sheet Roofing System:**
Delete the previously issued Section 07 53 05 in its entirety.
- Item No. 6: **Project Manual - Section 08 41 13 Aluminum Framed Entrances and Storefronts:**
Part 2.4.A Framing members shall be 2"x6" in lieu of the size specified.
- Item No. 7: **Project Manual - Section 08 42 29 Automatic Sliding Doors:**
Include the attached Section 08 42 29 into the contract documents.
- Item No. 8: **Project Manual - Section 08 51 11 Aluminum Windows:**
Delete the previously issued section 08 51 11 in its entirety.
- Item No. 9: **Project Manual - Section 08 80 00 Glazing:**
Delete the previously issued section 08 80 00 in its entirety and include the attached section 08 80 00 into the contract documents
- Item No. 10: **Project Manual - Section 09 30 13 Ceramic Tiling:**
Part 2.6 Grouting Materials: Delete 2.6.C Water Cleanable Epoxy Grout in its entirety.
- Item No. 11: **Project Manual - Section 09 65 18 Resilient Base and Accessories:**
Part 2.2.B Prefomed Corners: Delete 2.2.B in its entirety

- Item No. 12: **Project Manual - Section 09 66 60 Commercial Kitchen Flooring:**
Delete the previously issued section 09 66 60 in its entirety and include the attached section 09 66 60 into the contract documents
- Item No. 13: **Project Manual - Section 10 21 23 Curtain Cubicles:**
Include the attached Section 10 21 23 into the contract documents.
- Item No. 14: **Project Manual - Section 27 51 23 Intercommunication and Program Systems:**
Delete Section 27 51 23 from the Table of Contents. This Section is not included in the project manual.
- Item No. 15: **General Drawings:**
Delete the following previously issued General Drawings in their entirety, and include the attached General Drawings into the contract documents:
- G010 – F3 FORM
 - G110 – OVERALL LIFE SAFETY PLAN
 - G112 – TEMPORARY EGRESS PLAN DURING CONSTRUCTION
 - G113 – LIFE SAFETY DETAILS
- Item No. 16: **Civil Drawings CV2.1 – Site Plan:**
The new perimeter fencing shall be 6'-0" black vinyl coated chain link fencing.
- Item No. 17: **Civil Drawings:**
Delete the following previously issued Civil Drawings in their entirety, and include the attached Civil Drawings into the contract documents:
- CV1.1 – EXISTING CONDITIONS
 - CV1.2 – SIRE PREPARATION PLAN
 - CV1.3 – SITE DEMOLITION PLAN
 - CV2.1 – SITE PLAN
 - CV2.2—SITE UTILITIES
 - CV3.1 – GRADING PLAN
 - CV4.2 – SITE DETAILS
- Item No. 18: **Architectural Drawings - General:**
See roofing drawings for mounting of guards at roof access hatches.
- Item No. 19: **Architectural Drawings A110 – Floor Plan Area A:**
The hollow metal window in Nurse 835 shall be HM2 with fire rated glass.
- Item No. 20: **Architectural Drawings A111 – Floor Plan Area A Continued:**
Include a 4x8 tack board over bookshelves on the east wall per elevation C3A/A701.
- Item No. 21: **Architectural Drawings:**
Delete the following previously issued Architectural Drawings in their entirety, and include the attached Architectural Drawings into the contract documents:
- A010 – ARCHITECTURAL SITE PLAN
 - A011 – ARCHITECTURAL SITE PLAN & DETAILS
 - A020 – CANOPY PLANS
 - A043 – EXIST. BUILDING DEMOLITION PLAN - MECH. PLATFORM
 - A100 – OVERALL FLOOR PLAN

- A110 – FLOOR PLAN – AREA ‘A’
- A111 – FLOOR PLAN – AREA ‘A’ CONTINUED
- A120 – MECHANICAL PLATFORM PLAN
- A130 – ROOF PLAN
- A210 – REFLECTED CEILING PLAN – AREA ‘A’
- A211 – REFLECTED CEILING PLAN – AREA ‘A’ CONTINUED AND EXISTING AREA ‘D-2’
- A300 – BUILDING ELEVATIONS
- A301 – BUILDING ELEVATIONS
- A330 – BUILDING SECTIONS
- A331 – BUILDING SECTIONS
- A340 – WALL SECTIONS
- A346 – WALL SECTIONS
- A348 – WALL SECTIONS
- A349 – WALL SECTIONS
- A420 – ENLARGED TOILET PLAN
- A601 – ENLARGED DETAILS
- A604 – ENLARGED DETAILS
- A700 – INTERIOR ELEVATIONS
- A703 – INTERIOR ELEVATIONS
- A800 – DOOR SCHEDULE
- A820 – WINDOW SCHEDULE

Item No. 22: **Roofing Drawings:**

Delete the following previously issued Roofing Drawings in their entirety, and include the attached Roofing Drawings into the contract documents:

- R100 – ROOF PLAN
- R200 – DETAILS
- R201 – DETAILS

Item No. 23: **Structural Drawings:**

Delete the following previously issued Structural Drawings in their entirety, and include the attached Structural Drawings into the contract documents:

- S110 – FOUNDATION PLAN – AREA ‘A’
- S111 – FOUNDATION PLAN – AREA ‘A’ CONTINUED
- S210 – MECHANICAL PLATFORM PLAN – AREA ‘A’
- S211 – MECHANICAL PLATFORM PLAN – AREA ‘A’ CONTINUED
- S310 – ROOF FRAMING PLAN – AREA ‘A’
- S311 – ROOF FRAMING PLAN – AREA ‘A’ CONTINUED
- S410 – FOUNDATION SECTIONS
- S512 – ROOF FRAMING SECTIONS
- S517 – ROOF FRAMING SECTIONS

Item No. 24: **Plumbing Drawings:**

Delete the following previously issued Plumbing Drawings in their entirety, and include the attached Plumbing Drawings into the contract documents:

- P100 – OVERALL PLUMBING PLAN
- P101 – AREA ‘A’ PLUMBING FLOOR PLAN
- P102 – AREA ‘A’ CONTINUED PLUMBING FLOOR PLAN
- P200 – FOOD PREP PLUMBING PLAN

Item No. 25: **Mechanical Drawings:**

Delete the following previously issued Mechanical Drawings in their entirety, and include the attached Mechanical Drawings into the contract documents:

- M101 – AREA 'A' HVAC FLOOR PLAN
- M102 – AREA 'A' CONTINUED HVAC FLOOR PLAN
- M201 – AREA 'A' HVAC PIPING PLAN
- M202 – AREA 'A' CONTINUED HVAC PIPING PLAN
- M301 – EXISTING BUILDING HVAC PLAN
- M400 – HVAC SCHEDULES
- M401 – HVAC SCHEDULES
- M500 – HVAC DETAILS
- M501 – HVAC DETAILS

Item No. 26: **Electrical Drawings:**

Delete the following previously issued Electrical Drawings in their entirety, and include the attached Electrical Drawings into the contract documents:

- E001 – GENERAL NOTES, LEGEND, FIXTURE SCHEDULE
- E003 – PANEL SCHEDULES (480V)
- E004 – PANEL SCHEDULES (208V)
- 1E200 – MECHANICAL PLATFORM POWER (AREA A)
- 1E201 – MECHANICAL PLATFORM POWER PLAN (AREA A CONTINUED)
- 1E202 – POWER PLAN (AREA A)
- 1E203 – POWER PLAN (AREA A CONTINUED)
- 1E204 – ENLARGED KITCHEN POWER PLAN & EQUIPMENT WIRING SCHEDULE
- 1E300 – MECHANICAL PLATFORM MECHANICAL POWER PLAN (AREA A)
- 1E301 – MECHANICAL PLATFORM MECHANICAL POWER PLAN (AREA A CONTINUED)
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- 1E400 – MECHANICAL POWER LIGHTING PLAN (AREA A)
- 1E401 – MECHANICAL PLATFORM LIGHTING PLAN (AREA A CONTINUED)
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- 1E403 – LIGHTING PLAN (AREA A)
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- 1E405 – LIGHTING DETAILS
- 1E406 – MECHANICAL PLATFORM EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
- 1E407 – AREA A EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
- 1E408 – AREA A CONTINUED EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
- 1E409 – COURTYARD & TEMPORARY CONSTRUCTION EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
- 1E410 – MECHANICAL PLATFORM NORMAL PHOTOMETRIC CALCULATIONS
- 1E411 – AREA A NORMAL LIGHTING PHOTOMETRIC CALCULATIONS
- 1E412 -- AREA A CONTINUED NORMAL LIGHTING PHOTOMETRIC CALCULATIONS
- 1E500 – MECHANICAL PLATFORM FIRE ALARM (AREA A)
- 1E501 – MECHANICAL PLATFORM FIRE ALARM PLAN (AREA A CONTINUED)
- 1E502 – FIRE ALARM PLAN (AREA A)
- 1E505 – FIRE ALARM DETAILS
- 3E600 – OVERALL EXISTING BUILDING EMERGENCY EGRESS LIGHTING PLAN

Item No. 27: Equals:

<u>Section</u>	<u>Product</u>	<u>Manufacturer</u>
06 20 00	Millwork & Laminated Plastic Casework	Interior Wood Specialties
08 41 13	Aluminum Framed Entrances and Storefronts	Old Castle
08 44 13	Glazed Aluminum Curtain Walls	Old Castle
08 80 00	Glazing	Safti First
10 73 16	Eyebrow Canopy	Peachtree

This addendum contains 5 Summary Pages
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 92 30x40 Drawings

End of Addendum No. 2

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**Additions and Renovations to
The McCarthy Teszler School**
Spartanburg School District Seven
Spartanburg, South Carolina

Project Number 020063.00

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ADDENDUM 2

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**Additions and Renovations to
The McCarthy Teszler School**
Spartanburg School District Seven
Spartanburg, South Carolina

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PROPOSAL BY

Name of General Contractor Submitting Proposal

Board of Trustees
Spartanburg School District Seven
Spartanburg, South Carolina

Reference: Additions and Renovations to
The McCarthy Teszler School
Spartanburg School District Seven
Spartanburg, South Carolina

ADDENDA

The following addenda have been received by this contractor:

Addendum #1 _____	Dated: _____
Addendum #2 _____	Dated: _____
Addendum #3 _____	Dated: _____
Addendum #4 _____	Dated: _____
Addendum #5 _____	Dated: _____

The undersigned, having familiarized themselves with the local conditions affecting the cost of the work, and with the drawings and specifications, including all addenda prepared by McMillan Pazdan Smith hereby propose to furnish all labor, material, equipment and services necessary for the Additions and Renovations to The McCarthy Teszler School for Spartanburg School District Seven, in Spartanburg, South Carolina in accordance with the above documents for the lump sum of:

BASE BID: _____

_____ Dollars (\$_____.)

ALTERNATES:

Alternate No. 1: Chiller Replacement
_____ Dollars (Add \$_____)

Alternate No. 2: Generator
_____ Dollars (Add \$_____)

Alternate No. 3: Variable Frequency Drives
_____ Dollars (Add \$_____)

Alternate No. 4: PIC Valves
_____ Dollars (Add \$_____)

Alternate No. 5: Bipolar Generators
_____ Dollars (Add \$_____)

Alternate No. 6: HVAC Controls System
_____ Dollars (Add \$_____)

Alternate No. 7: Alternate Controls Contractor (Honeywell)

_____ Dollars (Add/Deduct \$_____)

UNIT PRICES:

Description	Unit	Pricing
1. Trench Rock Removal	CY	\$ _____
2. Blast Rock Removal	CY	\$ _____
3. Excavate Unsatisfactory Soils & Haul Offsite	CY	\$ _____
4. Excavate Unsatisfactory Soils & Stockpile Onsite	CY	\$ _____
5. Backfill of Excavations of Unsatisfactory Soils or Rock with Satisfactory Soils from an Onsite Source	CY	\$ _____
6. Backfill of Excavations of Unsatisfactory Soils or Rock with Borrow Soils	CY	\$ _____

SUBCONTRACTORS

Listed below are the names of the subcontractors this contractor will employ on this project to install the applicable portion of the work.

Electrical: _____

Mechanical: _____

Plumbing: _____

Fire Protection: _____

In submitting this bid, it is understood that:

The Owner reserves the right to reject any or all bids, and/or award the contract in accordance with their best interest.

This bid proposal may not be withdrawn for a period of thirty (30) days from the date of bid opening.

The bidder agrees to the conditions set forth in the paragraph titled "Time of Completion and Liquidated Damages" in the Supplementary General Conditions of the specifications.

Security, in the sum of 5% of the base bid, is submitted in accordance with the Supplementary Instructions to Bidders.

General Contractor: _____

By: _____

Address: _____

Phone Number: _____

Fax Number: _____

Contractor's License Number: _____

SECTION 01 21 00 - ALLOWANCES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements governing allowances.
 - 1. Selected materials and equipment are specified in the Contract Documents by allowances. In some cases, these allowances include installation. Allowances have been established in lieu of additional requirements and to defer selection of actual materials and equipment to a later date when additional information is available for evaluation. If necessary, additional requirements will be issued by Change Order.
- B. Types of allowances include the following:
 - 1. Lump-sum allowances.
- C. Related Sections: The following Sections contain requirements that relate to this Section:
 - 1. Division 1 Section "Modification Procedures" specifies procedures for submitting and handling Change Orders.
 - 2. Division 1 Section "Quality Control Services" specifies procedures governing the use of allowances for inspection and testing.

1.3 SELECTION AND PURCHASE

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

1.4 SUBMITTALS

- A. Submit proposals for purchase of products or systems included in allowances, in the form specified for Change Orders.
- B. Submit invoices or delivery slips to show the actual quantities of materials delivered to the site for use in fulfillment of each allowance.

PART 2 - PRODUCTS (Not Applicable)

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine products covered by an allowance promptly upon delivery for damage or defects.

3.2 PREPARATION

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

3.3 SCHEDULE OF ALLOWANCES

- A. Hardware Allowance: Contractor shall include in his Base Bid a lump sum of \$150,000.00 for the purchase of all door hardware, including taxes. Installation is not included in allowance but should be included in Base Bid. Refer to Section 08 71 00 - Door Hardware.
- B. Signage Allowance, Interior: Contractor shall include in his Base Bid a lump sum allowance of \$40,000.00 for the purchase and installation of the interior and exterior signage, including taxes.
- C. Carpet Allowance: Contractor shall include in his Base Bid a lump sum allowance of \$10,000.00 for the purchase and installation of the carpet, including taxes, waste, borders, matching carpet patterns, etc. Coordination of the work, building finish touch-up after installation, installation of rubber base at carpet areas, final cleaning of the carpet are not included in the allowance but should be included in the Base Bid. Refer to Section 09 68 00 – Carpet. Wall base is not a part of this allowance and is to be furnished and installed under the Base Bid.
- D. Contingency Allowance: Contractor shall include in his base bid the lump sum of \$600,000.00 to be used by the School District and the Architect. Items charged to the contingency allowance shall not be included in or considered for the general contractor's overhead and profit.
- E. Brick Allowance: Contractor shall include in his Base Bid a cash allowance of \$450.00 per thousand brick, including taxes, for the purchase of brick. Installation and all brick accessories, mortar, reinforcing, etc. are not included in allowance but should be included in base bid. Refer to Section 04 20 00 – Unit Masonry.
- F. Landscaping and Irrigation Allowance: Contractor shall include in his Base Bid a lump sum allowance of \$250,000.00 for the purchase and installation of trees, shrubbery, bedding plants and mulching beds, planting materials, and timed irrigation system, including taxes.
- G. BDA System Allowance: Contractor shall include in the base bid a lump sum allowance of \$250,000.00 for the design, purchase and installation of the BDA system, including taxes.

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- H. Playground Allowance: Contractor shall include in his base bid a lump sum allowance of \$400,000.00 for the purchase and installation of playground equipment, safety fall zones, mulch, etc., including taxes, as required to complete the playground design as provided by the owner.
- I. Window Treatments Allowance: Contractor shall include in his base bid a lump sum allowance of \$65,000.00 for the purchase and installation of motorized window treatments, including taxes.
- J. Appliance Allowance: Contractor shall include in his base bid a lump sum allowance of \$10,000.00 for the purchase of the residential appliances as shown on the drawings, including taxes. Costs for installation of the appliances shall be included in the base bid. General Contractor shall be responsible for coordination of all appliances with the casework shop drawings.
- K. DHEC Stormwater Allowance: Contractor shall include in his base bid a lump sum allowance of \$50,000.00 for plan revisions associated with Spartanburg County SCDHEC stormwater permitting.

For all allowances, any money remaining after the procurement of the allowance item is complete shall be transferred to the contingency allowance and not subject to contractor overhead and profit.

For all allowances, the architect / owner will receive proposals from outside subcontractors and shall assign the contract of the successful bidder to the general contractor for administration and coordination. Items charged to the allowance are not subject to contractor overhead and profit.

END OF SECTION 01 21 00

SECTION 01 23 00 - ALTERNATES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes administrative and procedural requirements for alternates.

1.3 DEFINITIONS

- A. Alternate: An amount proposed by bidders and stated on the Bid Form for certain work defined in the Bidding Requirements that may be added to or deducted from the base bid amount if Owner decides to accept a corresponding change either in the amount of construction to be completed or in the products, materials, equipment, systems, or installation methods described in the Contract Documents.
 - 1. The cost or credit for each alternate is the net addition to or deduction from the Contract Sum to incorporate alternate into the Work. No other adjustments are made to the Contract Sum.

1.4 PROCEDURES

- A. Coordination: Modify or adjust affected adjacent work to completely integrate work of the alternate into Project.
 - 1. Include as part of each alternate, miscellaneous devices, accessory objects, and similar items incidental to or required for a complete installation whether or not indicated as part of alternate.
- B. Notification: Immediately following award of the Contract, notify each party involved, in writing, of the status of each alternate. Indicate if alternates have been accepted, rejected, or deferred for later consideration. Include a complete description of negotiated modifications to alternates.
- C. Execute accepted alternates under the same conditions as other work of the Contract.
- D. Schedule: A Schedule of Alternates is included at the end of this Section. Specification Sections referenced contain requirements for materials necessary to achieve the work described under each alternate.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.1 SCHEDULE OF ALTERNATES

- A. Alternate No. 1 – Chiller Replacement
Replace Chiller Per Mechanical Plans and Specifications
- B. Alternate No. 2 – Generator
Install generator per electrical plans and specifications
- C. Alternate No. 3 – Variable Frequency Drives
Add Variable Frequency Drives to existing blower coils per mechanical plans and specifications.
- D. Alternate No. 4 – PIC Valves
Replace existing auto-flow valves with PIC valves on all existing blower coil units per mechanical plans and specifications.
- E. Alternate No. 5 – Bipolar Generators
Provide and install bipolar generators in all new blower coils and existing equipment where noted in the Existing Blower Coil Schedule and the Existing Air Handler Schedule.
- F. Alternate No. 6 – HVAC Controls System
Upgrade the HVAC Controls System for the existing building to include new controllers, sensors, actuators and software. Contact the owner to review existing schematic diagrams, sequences of operation, existing shop drawings and sensors.
- G. Alternate No. 7 – Alternate Controls Contractor
Contractor shall quote the addition or deduction to the contract price to use Honeywell Building Solutions as the controls contractor rather than Schneider Electric.

END OF SECTION 01 23 00

SECTION 08 42 29 – SLIDING AUTOMATIC ENTRANCES

PART 1 - GENERAL

1.1 SUMMARY

- A. This section includes the following types of automatic entrance doors:
 - 1. Exterior and interior sliding automatic entrances.
- B. Related Sections:
 - 1. Division 7 Sections for caulking to the extent not specified in this section.
 - 2. Division 8 Section “Aluminum-Framed Entrances and Storefronts” for entrances furnished separately in Division 8 Section.
 - 3. Division 8 Section “Door Hardware” for hardware to the extent not specified in this Section.
 - 4. Division 8 Section “Glazing” for materials and installation requirements of glazing for automatic entrance doors.
 - 5. Division 26 and 28 Sections for electrical connections including conduit and wiring for automatic entrance door operators and access control devices.

1.2 REFERENCES

- A. References: Refer to the version year adopted by the Authority Having Jurisdiction.
 - 1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
 - 2. ICC/IBC - International Building Code.
 - 3. CUL – Approved for use in Canada.
 - 4. NFPA 70 - National Electrical Code.
 - 5. NFPA 101 - Life Safety Code.
- B. American National Standards Institute (ANSI) / Builders Hardware Manufacturers Association (BHMA).
 - 1. ANSI/BHMA A156.10 American National Standard for Power Operated Pedestrian Doors.
 - 2. ANSI Z97.1 Standards for Safety Glazing Material Used in Buildings.
- C. Underwriters Laboratories (UL).
 - 1. UL 325 Standard for Safety for Door, Drapery, Gate, Louver and Window Operators and Systems.
- D. American Association of Automatic Door Manufacturers (AAADM).
- E. American Society for Testing and Materials (ASTM).
 - 1. ASTM B221 Standard Specification for Aluminum and Aluminum Alloy Extruded Bars, Rods, Wire, Profiles and Tubes.
 - 2. ASTM B209 Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate.
 - 3. ASTM 283e Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

- F. American Architectural Manufacturers Association (AAMA).
 - 1. AAMA 611 Voluntary Specification for Anodized Architectural Aluminum.
- G. National Association of Architectural Metal Manufacturers (NAAMM).
 - 1. Metal Finishes Manual for Architectural Metal Products.
- H. International Code Council (ICC).
 - 1. IBC: International Building Code.
- I. National Fenestration Rating Council (NFRC).
 - 1. NFRC 100-2010: Procedure for Determining Fenestration Product U-Factors.
 - 2. NFRC 200-2010: Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
 - 3. NFRC 500-2010: Procedure for Determining Fenestration Product Condensation Resistance Values.
- J. ASHRAE 90.1-2010/2013: Energy Standard for Buildings Except Low-Rise Residential Buildings.

1.3 DEFINITIONS

- A. Activation Device: Device that, when actuated, sends an electrical signal to the door operator to activate the operation of the door.
 - 1. Knowing act: Consciously initiating the opening of a power operated door using acceptable methods including wall mounted switches such as push plates and controlled access devices such as keypads, card readers and key switches.
- B. Safety Device: A device that detects the presence of an object or person within a zone where contact could occur and provides a signal to stop the movement of the door.

1.4 PERFORMANCE REQUIREMENTS

- A. Compliance with the following:
 - 1. ANSI/BHMA A156.10 American National Standard for Power Operated Pedestrian Doors.
 - 2. UL 325 listed.
- B. Automatic door equipment accommodates medium to heavy pedestrian traffic.
- C. Entrapment Force Requirements:
 - 1. Power Operated Sliding Doors: Not more than 30 lbf (133 N) required to prevent stopped door from closing.
 - 2. Sliding doors provided with a breakaway device shall require no more than 50 lbf (222N) applied 1 inch (25 mm) from the leading edge of the lock stile for the breakout panel to open.
- D. Energy Code Requirements: Sliding automatic entrances that are required to meet construction energy code requirements in those districts that have adopted ASHRAE 90.1-2010/2013 shall have been evaluated based on methodology in accordance with the following National Fenestration Rating Council (NFRC) standards:

1. NFRC 100-2010: Procedure for Determining Fenestration Product U-Factors.
2. NFRC 200-2010: Procedure for Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence.
3. NFRC 500-2010: Procedure for Determining Fenestration Product Condensation Resistance Values.
4. ASTM 283e-2010: Standard Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen.

1.5 SUBMITTALS

- A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, fabrication, operational descriptions and finishes.
- B. Shop Drawings: Submit manufacturer's shop drawings, including elevations, sections and details, indicating dimensions, materials, and fabrication of doors, frames, sidelites, operator, motion /presence sensor control device, anchors, hardware, finish, options and accessories.
- C. Samples: Submit manufacturer's samples of aluminum finish.
- D. Informational Submittals: Manufacturer's product information and applicable sustainability program credits that are available to contribute towards a LEED rated project certification.
 1. Credit MR 4.1 and 4.2: Manufacturer's or fabricator's certificate indicating percentage of post-consumer recycled content by weight and pre-consumer recycled content by weight for each Product specified under this Section.
- E. Manufacturers Field Reports: Submit manufacturer's field reports from AAADM certified technician of inspection and approval of doors for compliance with ANSI/BHMA A156.10 after completion of installation.
- F. Energy Calculations: Submit computer simulation data that is based on methodology in accordance with the National Fenestration Rating Council (NFRC) standards: NFRC 100-2010, NFRC 200-2010, NFRC 500-2010, and ASTM 283e-2010.
- G. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door opening installation in quantity as required in Division 01, Closeout Submittals. The manual to include the name, address, and contact information of the manufacturers providing the entrance and their nearest service representatives. The final copies delivered after completion of the installation test to include spare parts list.
- H. Warranties and Maintenance: Special warranties and maintenance agreements specified in this Section.

1.6 QUALITY ASSURANCE

- A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 10 years of documented experience in manufacturing of doors and equipment of similar to that indicated for this Project and that have a proven record of successful in-service performance. Manufacturer to have a company certificate issued by AAADM.

- B. Installer Qualifications: Installers, trained by the primary product manufacturers, with a minimum 3 years documented experience installing and maintenance of units similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.
- C. Certified Inspector Qualifications: Certified by AAADM.
- D. Source Limitations for Automatic Entrances: Obtain each type of door, frame, operator and sensor components specified in this Section from a single source, same manufacturer unless otherwise indicated.
- E. Power-Operated Pedestrian Door Standard: ANSI/BHMA A156.10 (current version).
- F. Emergency Exit door requirements: Comply with requirements of authorities having jurisdiction for automatic entrance doors serving as a required means of egress.

1.7 PROJECT CONDITIONS

- A. Field Measurements: Verify actual dimensions of openings to receive automatic entrances by field measurements before fabrication and indicate on shop drawings.

1.8 COORDINATION

- A. Coordinate sizes and locations of recesses in concrete floors for recessed tracks and thresholds if applicable. Concrete work is specified in Division 03.
- B. Electrical System Roughing-in: Coordinate layout and installation of automatic entrances with connections to power supplies and access control system as applicable.

1.9 WARRANTY

- A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.
- B. Automatic Entrance Doors shall be free of defects in material and workmanship for a period of One (1) year from the date of substantial completion.
- C. During the warranty period a factory-trained technician shall perform service and affect repairs. An inspection shall be performed after each adjustment or repair.
- D. During the warranty period all warranty work, including but not limited to emergency service, shall be performed during normal business hours.
- E. Manufacturer shall have in place a dispatch procedure that shall be available 24 hours a Day, 7 Days a week for emergency call back service.

PART 2 - PRODUCTS

2.1 MANUFACTURER

- A. Manufacturer: ASSA ABLOY Entrance Systems, 1900 Airport Road, Monroe, NC 28110. Toll Free (877) SPEC-123. Fax (704) 290- 5555 Website www.assaabloyentrance.us contact: specdesk.na.entrance@assaabloy.com

2.2 SLIDING AUTOMATIC ENTRANCES

- A. Sliding automatic entrance system including the following:
1. Sliding panels, sidelites and aluminum frame.
 2. Overhead concealed, electro-mechanical operator.
 3. Operator housing, guide system and carrier assemblies.
 4. Controls and accessories as required for a complete installation.
- B. Besam SL500 EcoDoor U-Factor (Basis of Design) Automatic Sliding Entrance with Stile and Rail Panels
1. Bi-parting, full breakout, door system.
 - a. Configuration: Bi-parting, four equal panel unit with two operable leaves and two pocket type sidelites.
 - b. Traffic Pattern: Two-way.
 - c. Emergency Breakaway Capability: Sliding leaves and sidelites.
 - d. Mounting: Overhead header installed between jambs.

2.3 ENTRANCE COMPONENTS

- A. Stile and Rail Sliding Panels and Sidelites:
1. Material: Extruded Aluminum, Alloy 6063-T5.
 2. Door panels shall have a minimum .125 inch (3.2 mm) structural wall thickness including adjoining horizontal members and perimeter frames where applicable.
 3. Door Construction shall be by means of an integrated corner block with 3/8 inch all-thread through bolt from each stile.
 4. Glass stops shall be .062 inch (15.8 mm) wall thickness and shall provide security function as a standard by means of a fixed non-removable exterior section with glazing to be performed from the interior only.
 5. Full breakout sliding entrances shall include two interlocks per moving panel securing the leading stile of the sidelite and the butt stile of the sliding door panel together.
 6. Vertical Stiles shall wide stile 5 inch (127 mm).
 7. Bottom Rails shall be 10 inch (254 mm).
 8. Intermediate Muntin shall be 4 inch (102 mm).
 9. Weather-Stripping: Slide-in type, replaceable pile mohair seals retained by the aluminum extrusions. The following types of weather-stripping are required: complementing weather-stripping on the joining vertical stiles of the sidelite and sliding door panels, complementing weather-stripping on the lead edge of the lock stiles of bi-parting doors, single pile weather-stripping between the carrier and the header, single pile weather-stripping on the lead edge stile of single slide door panels, dual pile weather-stripping on the pivot stile of breakout sidelite panels, and dual pile weather-stripping on the butt stile of fixed sidelite panels. Bottom rails shall be provided with an adjustable nylon sweep.

- a. EcoDoor Seals: High pile mohair weather stripping on the lock stile of the sliding doors, integrated mohair weather stripping with vinyl fin on the joining vertical stiles of the sidelite and sliding door panels, and expandable foam inserts in leading stile of sidelite panels at pockets for interlocks. Bottom rails shall be provided with a concealed adjustable nylon sweep.
10. U-Factor Door Package:
 - a. U-Factor door package shall have been evaluated in full compliance with the listed National Fenestration Rating Council (NFRC) and American Society for Testing and Materials (ASTM) standards: NFRC 100-2010, NFRC 200-2010, NFRC 500-2010, and ASTM 283e-2010.
 - b. U-Factor door package shall meet the following requirements:

U-Factor Rating	0.24 BTU/(h °F ft ²)
Solar Heat Gain Coefficient	0.23
Visible Light Transmittance	0.51
Condensation Resistance	22
Air infiltration rating	0.93 cuft/min/sqft 0.28x3/Mx2/min.
11. Glass: Glazing shall comply with ANSI Z97.1, thickness as indicated.
 - a. U-Factor Glazing Sliding Panels and Sidelite Panels: 1" (25 mm) overall thickness insulating glass unit consisting of an interior and exterior glass lite; both lites to be 1/4 inch (6 mm) clear tempered glass. Airspace to be 90% argon filled.
 - 1) Glazing shall be Guardian SNX 51/23
 - b. Glazing Sliding Panels and Sidelite Panels: 1" (25 mm) insulated glass with tempered panes.
 - c. Glazing Transom Panel: 1" (25 mm) insulated safety glass.
 - 1) Transom glazing shall meet the color, clarity, solar coating and performance requirements of the entrance glazing.
 - d. Glazing Installation: See Division 8 Section "Glazing" for requirements and the manufacturer instructions to meet the specified energy performance of the sliding entrance.
- B. Door Carriers: Manufacturer's standard carrier assembly that allows vertical adjustment.
 1. Carriage Assembly: Carriage bar with two wheel assemblies. Each assembly shall have tandem roller wheels.
 2. Roller Wheels: Two heavy duty Delrin roller wheels per wheel assembly, for a total of four (4) roller wheels, 1-7/16 inch (36.51 mm) diameter, per active door leaf for operation over a replaceable aluminum track. Single journal with sealed oil impregnated bearings.
 3. Two (2) heavy duty self-aligning anti-risers per leaf.
- C. Framing Members: Provide automatic entrances as complete assemblies. Manufacturer's standard extruded aluminum framing reinforced as required to support loads.
 1. Vertical Jambs: 1-3/4 inches (44.5 mm) by 6 inches (152.4 mm).
- D. Header: Manufacturer's standard extruded aluminum header with a replaceable aluminum track extending full width of entrance unit. Header to conceal door operators, carrier assemblies, and roller track; complete with hinged access panel for service of door operator, and controls.
 1. Header Span: Maximum 16'-0" (4.9 m) without intermediate supports when entrance glazed with 1/4-inch glass.
 - a. Capacity: Capable of supporting active breakout leafs up to maximum of 300 lb (136 kg) per leaf when header is supported per manufacturer's recommendations.
 2. Header Size: 6 inches (152.4 mm) wide by 7 inches (177.8 mm) high.

- a. Header height including the sensor plate cap which spans the clear door opening width is 8 inches (203.2 mm) high.
3. Header Access: Continuous hinge at top of header allows cover to swing and allow complete access to operator and internal electronic and mechanical assemblies.
4. Design: Closed header when doors in closed position.

2.4 HARDWARE

- A. Hardware: Provide manufacturer's standard hardware as required for operation indicated.
 1. Breakaway arms and bottom pivot assemblies shall be supplied by the manufacturer and shall be adjustable to comply with applicable codes.
 2. Magnetic catch(s) to retain breakout door and sidelite panels in the closed position.
 3. Hydraulic closer(s) to return breakout door and sidelite panels to the closed position.
 - a. Magnetic catch(s) to retain breakout door and sidelite panels in the closed position.
 4. Wind resistant hydraulic damper to control movement of breakout panels.
 5. Bottom ball detent on breakout sidelite panels to provide additional wind resistance.
 6. Locking hardware shall be provided as indicated.
 - a. Electrified slide lock shall automatically lock the sliding function of all sliding door panels within the entrance when the door panels are in the closed position.
 - 1) Fail secure operation: Slide lock shall lock the sliding function of the door panels upon loss of power.
 - 2) Fail safe operation: Slide lock shall unlock the sliding function of the door panels upon loss of power.
 - 3) Exterior jamb mounted key switch to unlock sliding door operation.
 - b. Exit devices shall lock the breakout function while allowing emergency egress at all times. Exit devices in combination with the automatic slide locking hardware to be provided on secured doors. Automatic locking for the sliding door when the door control switch is in the closed position.
 - 1) Adams-Rite 8600 Series, concealed vertical rod exit device mounted to the leading sliding panels.
 - a) Keyed cylinder to retract vertical rod.
 - 2) Flush mounted Adams-Rite F86 Series, concealed vertical rod exit devices mounted to the leading sliding panels.
 7. Keyed cylinders shall be provided as indicated.
 - a. Keyed cylinder specified in Division 8 Section "Door Hardware".
- B. Guide Track/Threshold: Manufacturer's threshold as indicated.
 1. Full Breakout Entrance Threshold: 1/2 inch (12.7 mm) high continuous aluminum threshold with integral track shall span the width of the sliding door header and fit between the vertical framing members. Threshold design shall allow for optional extruded ramps to securely interlock to flat section to meet ADA requirements.
 - a. Recessed mounted threshold.

2.5 DOOR OPERATORS AND CONTROLS

- A. Door Operator and Controller:
 1. Electro-mechanical controlled unit utilizing a high-efficiency, energy efficient, DC motor requiring a maximum of 3 amp current draw, allowing 5 operators on one 20 amp circuit.

The supplied system shall have the capability to operate at full performance well beyond a brown out and high line voltage conditions (85V – 265V) sensing changes and adjusting automatically. The operator shall allow an adjustable hold open time delay of 0 to 60 seconds and have internal software to incorporate a self-diagnostic system.

2. Operating Temperature Range: -31° F to 130° F (-35° C to 54.44° C).

B. Microprocessor Control Box:

1. Modular control unit to allow for changing technology. Factory-adjusted configuration with opening and closing speeds set to comply with ANSI/BHMA A156.10 requirements and electronic dampening to reduce wear on drive train. Should the drive train operations deviate from design criteria ranges, Watchdog Control Circuit Monitoring will assume command of the system and shut down the automatic function allowing a secondary supervisory circuit to perform as a backup. Control unit shall allow the following functions:
 - a. Diagnostics with the ability to produce application data.
2. Mode Selector Control:
 - a. Multi-position keyed cylinder mode selector control shall allow selection of the indicated functions to be engaged when switch is turned to the appropriate setting.
 - b. Mode Selector Control Mounting: Control shall be mounted as indicated:
 - 1) Jamb mounted.
 - c. Mode selector control to allow the following functions:
 - 1) "Off"
 - 2) "Exit Only" one way traffic with automatic operation from the interior.
 - 3) "Two Way Traffic" allowing automatic operation from exterior and interior.
 - 4) "Partial Opening" energy saving door position allows door to automatically adjust opening width based on amount of usage, that is, full open during high use and partial open during low use. The control for this setting is programmable allowing adjustment to both the usage setting and the opening width.
 - 5) "Hold Open" doors activated and held in the full open position.

2.6 ACTIVATION AND SAFETY CONTROL DEVICES

- A. General: Provide the types of activation and safety devices specified in accordance with ANSI/BHMA standards, for the condition of exposure and for long-term, maintenance-free operation under normal traffic load for type of occupancy indicated. Coordinate activation and safety devices with door operation and door operator mechanisms.
- B. Combination Activation Motion Sensor/Safety Presence Sensor:
 1. Shall be a sliding door sensor utilizing K-band microwave technology to detect motion and focused active infrared technology to detect presence, combined in a single housing surface mounted on each side of the header.
 - a. Presence sensor shall remain active at all times.
 - b. The sensor shall communicate with the automatic door operator through a self-monitoring connection that allows the door to go into a fail-safe mode preventing the door from closing in the event of a sensor failure.
 2. Motion/presence detecting sensors to be field installed and adjusted.

2.7 ELECTRICAL

- A. High-Efficiency DC Motor: Maximum of 3 amp current draw, allowing 5 operators to run on one 20 Amp circuit.
- B. Power: Self-detecting line voltage capable control. 120 VAC through 240 VAC, 50/60 Hz, 3 amp minimum incoming power with solid earth ground connection for each door system.
- C. Key Impulse Input: Input for card readers or remote activation with independent adjustable hold open delay.
- D. Wiring: Separate internal channel raceway free from moving parts.
- E. Brown out / high voltage capability: System has capability to operate at full performance well beyond brown out and high voltage line conditions (85 V – 265 V) sensing changes and adjusting automatically.
- F. Convenience Battery: Shall be concealed in header and capable of full operation with blackout conditions, including sensor capabilities for minimum of 100 cycles.

2.8 ALUMINUM FINISHES

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Anodized Finish:
 - 1. AAMA 611, Clear, AA- M12C22A41, Class I, 0.018 mm.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine doors and frames, with Installer present, for compliance with requirements for installation tolerances, wall and floor construction, and other conditions affecting performance.
- B. Examine roughing-in for electrical source power to verify actual locations of wiring connections.
- C. Proceed only after such discrepancies or conflicts have been resolved.

3.2 INSTALLATION

- A. Do not install damaged components. Fit frame joints to produce hairline joints free of burrs and distortion. Rigidly secure non-movement joints.
- B. Entrances: Install automatic entrances plumb and true in alignment with established lines and grades without warp or rack of framing members and doors. Anchor securely in place.
 - 1. Install surface mounted hardware using concealed fasteners to greatest extent possible.
 - 2. Set headers, carrier assemblies, tracks, operating brackets and guides level and true to location with anchorage for permanent support.

- C. Door Operators: Connect door operators to electrical power distribution system as specified in Division 26 Sections.
- D. Glazing: Glaze sliding automatic entrance door panels in accordance with the Glass Association of North America (GANA) Glazing Manual, published recommendations of glass product manufacturer, and published instructions of automatic entrance system manufacturer.
- E. Sealants: Comply with requirements specified in division 7 Section "Joint Sealants" to provide a weather tight installation.
 - 1. Set thresholds, bottom guide and track systems and framing members in full bed of sealant.
 - 2. Seal perimeter of framing members with sealant.
- F. Signage: Apply signage on both sides of each door and sidelite as required by ANSI/BHMA A156.10 and manufacturers installation instructions.

3.3 ADJUSTING

- A. Adjust door operators, controls and hardware for smooth and safe operation and for weather tight closure. Adjust doors in compliance with ANSI/BHMA A156.10.
- B. Verify installation and alignment of all entrance weather-stripping as required for compliance with specified air infiltration requirements.

3.4 FIELD QUALITY CONTROL

- A. Before placing doors into operation, AAADM certified technician shall inspect and approve doors for compliance with ANSI/BHMA A156.10. Certified technician shall be approved by the manufacturer.

3.5 CLEANING AND PROTECTION

- A. Clean adjacent surfaces soiled by door installation.
- B. Clean glass and metal surfaces promptly after installation. Remove excess sealants, compounds, dirt and other substances. Repair damages to match original finish.

3.6 DEMONSTRATION

- A. Engage a factory-authorized representative to train Owner's maintenance personnel to adjust, operate, and maintain safe operation of the door.

END OF SECTION

SECTION 08 80 00 - GLAZING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. This Section includes glazing for the following products, including those specified in other Sections where glazing requirements are specified by reference to this Section:
 - 1. Window units
 - 2. Vision lites
 - 3. Entrances and other doors
 - 4. Storefront construction
 - 5. Spandrel Glass
 - 6. Curtainwall construction

1.3 DEFINITIONS

- A. Manufacturer is used in this Section to refer to a firm that produces primary glass or fabricated glass as defined in the referenced glazing standard.
- B. Deterioration of Insulating Glass: Failure of the hermetic seal under normal use due to causes other than glass breakage and improper practices for maintaining, and cleaning insulating glass. Evidence of failure is the obstruction of vision by dust, moisture, or film on the interior surfaces of glass. Improper practices for maintaining and cleaning glass do not comply with the manufacturer's directions.

1.4 SYSTEM PERFORMANCE REQUIREMENTS

- A. General: Provide glazing systems that are produced, fabricated, and installed to withstand normal thermal movement, wind loading, and impact loading (where applicable), without failure including loss or glass breakage attributable to the following: defective manufacture, fabrication, and installation; failure of sealants or gaskets to remain watertight and airtight; deterioration of glazing materials; and other defects in construction.
- B. Glass Design: Glass thicknesses indicated on Drawings are for detailing only. Confirm glass thicknesses by analyzing Project loads and in-service conditions. Provide glass lites for the various size openings in the thicknesses and strengths (annealed or heat-treated) to meet or exceed the following criteria:
 - 1. Minimum glass thickness, nominally, of lites is 0.230 inch.

2. Minimum glass thicknesses of lites, whether composed of annealed or heat-treated glass, are selected so the worst-case probability of failure does not exceed the following:
 - a. 8 lites per 1000 for lites set vertically or not over 15 degrees off vertical and under wind action. Determine minimum thickness of monolithic annealed glass according to ASTM E 1300. For other than monolithic annealed glass, determine thickness per glass manufacturer's standard method of analysis including applying adjustment factors to ASTM E 1300 based on type of glass.
- C. Normal thermal movement results from the following maximum change (range) in ambient and surface temperatures acting on glass-framing members and glazing components. Base engineering calculation on materials' actual surface temperatures due to both solar heat gain and nighttime sky heat loss.
 1. Temperature Change (Range): 120 F deg, ambient; 180 F deg, material surfaces.

1.5 SUBMITTALS

- A. General: Submit the following according to Conditions of Contract and Division 01 Specification Sections.
- B. Product data for each glass product and glazing material indicated.
- C. Samples For Single Glazing: For verification purposes of 12-inch square samples of each type of glass indicated except for clear monolithic glass products, and 12-inch long samples of each color required (except black) for each type of sealant or gasket exposed to view. Install sealant or gasket sample between two strips of material representative in color of the adjoining framing system.
- D. Samples For Insulating Glass: Submit samples for all insulating glass assemblies. Include a sample of each type of glazing system/assembly to be used on the project. Each glazing sample shall contain a fully adhered label with the following listed information clearly marked. Glazing samples shall be of sufficient size to accommodate the requested information and still allow for visual evaluation of the glass and assembly. Samples without the following information will be rejected:
 1. Project name.
 2. Assembly date.
 3. Glass manufacturer's name and address.
 4. Fabricator's name and address.
 5. Name and color of each layer of glass in the assembly.
 6. When coated, location of coating within the assembly.
 7. The following certified performance Criteria for the glazing assembly:
 - a. Visible Light Transmittance %
 - b. UV Transmittance %
 - c. Total Winter and Summer U-Value for assembly
 - d. Solar Heat Gain
 - e. Shading Coefficient
- E. Product certificates signed by glazing materials manufacturers certifying that their products comply with specified requirements.
 1. Separate certifications are not required for glazing materials bearing manufacturer's permanent labels designating type and thickness of glass, provided labels represent a

quality control program of a recognized certification agency or independent testing agency acceptable to authorities having jurisdiction.

- F. Compatibility and adhesion test reports from sealant manufacturer indicating that glazing materials were tested for compatibility and adhesion with glazing sealants. Include sealant manufacturer's interpretation of test results relative to sealant performance and recommendations for primers and substrate preparation needed for adhesion.
- G. Compatibility test report from manufacturer of insulating glass edge sealant indicating that glass edge sealants were tested for compatibility with other glazing materials including sealants, glazing tape, gaskets, setting blocks, and edge blocks.
- H. Product test reports for each type of glazing sealant and gasket indicated, evidencing compliance with requirements specified.
- I. Maintenance data for glass and other glazing materials to include in Operating and Maintenance Manual specified in Division 1.

1.6 QUALITY ASSURANCE

- A. Glazing Publications: Comply with published recommendations of glass product manufacturers and organizations below, except where more stringent requirements are indicated. Refer to these publications for glazing terms not otherwise defined in this Section or in referenced standards.
 - 1. SIGMA - Sealed Insulating Glass Manufacturers Association Publications:
 - a. TM-3000 "Vertical Glazing Guidelines"
 - b. TB-3001 "Sloped Glazing Guidelines."
 - 2. GANA - Glass Association of North America (formerly FGMA) Glazing Manual.
 - a. Tempering Division - Engineering Standards Manual
 - b. Laminating Division - Laminated Glass Design Guide
 - 3. AAMA - Curtainwall Series
 - 4. TM3000 - Recommended Practices for Vertical and Basic Field Glazing of Organically Sealed Insulating Glass Units
- B. Glass Standards
 - 1. ASTM C1036 Standard Specification for Flat Glass (Formerly Federal Spec. DD-G-451d)
 - 2. ASTM C1048 Standard Specification for Heat Treated Flat Glass, Heat Strengthened and Fully Tempered Coated and Uncoated Glass. (Replaces DD-G-1403)
 - 3. ASTM C1172 Standard Specification for Laminated Architectural Flat Glass
 - 4. ASTM C1376 Standard Specification for Pyrolytic and Vacuum Deposition Coatings on Glass
 - 5. ASTM E773 Seal Durability of Sealed Insulating Glass Units
 - 6. ASTM E774 Sealed Insulating Glass Units
 - 7. ASTM E546 Test Method for Frost Point of Sealed Insulating Glass Units
 - 8. ASTM E576 Test Method for Dew/Frost Point of Sealed Insulating Glass Units in Vertical Position
- C. Safety Glass: Products complying with ANSI Z97.1 and testing requirements of 16 CFR Part 1201 for Category II materials.

1. Subject to compliance with requirements, provide safety glass permanently marked with certification label of Safety Glazing Certification Council (SGCC) or other certification agency acceptable to authorities having jurisdiction.
- D. Fire-Resistive Glazing Products for Door Assemblies: Products identical to those tested per ASTM E 152, labeled and listed by UL or another testing and inspecting agency acceptable to authorities having jurisdiction.
- E. Insulating Glass Certification Program: Provide insulating glass units permanently marked either on spacers or at least one component lite of units with appropriate certification label of inspecting and testing agency indicated below:
 1. Insulating Glass Certification Council (IGCC).
- F. Glazier Qualifications: Engage an experienced glazier with Class CBA certification and who has completed glazing similar in material, design, and extent to that indicated for Project with a record of successful in-service performance.
- G. Single-Source Responsibility for Glass: Obtain glass from one source for each product indicated below:
 1. Primary glass of each (ASTM C 1036) type and class indicated.
 2. Heat-treated glass of each (ASTM C 1048) condition indicated.
 3. Insulating glass of each construction indicated.
 4. Coated Glass ASTM C1376
- H. Single-Source Responsibility for Glazing Accessories: Obtain glazing accessories from one source for each product and installation method indicated.
- I. Preconstruction Compatibility and Adhesion Testing: Submit to sealant manufacturers, samples of each glass, gasket, glazing accessory, and glass-framing member that will contact or affect glazing sealants for compatibility and adhesion testing as indicated below:
 1. Use test methods standard with sealant manufacturer to determine if priming and other specific preparation techniques are required for rapid, optimum glazing sealants adhesion to glass and glazing channel substrates.
 2. Testing is not required when glazing sealant manufacturer can submit required preparation data that is acceptable to Architect and is based on previous testing of current sealant products for adhesion to and compatibility with submitted glazing materials.
- J. Substitute Requests For A Specified Entity
 1. Provisions, requirements, and stipulations stated under this paragraph of this specification apply not only to this specification, but they also apply to all other specifications that are included in the project manual, on the drawings or are otherwise a part of the Contract Documents even if not so stated in these documents. Information requested under this paragraph heading is the minimum required information for consideration and evaluation and additional information may be requested. This information is required in addition to information required by any substitute request forms that may be included in the Project Manual or Contract Documents, or otherwise provided.
 2. Where the Contract Documents list at least three entities (products, materials, components, systems, manufacturers, installers, methods, etc.), the Architect reserves the option to reject any and all requests for a substitute. Where the Contract Documents

list only one entity without “Or equal” or similar language, substitutes will not be considered. Where the Contract Documents list less than 3 entities, substitutes may be reviewed and evaluated on an individual base.

3. Include the following information on the cover page of the request:
 - a. Name of Project and project number as shown in the header of the specification
 - b. Date request is being made.
 - c. Name of person, company, and contact information of person requesting substitute.
 - d. Specification title and number and drawing number where the specified product is listed or shown.
 - e. Exact name of the specified entity and substitute entity. .
4. When requesting a substitute, include all requested and required supporting data, specifications, and performance criteria. The Architect must receive this substitute request no later than the time stated elsewhere for submitting product substitutions. If no time is stated, then 10 days prior to date of bid opening. When a Request For Substitute Form is included in the Project Manual, properly complete the form and include it with the submittal.
5. Verbal requests for a substitute or requests that do not comply with these provisions are not acceptable, will be rejected, and will not extend the submittal deadline. Submittals that are incomplete have vague or unspecific answers (“Better”. “Cheaper”. “More competitive”, etc.); that lack supporting data to substantiate equal or superior quality/design; that do not include the requested proof, verification, reports, and substantiating documentation; or are received after submittal deadline will be rejected. Provide convincing answers as to why the substitute should be approved. Rejection or disapproval will not extend the submittal deadline.
 - a. If the substitute entity differs from specified entity, compare the substitute entity with the specified entity in a tabular format that clearly shows all the differences.
6. Include the following information on all requests for substitutes:
 - a. Length of time the manufacturer has been in business.
 - b. Whether the manufacturer operated under any other name, and if so, under what name and when?
 - c. Length of time the substitute entity has been on the market.
 - d. Whether the substitute entity has been marketed under any other name, and if so, under what name and when?
 - e. Who will install and service the substitute entity?
 - f. Whether the installer is trained and certified by the manufacturer? If so, describe how this training and certification are achieved and if training records are maintained?
 - g. All required changes in the project design that will be required to incorporate the substitute entity.
 - h. Describe any known problems or failures associated with the substitute entity? If there are any, provide details.
7. The manufacturer’s published literature, description, capabilities, operating and performance parameters, options, accessories, etc. of all submitted substitutes shall meet or exceed those published by the manufacturer of the specified entity even if they are not specifically mentioned in the Contract Documents. Additionally, manufacturers whose standards are less than those of the specified entity but are capable of producing an entity that meets the specified entity shall not, for the convenience of their normal production methods, vary from the specified entity standards.

8. Where test data and standards are being submitted as supporting data and for comparison with the specified item, comply with the following requirements. Submittals not complying with these provisions will be considered incomplete, unacceptable, and will be rejected:
 - a. All substitutes shall meet all of the minimum performance criteria of the specified entity.
 - b. Submit certified data provided by an independent testing laboratory.
 - c. Prepare supporting data in side-by-side tabular form showing the submitted criteria next to each specified performance criteria and denoting the differences between the specified item the substitute item.
 - d. Show submitted data using same tests and standards and with the values and results in the same units of measure as those shown for the specified item.
 - e. Where a performance criterion is not listed in the specifications, comply with the specified product manufacturer's published data for performance criteria.
 - f. Where the specified entity requires certifications, registrations, approvals, policies, practices, etc., submit proof that the substitute entity is in compliance.

9. Each and all requests for substitutes shall be signed by the person making the submittal. By signing the submittal, the person requesting the substitute certifies and agrees to the following requirements. Requests without the signature of a responsible person will be rejected.
 - a. That the specifications have been read and are understood,
 - b. That the entity being submitted meets or exceeds all provisions of the specifications,
 - c. That all submitted information is true and accurate,
 - d. Will remove the substitute entity and replace it with an acceptable product, at his expense, if it is determined that the substitute does not meet the specifications as certified.
 - e. Agrees to pay for all necessary design changes and increased construction costs to incorporate the substitute entity.

1.7 DELIVERY, STORAGE, AND HANDLING

- A. Protect glazing materials to comply with manufacturer's directions and as needed to prevent damage to glass and glazing materials from condensation, temperature changes, direct exposure to sun, or other causes.

1.8 PROJECT CONDITIONS

- A. Environmental Conditions: Do not proceed with glazing when ambient and substrate temperature conditions are outside the limits permitted by glazing materials manufacturer or when glazing channel substrates are wet from rain, frost, condensation, or other causes.

1.9 WARRANTY

- A. General: Warranties specified in this Article shall not deprive the Owner of other rights the Owner may have under other provisions of the Contract Documents and will be in addition to and run concurrent with other warranties made by the Contractor under requirements of the Contract Documents.

- B. **Manufacturer's Warranty on Insulating Glass:** Submit written warranty signed by manufacturer of insulating glass agreeing to furnish replacements for insulating glass units that deteriorate as defined in "Definitions" article, f.o.b. point of manufacture, freight allowed Project site, within specified warranty period indicated below. Warranty covers only deterioration due to normal conditions of use and not to handling, installing, protecting, and maintaining practices contrary to glass manufacturer's published instructions.
1. **Warranty Period:** Manufacturer's standard but not less than 10 years after date of Substantial Completion.
 2. Provide single source warranty for fabricated glass products.
 3. **Warranty Period For Products:**
 - a. Insulating - Vertical - 10 years
 - b. Insulating - Sloped - 5 years
 - c. High Performance Coating - 10 years
 - d. Laminated - 5 years
 - e. Ceramic Frit - 5 years
 - f. Polyester Opac - 5 years

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. **Products:** Subject to compliance with requirements, provide glass by one of the following:.
1. **Class 1 (clear)** unless otherwise indicated.
 - a. AGC Glass.
 - b. Guardian Industries Corp.
 - c. Pilkington
 - d. PPG Industries, Inc.
 - e. Viracon

2.2 GLASS

- A. **General**
1. **Horizontal Distortion:** All tempered glass, including tinted, coated, and uncoated, shall have minimum horizontal distortion with minimum visible roller marks. All visible roller marks shall be in horizontal and run with the width of the glass. Horizontal distortion shall not exceed 0.005 inch as measured with a roller wave gauge.
 2. Specified glass performance is the minimum acceptable performance. Final glass tint will be as selected by the Architect from manufacturer's full range of standard and custom tints.
- B. **Clear Tempered:** ASTM C1048, Type 1 (transparent Float), Quality q3 (glazing select), Condition A (Uncoated), Kind FT (fully tempered), Class 1 (clear).
- C. **Fire Resistant Glass**
1. **Non-Barrier To Radiant Heat:** For glass that, according to applicable model building code and requirements of local governing authorities, does not need to be a barrier to radiant heat or meet to ASTM E119 or UL 263. Fire Resistant Glass under this category shall have the following properties:
 - a. **Manufacturer:** FireLite NT by Technical Glass Products or a reviewed substitute.
 - b. **Appearance:** Clear.
 - c. **Thickness:** As required to meet label of the opening, but not less than 3/16 inch.
 - d. **Visible Light Transmission:** 88%.

- e. Visible Reflection: 9%.
 - f. Fire Rating: 20 minutes up to 3 hours with hose stream test.
 - g. Impact Safety Rating: Meets ANSI Z97.1 and CPSC 16CFR1201 (Cat. 1 and 2).
 - h. Positive Pressure: Pass test standard UL10C, UBC 7-2, and UBC 7-4.
 - i. Withstand thermal shock
 - j. Warranty: 3 years
2. Barrier to Radiant Heat: Where applicable model building code and of local governing authorities require glass to be a barrier to radiant heat and meet ASTM E119 and UL 263, provide clear, meeting ANSI Z97.1 and CPSC 16CFR 1201 impact resistant safety standards. Pilkington Pyrostop, SCHOTT Pyran Platinum F or a reviewed substitute. Glass must be able to successfully pass the hose stream test. Glass thickness shall be based on the required rating and assembly as indicated in the following table.

Rating	Thickness (in.)	Type Assembly	Max. Exposed Area (sq. in.)	Max. Width Exposed Area (in.)
45 Min.	3/4 inch	Doors	1080	36
60 Min.	13/16	Walls	4290	78
60 Min	1-1/16	Doors	1080	36
		Walls	4290	78
90 Min.	1-1/2	Doors	1080	36
		Walls	1860	47
120 Min	2-1/8	Walls	3456	95

2.3 GLAZING TYPES

- A. Low E: Insulating Glazing Storefront: 1-inch thick, sealed, insulating, complying with ASTM E774, IGCC, Class CBA. Guardian SNX 51/23
 - 1. Low-E, 1-Inch Insulating, Clear
 - a. Exterior Lite: LOW-E with coating on No. 2 face -tempered.
 - b. Interior Lite: Clear tempered
 - 2. Insulating Space: 1/2 Inch thick.
 - 3. Sealing System: Dual seal, primary and secondary, manufacturer’s standard.
 - 4. Spacers: Manufacturer’s standards.
 - 5.
 - a. Visible Light Transmittance: 51%
 - b. Outside Reflectance: 14%
 - c. Inside Reflectance: 14%
 - d. U-Value: 0.24
 - e. Solar Heat Gain : 0.23
 - f. Light To Solar Gain Ratio: 2.19
- B. Single Glazing:
 - 1. Clear: 1/4 inch, tempered, clear.
- C. Fire Rated Glass: Firelite NT by Technical Glass Products

- D. Colored: Insulating Glazing Curtainwall: 1-5/16 inch thick, sealed, insulating, complying with ASTM E774, IGCC, Class CBA. Guardian SNX 62/27 at Lobby 829.
 - 1. Low-E, 1-5/16 Inch Insulating, Clear
 - a. Exterior Lite-Tempered, laminated 9/16 inch:
 - 3a) Laminated tempered with Vanceva polyvinyl butyral (PVB) plastic interlayer 000C Deep Red 0.060 thick.
 - 3b) Laminated tempered with Vanceva polyvinyl butyral (PVB) plastic interlayer 000D True Blue 0.060 thick.
 - 3c) Laminated tempered with Vanceva polyvinyl butyral (PVB) plastic interlayer 004D Green 0.060 thick.
 - 3d) Laminated tempered with Vanceva polyvinyl butyral (PVB) plastic interlayer 0004 Sahara Sun 0.060 thick.
 - b. Interior Lite: tempered Low-E on #5 face, 1/4 inch
 - 2. Insulating Space: 1/2 Inch thick.
 - 3. Sealing System: Dual seal, primary and secondary, manufacturer's standard.
 - 4. Spacers: Manufacturer's standards.

2.4 ELASTOMERIC GLAZING SEALANTS

- A. General: Provide products of type indicated, complying with the following requirements:
 - 1. Compatibility: Select glazing sealants and tapes of proven compatibility with other materials they will contact, including glass products, seals of insulating glass units, and glazing channel substrates, under conditions of installation and service, as demonstrated by testing and field experience.
 - 2. Suitability: Comply with sealant and glass manufacturer's recommendations for selecting glazing sealants and tapes that are suitable for applications indicated and conditions existing at time of installation.
 - 3. Colors: Provide color of exposed joint sealants to comply with the following:
 - a. Provide selections made by Architect from manufacturer's full range of standard colors for products of type indicated.
- B. Elastomeric Glazing Sealant Standard: Provide manufacturer's standard chemically curing, elastomeric sealants of base polymer indicated that comply with ASTM C 920 requirements indicated on each Elastomeric Glazing Sealant Product Data Sheet at the end of this Section, including those referencing ASTM classifications for Type, Grade, Class and Uses.

2.5 GLAZING TAPES

- A. Back-Bedding Mastic Glazing Tape: Preformed, butyl-based elastomeric tape with a solids content of 100 percent, nonstaining and nonmigrating in contact with nonporous surfaces, with or without spacer rod as recommended by tape and glass manufacturers for application indicated, packaged on rolls with a release paper backing, and complying with AAMA 800. Select applicable product from following list to glazing conditions:
 - 1. AAMA 804.1.
 - 2. AAMA 806.1.

3. AAMA 807.1.

B. Expanded Cellular Glazing Tape: Closed-cell, polyvinyl chloride foam tape, factory coated with adhesive on both surfaces, packaged on rolls with release liner protecting adhesive, and complying with AAMA 800 for product 810.5.

C. Products: Subject to compliance with requirements, provide one of the following:

1. Back-Bedding Mastic Glazing Tape Without Spacer Rod:

a. For moderate movement (AAMA 804.1)

- 1) PTI 303 Glazing Tape (shimless), Protective Treatments, Inc.
- 2) S-M 5700 Poly-Glaze Tape Sealant, Schnee-Morehead, Inc.
- 3) Tremco 440 Tape, Tremco Inc.

b. For large movement (AAMA 807.1)

- 1) Extru-Seal, Pecora Corp.
- 2) PTI 606 Architectural Sealant Tape, Protective Treatments, Inc.

c. For limited movement (AAMA 806.1)

- 1) Dyna-Seal, Pecora Corp.
- 2) PTI 626 Architectural Sealant Tape, Protective Treatments, Inc.
- 3) S-M 5710 H.P Poly-Glaze Tape Sealant, Schnee-Morehead, Inc.
- 4) SST-800 Tape, Tremco, Inc.

2. Back-Bedding Mastic Glazing Tape With Spacer Rod:

a. For moderate movement.

- 1) PTI 303 Glazing Tape (with shim), Protective Treatments, Inc.
- 2) Pre-shimmed Tremco 440 Tape, Tremco, Inc.
- 3) PTI 606 Architectural Sealant Tape, Protective Treatments, Inc.

3. Expanded Cellular Glazing Tape:

a. Norseal V-980 Closed-Cell Glazing Tape, Norton Company.

2.6 GLAZING GASKETS

A. Lock-Strip Gaskets: Neoprene extrusions in size and shape indicated, fabricated into frames with molded corner units and zipper lock strips, complying with ASTM C 542, black.

B. Dense Compression Gaskets: Molded or extruded gaskets of material indicated below, and compatible with sealants complying with standards referenced with name of elastomer indicated below, and of profile and hardness required to maintain watertight seal:

1. Neoprene, ASTM C 864.
2. EPDM, ASTM C 864.
3. Silicone, ASTM C 1115.
4. Thermoplastic polyolefin rubber, ASTM C 1115.

- C. Soft Compression Gaskets: Extruded or molded closed-cell, integral-skinned gaskets of material indicated below, and compatible with sealants complying with ASTM C 509, Type II, black, and of profile and hardness required to maintain watertight seal:
 - 1. Neoprene.
 - 2. EPDM.
 - 3. Silicone.
 - 4. Thermoplastic polyolefin rubber.

- D. Manufacturers: Subject to compliance with requirements, provide products by one of the following companies.
 - 1. Lock-Strip Gaskets:
 - a. Stanlock Div., Griffith Rubber Mills.

 - 2. Preformed Gaskets:
 - a. Advanced Elastomer Systems, L.P.
 - b. Schnee-Morehead, Inc.
 - c. Tremco, Inc.

2.7 MISCELLANEOUS GLAZING MATERIALS

- A. General: Provide products of material, size, and shape complying with referenced glazing standard, requirements of manufacturers of glass and other glazing materials involved for glazing application indicated, and with a proven record of compatibility with surfaces contacted in installation.

- B. Cleaners, Primers and Sealers: Type recommended by sealant or gasket manufacturer.

- C. Glazing Spacer: Warm-edge spacer thermally broken aluminum spacer for sealed insulating glass units. Material shall consist of polyurethane polymer and anodized aluminum in color as selected by the Architect. Thickness as required to meet required insulating space. Azon USA, Inc. or reviewed substitute.

- D. Setting Blocks: Elastomeric material with a Shore A durometer hardness of 85 plus or minus 5.

- E. Spacers: Elastomeric blocks or continuous extrusions with a Shore A durometer hardness required by glass manufacturer to maintain glass lites in place for installation indicated.

- F. Edge Blocks: Elastomeric material of hardness needed to limit glass lateral movement (side-walking).

- G. Plastic Foam Joint Fillers: Preformed, compressible, resilient, nonstaining, nonextruding, nonoutgassing, strips of closed-cell plastic foam of density, size, and shape to control sealant depth and otherwise contribute to produce optimum sealant performance.

- H. Perimeter Insulation for Fire-Resistive Glazing: Identical to product used in test assembly to obtain fire-resistive rating.

2.8 FABRICATION OF GLASS AND OTHER GLAZING PRODUCTS

- A. Fabricate glass and other glazing products in sizes required to glaze openings indicated for Project, with edge and face clearances, edge and surface conditions, and bite complying with recommendations of product manufacturer and referenced glazing standard as required to comply with system performance requirements.
- B. Clean cut or flat grind vertical edges of butt-glazed monolithic lites in a manner that produces square edges with slight kerfs at junctions with indoor and outdoor faces.

2.9 GLAZING COLORATION

- A. Vanceva System
 - 1. Colors shall be selected from the manufacturer's full range of standard and custom colors.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine glass framing, with glazier present, for compliance with the following:
 - 1. Manufacturing and installation tolerances, including those for size, squareness, offsets at corners.
 - 2. Presence and functioning of weep system.
 - 3. Minimum required face or edge clearances.
 - 4. Effective sealing between joints of glass-framing members.
- B. Do not proceed with glazing until unsatisfactory conditions have been corrected.

3.2 PREPARATION

- A. Clean glazing channels and other framing members receiving glass immediately before glazing. Remove coatings that are not firmly bonded to substrates.

3.3 GLAZING, GENERAL

- A. Comply with combined recommendations of manufacturers of glass, sealants, gaskets, and other glazing materials, except where more stringent requirements are indicated, including those in referenced glazing publications.
- B. Glazing channel dimensions as indicated on Drawings provide necessary bite on glass, minimum edge and face clearances, and adequate sealant thicknesses, with reasonable tolerances. Adjust as required by Project conditions during installation.
- C. Protect glass from edge damage during handling and installation as follows:

1. Use a rolling block in rotating glass units to prevent damage to glass corners. Do not impact glass with metal framing. Use suction cups to shift glass units within openings; do not raise or drift glass with a pry bar. Rotate glass lites with flares or bevels on bottom horizontal edges so edges are located at top of opening, unless otherwise indicated by manufacturer's label.
 2. Remove damaged glass from Project site and legally dispose of off site. Damaged glass is glass with edge damage or other imperfections that, when installed, weaken glass and impair performance and appearance.
- D. Apply primers to joint surfaces where required for adhesion of sealants, as determined by preconstruction sealant-substrate testing.
- E. Install elastomeric setting blocks in sill rabbets, sized and located to comply with referenced glazing standard, unless otherwise required by glass manufacturer. Set blocks in thin course of compatible sealant suitable for heel bead.
- F. Do not exceed edge pressures stipulated by glass manufacturers for installing glass lites.
- G. Provide spacers for glass sizes larger than 50 united inches (length plus height) as follows:
1. Locate spacers inside, outside, and directly opposite each other. Install correct size and spacing to preserve required face clearances, except where gaskets and glazing tapes are used that have demonstrated ability to maintain required face clearances and comply with system performance requirements.
 2. Provide 1/8-inch minimum bite of spacers on glass and use thickness equal to sealant width. With glazing tape, use thickness slightly less than final compressed thickness of tape.
- H. Provide edge blocking to comply with requirements of referenced glazing publications, unless otherwise required by glass manufacturer.
- I. Set glass lites in each series with uniform pattern, draw, bow, and similar characteristics.
- J. Where wedge-shaped gaskets are driven into one side of channel to pressurize sealant or gasket on opposite side, provide adequate anchorage so gasket cannot walk out when installation is subjected to movement.
- K. Square cut wedge-shaped gaskets at corners and install gaskets in manner recommended by gasket manufacturer to prevent corners from pulling away; seal corner joints and butt joints with sealant recommended by gasket manufacturer.
- 3.4 TAPE GLAZING
- A. Position tapes on fixed stops so that when compressed by glass their exposed edges are flush with or protrude slightly above sightline of stops.
- B. Install tapes continuously but not in one continuous length. Do not stretch tapes to make them fit opening.

- C. Where framing joints are vertical, cover these joints by applying tapes to heads and sills first and then to jambs. Where framing joints are horizontal, cover these joints by applying tapes to jambs and then to heads and sills.
- D. Place joints in tapes at corners of opening with adjoining lengths butted together, not lapped. Seal joints in tapes with compatible sealant approved by tape manufacturer.
- E. Do not remove release paper from tape until just before each lite is installed.
- F. Apply heel bead of elastomeric sealant.
- G. Center glass lites in openings on setting blocks and press firmly against tape by inserting dense compression gaskets formed and installed to lock in place against faces of removable stops. Start gasket applications at corners and work toward centers of openings.
- H. Apply cap bead of elastomeric sealant over exposed edge of tape.

3.5 GASKET GLAZING (DRY)

- A. Fabricate compression gaskets in lengths recommended by gasket manufacturer to fit openings exactly, with stretch allowance during installation.
- B. Secure compression gaskets in place with joints located at corners to compress gaskets producing a weathertight seal without developing bending stresses in glass. Seal gasket joints with sealant recommended by gasket manufacturer.
- C. Install gaskets so they protrude past face of glazing stops.

3.6 SEALANT GLAZING (WET)

- A. Install continuous spacers between glass lites and glazing stops to maintain glass face clearances and to prevent sealant from extruding into glass channel weep systems until sealants cure. Secure spacers in place and in position to control depth of installed sealant relative to edge clearance for optimum sealant performance.
- B. Force sealants into glazing channels to eliminate voids and to ensure complete wetting or bond of sealant to glass and channel surfaces.
- C. Tool exposed surfaces of sealants to provide a substantial wash away from glass. Install pressurized gaskets to protrude slightly out of channel to eliminate dirt and moisture pockets.

3.7 LOCK-STRIP GASKET GLAZING

- A. Comply with ASTM C 716 and gasket manufacturer's printed recommendations. Provide supplementary wet seal and weep system unless otherwise indicated.

3.8 INSPECTION GUIDELINES FOR COATED GLASS

- A. Glass shall comply with ASTM C1376 and the following criteria when viewed from a bright and uniform background:
 - B. Pinholes

1. Inspect from 10 feet
2. Pinholes larger than 1/16 inch diameter are unacceptable
3. Large clusters or close spacing of smaller pinholes are not acceptable in any area that a person would normally look through. Clusters are acceptable out of the normal viewing area.

C. Scratches

1. Inspect from 10 feet
2. Scratches up to 3 inches long are acceptable.
3. Larger scratches are acceptable only if they are within 3 inches of the edge of the glass.
4. Concentrated scratches or abraded areas are not acceptable anywhere.

D. Reflectance and Transmission:

1. Inspect from 10 feet
2. Uniformity: Some streaking or mottled appearance is acceptable
3. Distortion: Distortions of reflected objects are acceptable.

E. Spandrel Glass:

1. Inspect from 15 feet under natural daylight conditions.
2. Slight variance in color and reflectance when viewed against a dark uniform back ground is acceptable.
3. Pinholes and scratches viewed in reflectance are acceptable if they are not obvious.

3.9 PROTECTION AND CLEANING

- A. Protect exterior glass from breakage immediately after installation by attaching crossed streamers to framing held away from glass. Do not apply markers to glass surface. Remove nonpermanent labels, and clean surfaces.
- B. Protect glass from contact with contaminating substances resulting from construction operations including weld splatter. If, despite such protection, contaminating substances do come into contact with glass, remove them immediately as recommended by glass manufacturer.
- C. Examine glass surfaces adjacent to or below exterior concrete and other masonry surfaces at frequent intervals during construction, but not less than once a month, for build-up of dirt, scum, alkali deposits, or stains, and remove as recommended by glass manufacturer.
- D. Remove and replace glass that is broken, chipped, cracked, abraded, or damaged in any way, including natural causes, accidents and vandalism, during construction period.
- E. Wash glass on both faces in each area of Project not more than 4 days prior to date scheduled for inspections that establish date of Substantial Completion. Wash glass as recommended by glass manufacturer.

END OF SECTION 08 80 00

SECTION 09 66 60 – COMMERCIAL KITCHEN FLOORING

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.
- B. Division 09 section "Self Leveling Concrete Substrate Underlayment" for underlayment to reduce moisture emissions.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Vinyl sheet floor coverings
- B. Provide and install commercial resilient vinyl flooring per manufacturer's installation requirements and recommendations.
- C. Resilient wall base, reducer strips, and other accessories installed with sheet vinyl floor coverings are specified in Division 9 Section "Resilient Wall Base and Accessories."

1.3 SUBMITTALS

- A. General: Submit the following in accordance with Conditions of Contract and Division 1 Specification Sections.
- B. Product data for each type of product specified.
 - 1. Certification by floor covering manufacturer that products supplied for installation comply with local regulations controlling use of volatile organic compounds (VOC's).
- C. Shop drawings showing location of seams and edge strips. Indicate location of columns, doorways, enclosing partitions, built-in cabinets, and locations where cutouts are required in flooring.
- D. Samples for initial selection purposes in form of manufacturer's color charts consisting of actual sections of sheet vinyl floor coverings showing full range of colors and patterns available for each different product indicated.
- E. Samples for verification purposes in form of 6 x 9-inch (150 x 225 mm) sections of each different color and pattern of sheet floor covering product specified, showing full range of variations expected in these characteristics.
- F. Product certificates, in lieu of laboratory test reports when permitted by Architect, signed by manufacturer certifying that each product complies with requirements.

- G. Installer certificates signed by floor covering manufacturer certifying that Installers comply with requirements specified under "Quality Assurance" article.
- H. Maintenance data for sheet floor coverings, to include in the Operating and Maintenance Manual specified in Division 1.
- I. Seams: Submit a floor plan showing each floor covering seam and all floor expansion, construction, and control joints. Indicate how these joints will be addressed.

1.4 QUALITY ASSURANCE

- A. Installer Qualifications: Engage Installer that is certified by floor covering manufacturer as competent in the technique for heat-welding seams.
- B. Single-Source Responsibility for Sheet Floor Coverings: Obtain each type, color, and pattern of sheet floor covering from a single source with resources to provide products of consistent quality in appearance and physical properties without delaying progress of the Work.
- C. Fire Performance Characteristics: Provide sheet floor coverings with the following fire performance characteristics as determined by testing products per ASTM test method indicated below by Underwriters Laboratories, Inc. (UL) or another testing and inspecting agency acceptable to authorities having jurisdiction.
 - 1. Critical Radiant Flux: 0.45 watts per sq cm or more per ASTM E 648.
 - 2. Smoke Density: Less than 450 per ASTM E 662.
- D. Substitute Requests For A Specified Entity
 - 1. Information requested under this paragraph heading is the minimum required information for consideration and evaluation and additional information may be requested. This information is required in addition to information required by any substitute request forms that may be included in the Project Manual or Contract Documents, or otherwise provided.
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 - 3. Include the following information on the cover page of the request:
 - a. Name of Project and project number as shown in the header of the specification
 - b. Date request is being made.
 - c. Name of person, company, and contact information of person requesting substitute.
 - d. Specification title and number and drawing number where the specified product is listed or shown.
 - e. Exact name of the specified entity and substitute entity. .
 - 4. When requesting a substitute, include all requested and required supporting data, specifications, and performance criteria. The Architect must receive this substitute request no later than the time stated elsewhere for submitting product substitutions. If no time is stated, then 10 days prior to date of bid opening. When a Request For Substitute Form is included in the Project Manual, properly complete the form and include it with the submittal.

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 - f. Whether the installer is trained and certified by the manufacturer? If so, describe how this training and certification are achieved and if training records are maintained?
 - g. All required changes in the project design that will be required to incorporate the substitute entity.
 - h. Describe any known problems or failures associated with the substitute entity? If there are any, provide details.
7. The manufacturer’s published literature, description, capabilities, operating and performance parameters, options, accessories, etc. of all submitted substitutes shall meet or exceed those published by the manufacturer of the specified entity even if they are not specifically mentioned in the Contract Documents. Additionally, manufacturers whose standards are less than those of the specified entity but are capable of producing an entity that meets the specified entity shall not, for the convenience of their normal production methods, vary from the specified entity standards.
8. Where test data and standards are being submitted as supporting data and for comparison with the specified item, comply with the following requirements. Submittals not complying with these provision will be considered incomplete, unacceptable, and will be rejected:
 - a. All substitutes shall meet all of the minimum performance criteria of the specified entity.
 - b. Submit certified data provided by an independent testing laboratory.
 - c. Prepare supporting data in side-by-side tabular form showing the submitted criteria next to each specified performance criteria and denoting the differences between the specified item the substitute item.
 - d. Show submitted data using same tests and standards and with the values and results in the same units of measure as those shown for the specified item.
 - e. Where a performance criterion is not listed in the specifications, comply with the specified product manufacturer’s published data for performance criteria.
 - f. Where the specified entity requires certifications, registrations, approvals, policies, practices, etc., submit proof that the substitute entity is in compliance.

9. Each and all requests for substitutes shall be signed by the person making the submittal. By signing the submittal, the person requesting the substitute certifies and agrees to the following requirements. Requests without the signature of a responsible person will be rejected.
 - a. That the specifications have been read and are understood,
 - b. That the entity being submitted meets or exceeds all provisions of the specifications,
 - c. That all submitted information is true and accurate,
 - d. Will remove the substitute entity and replace it with an acceptable product, at his expense, if it is determined that the substitute does not meet the specifications as certified.
 - e. Agrees to pay for all necessary design changes and increased construction costs to incorporate the substitute entity.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Deliver sheet vinyl floor coverings and installation accessories to Project site in original manufacturer's unopened cartons and containers, each bearing names of product and manufacturer, Project identification, and shipping and handling instructions.
- B. Store flooring materials in dry spaces protected from the weather with ambient temperatures maintained between 50 deg F (10 deg C) and 90 deg F (32 deg C).
- C. Move sheet vinyl floor coverings and installation accessories into spaces where they will be installed at least 48 hours in advance of installation.

1.6 PROJECT CONDITIONS

- A. Maintain a minimum temperature of 70 deg F (21 deg C) in spaces to receive sheet vinyl floor coverings for at least 48 hours prior to installation, during installation, and for not less than 48 hours after installation. After this period, maintain a temperature of not less than 55 deg F (13 deg C).
- B. Do not install sheet vinyl floor coverings until they are at the same temperature as the space where they are to be installed.
- C. Close spaces to traffic while installing sheet vinyl floor covering.

1.7 SEQUENCING AND SCHEDULING

- A. Install sheet vinyl floor coverings and accessories after other finishing operations, including painting, have been completed.
- B. Do not install sheet vinyl floor coverings over concrete slabs until the slabs have cured and are sufficiently dry to bond with adhesive as determined by floor covering manufacturer's recommended bond and moisture test.

1.8 EXTRA MATERIALS

- A. Deliver extra materials to Owner. Furnish extra materials matching products installed as described below, packaged with protective covering for storage and identified with labels clearly describing contents.
 - 1. Furnish not less than 10 linear feet (3 linear meters) for each 500 linear feet (150 linear meters) or fraction thereof, in roll form of each different composition, wearing surface, color, and pattern of sheet vinyl floor covering installed.

1.9 WARRANTY

- A. Fifteen years

PART 2 - PRODUCTS

2.1 COMMERCIAL KITCHEN FLOORING

- A. Protect-All Commercial Flooring as manufactured by:

Oscoda Plastics®, Inc.
5585 n. Huron Ave.
Oscoda, MI 48750
800-544-9538
csr@protect-allflooring.com

- 1. Protect-All sheets in 5' x 8' or in ¼" thickness with color chosen from manufacturer's samples in matte finish.
- 2. Protect-All 2-part epoxy flooring adhesives.
- 3. Protect-All cove base system with a minimum height of 6".
 - 3a. Protect-All Rapid Weld™ or corner rod for the cove base system.
- 4. Protect-All Rapid Weld or V-Rod for floor seams.
- 5. Protect-All aluminum or stainless steel cove base cap (Z-bar).
- 6. Protect-All stainless steel drain rings, corner guards, and transition strips as provided by Oscoda Plastics.
 - a. Protect-All stainless steel fasteners and anchors for drain rings, corner guards, and transition strips
- 7. Protect-All E-6100 sealant.
- 8. Other installation materials as required and supplied by Protect-All.

2.3 INSTALLATION VERIFICATIONS

- A. Manufacturer installation instructions for watertight applications along with required accessories, located at www.protect-allflooring.com.
- B. Experience of installer pertaining to Protect-All Rapid Weld and heat welding the Protect-All system.

- C. Provide representative samples of product depicting color and finished surface of installed flooring material. Include range samples, if variation of finish is anticipated.
- D. Provide a mock-up showing cove base, corner, and drain details with welding example.
- E. Provide documentation attesting to the successful use of product in wet areas.
- F. Provide copy of manufacturer's product warranty.

2.4 VERIFICATION OF JOB CONDITIONS

- A. Proper substrate
 - 1. Assure that the substrate material is suitable for installation of flooring as indicated by manufacturer. Approved substrates include: marine-grade or underlayment grade plywood, cement board, and concrete (non-gypsum based only), properly cleaned and prepared per manufacturer's guidelines.
 - a. Protect-All is not to be installed over any existing finish, such as quarry tile, any paint, or any type of tile.
 - b. Protect-All must not be installed in an "operating environment," meaning an environment that is not prepared to close entirely for the duration of the installation.
 - 2. Concrete substrates must be dry and free of curing compounds, sealers, hardeners, and other materials whose presence would interfere with bonding of adhesive. Determine adhesion and dryness characteristics by performing bond and moisture tests recommended by floor covering manufacturer.
 - 3. Verify a clean, dry, and structurally sound surface to accept adhesive, free of cracks, ridges, depression, scales, and foreign deposits of any kind.
 - 4. Use only cementitious patching and filling compounds (3500 PSI). Consult manufacturer for details.
 - 5. Assure that the levelness (FL 15), and flatness (FF20 5/16 in 10 Ft.) of surface is in compliance with manufacturer's guidelines.
 - 6. Verify that sub-floor surfaces (concrete, marine-grade or underlayment grade plywood, cement board) are ready for resilient flooring installation by testing moisture emission rate and alkalinity, in accordance with ASTM F 710; obtain instructions if test results are not within limits recommended by resilient flooring manufacturer and adhesive materials manufacturer. Reference ASTM F 710 - Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
 - 7. The following standards apply:
 - ASTM E 1745-97 – Standard Specification for Water Vapor Retarders
 - ASTM E 1643 – Standard Practice for Installation of Water Vapor Retarders used in contact with Earth or Granular Fill Under Concrete Slabs
 - ASTM E 96-00 – Standard Test Method for Water Vapor Transmission of Materials
 - ACI 302.1R-04 – Guide for Floor and Concrete Slab Construction

- ACI 302.2R-06 – Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
- ASTM F710-08 – Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring
- ASTM F 1869 – Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride

B. Environmental Conditions

1. The contractor and installer of product are responsible for providing and maintaining a proper installation environment.
2. Installation area must be enclosed and watertight with all walls, wall finishes, doors, and floor penetrations in place.
3. Proper temperature acclimation of flooring material is required prior to installation at a minimum of 24 hours.
4. Assure confinement of space during installation and curing of adhesives to prevent other trades from damaging the product or compromising the adhesion.
5. Maintain a constant temperature during the installation and throughout the curing of adhesives.
6. Provide a secure area to store materials for installation.
7. Building must be completely enclosed and watertight. HVAC system must be on at least 7 days prior to installation beginning, keeping the interior temperature at 70°. This temperature should be maintained during the installation, and an additional 8 days after completion.
 - 7a. Protect-All cannot have any heavy foot, or rolling load traffic until flooring adhesive has fully cured, 7-8 days.

C. Proper Drain and Other Floor Penetration Elevations.

1. All drains to be installed level and 3/16" above the surface of the substrate with a proper slope of 1/8" – 1/4" per foot.
2. When sloping to the drain area is specified, the slope should not be less than 36" in diameter and more than 3/8" in depth.
3. All other penetrations should be installed 3/16" above the substrate.
4. Wall penetrations must be a minimum of 8" above the floor surface.

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Follow manufacturer recommendations for laying sheets out.
- B. Flooring must be cut tight to all penetrations.

- C. Adhere the floor material using manufacturer's recommended adhesive for the particular substrate type, job conditions, and in compliance with spread rate and proper trowel size.
 - D. Roll floor into adhesive with 100 lb. roller immediately and a second time one hour later, as per manufacturer directions.
 - E. Install stainless steel drain rings around all drains and other surface penetrations. Drain rings are to be routed into the floor surface and mounted flush with the top of the flooring. Secure drain rings using Stainless Steel fasteners and anchors to provide a mechanical bond to the substrate.
 - F. Install cove base as recommended by manufacturer with proper adhesive and top sealant. Protect-All Rapid Weld or heat-weld all seams.
 - G. Install cove base cap fastening to wall a minimum of 8" on-center using stainless steel fasteners.
 - H. Protect-All Rapid Weld or heat-weld all field material seams using manufacturer's welding material, proper tools, and installation methods.
 - I. Stainless steel transitions as provided by the manufacturer must be used in doorways and transition areas. Use stainless steel fasteners, and anchors to secure.
 - J. All exposed edges are to be sealed with manufacturer's E-6100 sealant.
- 3.2 CLEANING
- A. Refer to the manufacturer's cleaning recommendations located at www.Protect-Allflooring.com.

SECTION 10 21 23 - CURTAIN CUBICLES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. This Section includes the following:
 - 1. Cubicle curtain tracks and carriers.
 - 2. Cubicle curtains.
- B. Related Section: Division 6 Section "Miscellaneous Carpentry" contains requirements for blocking for mounting tracks, curtain tiebacks, wall brackets, and other items requiring anchorage.

1.3 SUBMITTALS

- A. General: Submit each item in this Article according to the Conditions of the Contract and Division 1 Specification Sections.
- B. Product Data including durability, fade resistance, and fire-test-response characteristics for each type of curtain fabric specified.
- C. Shop Drawings showing layout and types of cubicles, size of curtains, number of carriers, anchorage details, and conditions requiring accessories. Indicate dimensions taken from field measurements.
- D. Coordination Drawings for reflected ceiling plans drawn accurately to scale and coordinating penetrations and ceiling-mounted items. Show the following:
 - 1. Ceiling suspension assembly members.
 - 2. Method of attaching cubicle curtain track hangers to building structure.
- E. Samples for initial selection in the form of manufacturer's color charts for each type of curtain fabric indicated.
- F. Samples for verification of the following products, showing the full range of color, texture, and pattern variations expected.
 - 1. Curtain Fabric: 12-inch square swatch from dye lot used for the Work, with specified treatments applied. Show complete pattern repeat. Mark top and face of material.
 - 2. Mesh Fabric: Manufacturer's standard-size unit, not less than 4 inches square.
 - 3. Cubicle Curtain Track: Manufacturer's standard-size unit, not less than 4 inches long.
 - 4. Curtain Carrier: Manufacturer's full-size unit.

- G. Schedule of cubicles using same room designations indicated on Drawings.
- H. Product certificates signed by manufacturers of cubicle tracks and curtains certifying that their products comply with specified requirements.
- I. Maintenance data for cubicle tracks and curtains to include in the operation and maintenance manual specified in Division 1.

1.4 PROJECT CONDITIONS

- A. Field Measurements: Verify dimensions by field measurements. Verify that tracks and curtains may be installed to comply with the original design and referenced standard.
- B. Space Enclosure and Environmental Limitations: Do not install tracks and curtains until space is enclosed and weatherproof, wet-work in space is completed and nominally dry, and work above ceilings is complete.

1.6 EXTRA MATERIALS

- A. Furnish extra materials described below, before construction begins, that match products installed, are packaged with protective covering for storage, and are identified with labels clearly describing contents.
 - 1. Curtain Carriers and Track End Caps: Before installation begins, furnish quantity of full-size units equal to 3 percent of amount installed.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturers: Subject to compliance with requirements, provide cubicles by one of the following:
 - 1. Inpro Clickeze
 - 2. General Cubicle Co.
 - 3. Imperial Fastener Co.
 - 4. Salisbury Industries.

2.2 CUBICLE TRACK

- A. Track: ULTRA CUBE, heavy duty extruded aluminum cubicle track by Inpro Clickeze or as reviewed substitute from one of the listed manufacturers. Anodized, extruded aluminum. Dimensions: height 1 1/8 inch, width 1 1/4 inch.
 - 1. Curved Track: Provide factory bent track sections with 12-inch radii to mate with straight track sections.
 - 2. Splicing Clamp: Of same material and finish as track.
- B. Track Mounting: Ceiling mounted; mechanically fastened directly to finished ceiling.

- C. Track Accessories: As recommended by the manufacturer to meet specific room wall and ceiling construction and assembly, provide end caps, connectors, end stops, coupling sleeves, wall brackets, and other accessories as required for secure and operational installation. Provide a quantity of carriers for 6-inch spacing the full length of the curtain plus 1 additional carrier.
 - 1. Carriers: One-piece nylon glide with chrome-plated steel hook. Ball bearing rollers.

2.3 CUBICLE CURTAINS

- A. Fabric: Playground, Lotus by InPro Corporation or reviewed substitute. 100 percent Trevira Polyester. Color and pattern as selected by the Architect. Provide drapery fabrics with the following characteristics:
 - 1. Fabrics are flame resistant and are identical to those that have passed NFPA 701 when tested by UL or another testing and inspecting agency acceptable to authorities having jurisdiction. Identify fabrics with appropriate markings of applicable testing and inspecting agency.
- B. Curtain Top: Not less than 20-inch- wide nylon mesh with 1/2-inch-holes. Overlap seams and double-lock stitch to body of curtain. Mesh to be suitable for and of the type used to prevent interference with the operation of the sprinkler system.
- C. Provide curtains fabricated to comply with the following requirements:
 - 1. Width: Equal to track length from which curtain is hung plus an amount required to provide the specified fullness and pleats or length plus 10 percent but not less than 12 inches whichever is greater.
 - 2. Length: Length as indicated. If not indicated, then 2 inches from top of HVAC units.
 - 3. Top Hem: 1-1/2 inches wide, triple thickness, reinforced with integral web, and double lock stitched.
 - a. Grommets: 2-piece, rolled-edge, solid brass and spaced not more than 6 inches o.c.
 - 4. Bottom and Side Hems: 1-1/2 inches wide, reinforced, triple thickness, and lock stitched.
 - 5. Seams: Not less than 1/2 inch wide, double turned and double lock stitched.
 - 6. Reinforcing: Reinforce at all stress points.
 - 7. Fullness: Double.
 - 8. Pleats: Pinched
 - 9. Lining: Blackout.
 - 10. Cornice: Sufficient height to conceal track. Reinforce so that cornice stands vertically without sagging.
- E. Curtain Tieback: At each termination.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Examine ceilings for suitable conditions where cubicle track is to be installed.
- B. Do not proceed until unsatisfactory conditions have been corrected.

3.2 INSTALLATION

- A. Install cubicle curtain track level and plumb, according to manufacturer's written instructions and original design.
- B. Install ceiling-mounted tracks at intervals of not less than 24 inches.
- C. Center fastener in track to ensure unencumbered carrier operation.

3.3 DEMONSTRATION

- A. Startup Services: Engage a factory-authorized service representative to demonstrate and train Owner's maintenance personnel as specified below.
 - 1. Train Owner's maintenance personnel on procedures and schedules related to changing curtains and preventive maintenance.
 - 2. Review data in the operation and maintenance manuals. Refer to Division 1 Section "Operation and Maintenance Data."
 - 3. Schedule training with Owner, through Architect, with at least 7 days' advance notice.

3.4 PROTECTION

- A. Protect installed track opening with a nonresidue adhesive tape to prevent debris from the ceiling finishing operation from impeding carrier operation.

END OF SECTION 10 21 23

FORM F3 BUILDING CODE ANALYSIS FORM

PROJECT: ADDITIONS & RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL DISTRICT: SPARTANBURG SCHOOL DISTRICT 7

SUBMITTAL: SCHEMATIC DESIGN DEVELOPMENT CONSTRUCTION DOCUMENT

DATE: 04/29/2021 CODE & EDITION: IBC 2018 GUIDE EDITION: OSF 2020

Table with columns for Designated Areas of Building (A, A-1, B-1, B-2) and rows for Construction Classification Type, Occupancy Group, and other building features.

*NOTE: SEE ALSO G011 FOR 2018 IBC CODE INFORMATION FOR LEVEL ONE AND LEVEL TWO WORK AND ADDITIONS TO THE EXISTING BUILDING.

Table for Building Area calculations, including Allowable Area Determination, Frontage Increase, and Allowable Area Per Story.

Table for Allowable Building Height & Allowable Number of Stories Above Grade Plane, showing height and story limits for different areas.

Table for Building Design Occupant Load, showing designated areas and their respective occupant loads.

Table for General Fire Protection Requirements, detailing fireproofing, fire walls, and fire barriers for various building elements.

ALARM & DETECTION, SUPPRESSION, and other fire safety system requirements.

Table for Other Fire and Life Safety Features, including designated areas and fire resistance ratings.

Table for Fire Resistance Rating of Building Elements, detailing fire ratings for structural frame, walls, and floors.

Table for Fire Resistance Rating of Building Elements (continued), covering nonbearing walls, roof construction, and fire walls.

Table for Fire Resistance Rating of Building Elements (continued), covering fire partitions, smoke barriers, and horizontal assemblies.

*IBC 2018 Table 706.4 footnote a, permits a 2 HR fire wall rating for Type II Construction.

Table for Flood Hazard Information and Flood Loads, including base flood elevation and design floor elevation.

Table for Structural Design Information, Area, detailing occupancy category and live load requirements.

Table for Soils & Site, including soil investigation requirements and soil classification.

Table for Structural Design Information, Building, detailing wind loads, seismic loads, and other structural parameters.

The Designer(s) of Record shall determine the material and/or work on the project requiring Special Inspections.

Table for Chapter 17 Inspections, detailing materials, type of inspection, and code references for various construction items.

Table for Chapter 17 Inspections (continued), detailing masonry, structural steel, and other construction details.

Table for Plumbing Information, detailing water system, sanitary sewer system, and minimum plumbing fixtures.

Table for Fire Service Information, detailing fire department connection, backflow, and fire hydrant flow test.

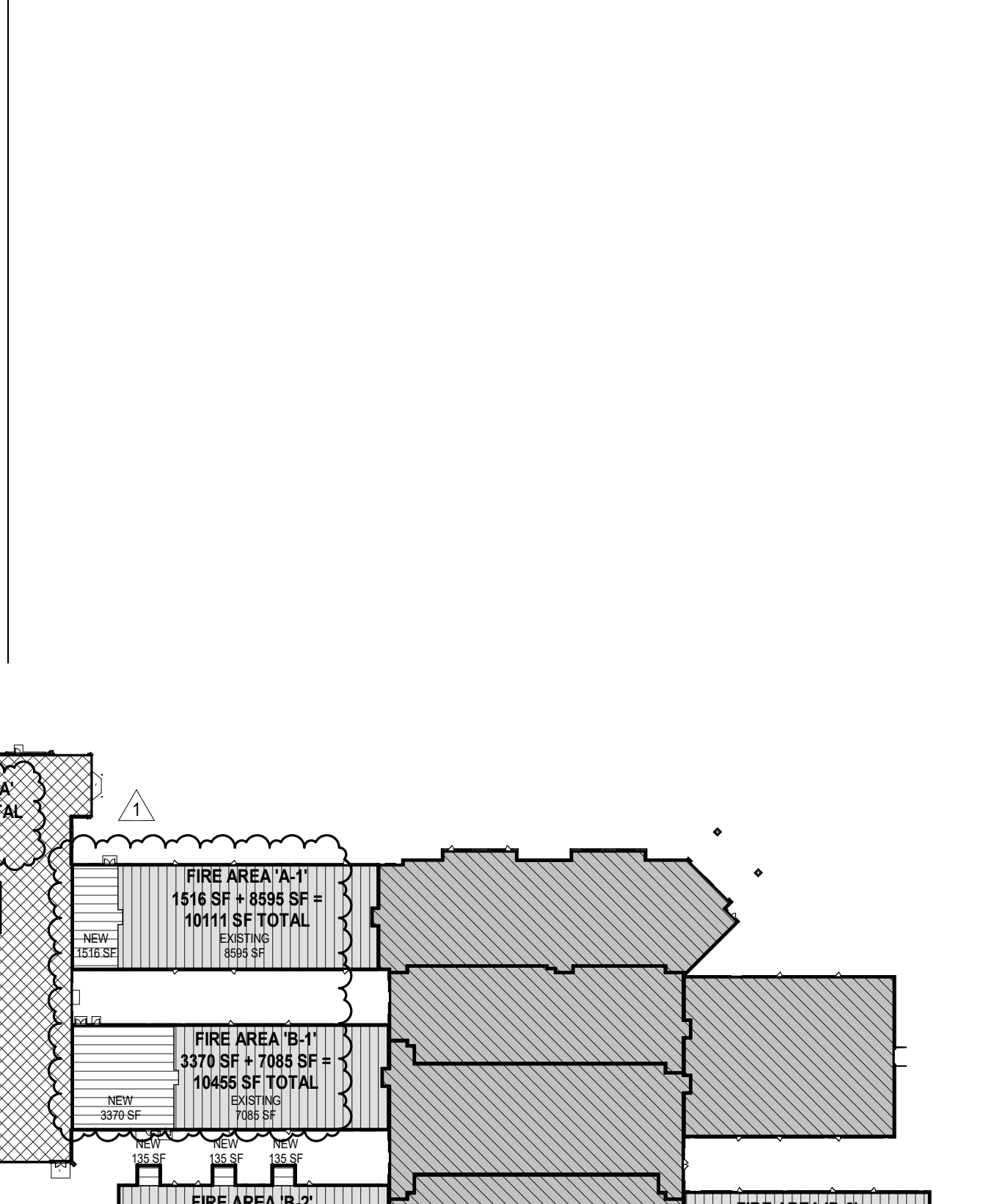
Table for Mechanical Information, detailing building location, climate zone, and indoor design temperature.

Table for Electrical Information, detailing service transformer, electrical service information, and emergency service information.

Table for Energy Information, detailing insulation and glazing requirements.

Table for Plumbing Information (continued), detailing water closets, lavatories, showers, and drinking fountains.

Table for Code Required Building Fixture Counts, detailing required fixtures for different occupancy types.



mcmillan pazdan smith ARCHITECTURE logo and contact information.

SPARTANBURG SCHOOL DISTRICT 7 ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

CONSTRUCTION DOCUMENTS 04/19/2021 SHEET TITLE: F3 FORM SHEET NO. G010

PLUMBING FIXTURE SUMMARY

CLASSIFICATION	EDUCATIONAL 'E'			TOTAL FIXTURES PROVIDED
	OCCUPANT LOAD	OCCUPANTS	RATIO REQUIRED	
WATER CLOSETS	910	1 / 50	18.2	20 WC + 1 U*
LAVATORIES	910	1 / 50	18.2	21 LAVS*
DRINKING FOUNTAINS	910	1 / 100	10	10 DF
SERVICE SINK	-	-	1	1 SS

* INCLUDES 15 INDIVIDUAL TOILET ROOMS LOCATED WITHIN CLASSROOMS/INSTRUCTION AREAS; 2 INDIVIDUAL TOILET ROOMS WITHIN STAFF WORKROOM; AND 1 INDIVIDUAL TOILET ROOM IN NURSE AREA ALONG WITH THE PUBLIC ACCESSIBLE MEN AND WOMEN GROUP TOILETS THAT CONTAIN 3 FIXTURES EACH.

LIFE SAFETY LEGEND

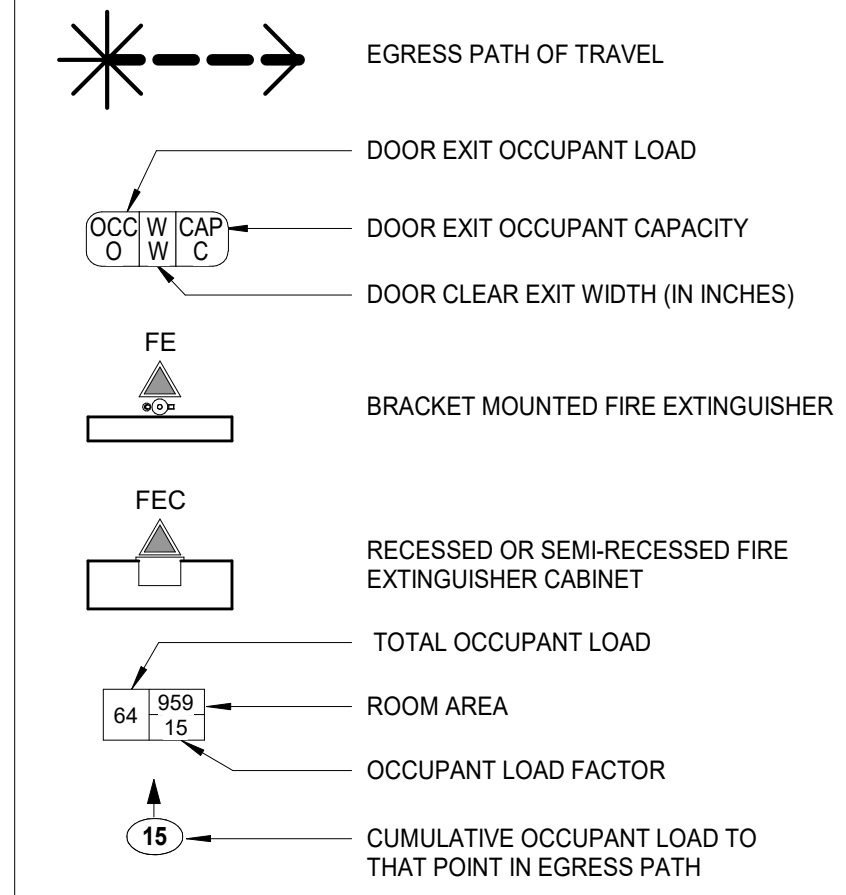


TABLE 1004.5, IBC 2018
MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

FUNCTION OF SPACE	OCCUPANT LOAD FACTOR
Accessory storage areas, mechanical equipment room	300 gross
Agricultural building	300 gross
Aircraft hangars	500 gross
Airport terminal	
Baggage claim	20 gross
Baggage handling	300 gross
Concourse	100 gross
Waiting areas	15 gross
Assembly	
Gaming floors (keno, slots, etc.)	11 gross
Exhibit gallery and museum	30 net
Assembly with fixed seats	See Section 1004.8
Assembly without fixed seats	
Concentrated (chairs only—not fixed)	7 net
Standing space	5 net
Unconcentrated (tables and chairs)	15 net
Bowling centers, allow 5 persons for each lane including 15 feet of runway, and for additional areas	7 net
Business areas	
Concentrated business use areas	See Section 1004.8
Courts—other than fixed seating areas	40 net
Day care	35 net
Dormitories	50 gross
Educational	
Classroom area	20 net
Shops and other vocational room areas	50 net
Exercise rooms	50 gross
Group H-S fabrication and manufacturing areas	200 gross
Industrial areas	100 gross
Institutional areas	
Inpatient treatment areas	240 gross
Outpatient areas	100 gross
Sleeping areas	120 gross
Kitchens, commercial	200 gross
Library	
Reading rooms	50 net
Stack area	100 gross
Locker rooms	50 gross
Mail buildings—covered and open	See Section 402.8.2
Mercantile	
Storage, stock, shipping areas	60 gross
300 gross	300 gross
Parking garages	200 gross
Residential	
Skating rinks, swimming pools	50 gross
Rink and pool	15 gross
Decks	15 net
Stages and platforms	15 net
Warehouses	500 gross

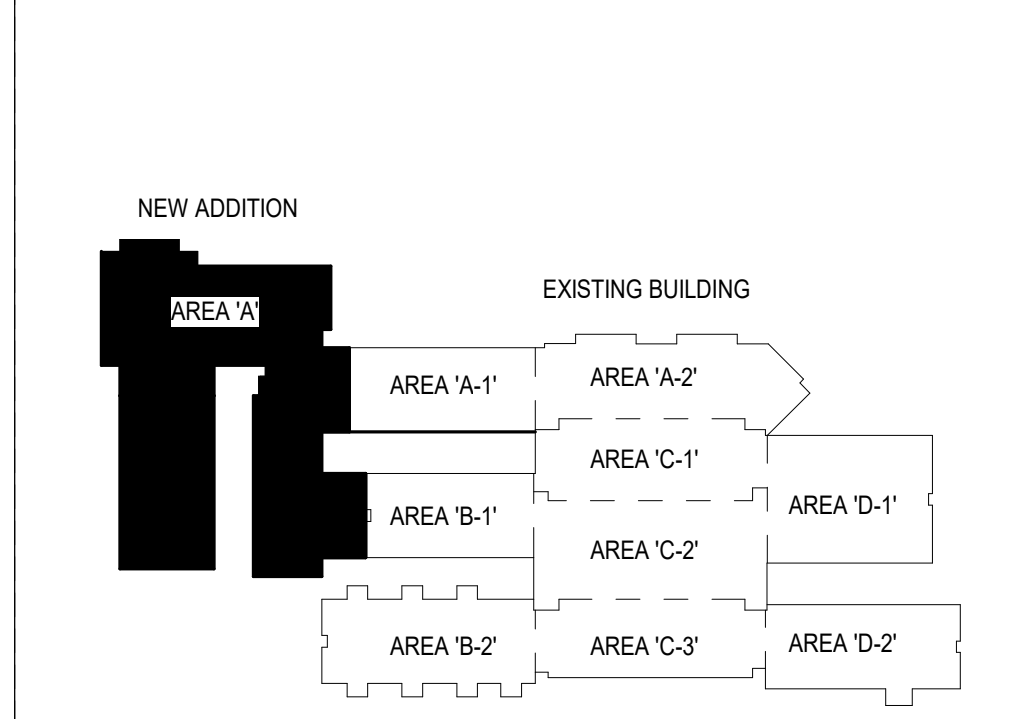
LIFE SAFETY TRAVEL DISTANCES

Path	Travel Distance
PATH 'A'	167'
PATH 'B'	148'
PATH 'C'	124'
PATH 'D'	185'
PATH 'E'	94'
PATH 'F'	87'
PATH 'G'	49'
PATH 'H'	95'
PATH 'I'	167'
PATH 'J'	79'

FLOOR AREA SCHEDULE (GROSS FLOOR AREA, IBC 2018)

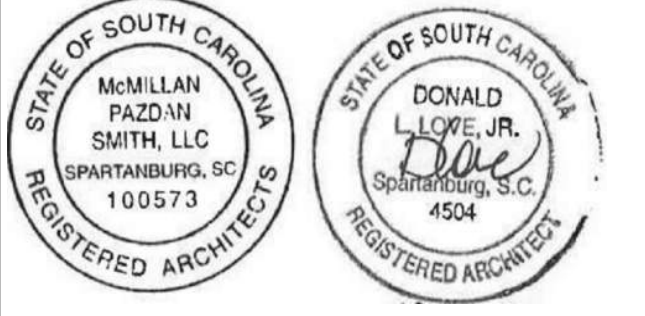
LEVEL	AREA
FIRST FLOOR	52,198 SF
TOTAL GSF:	52,198 SF

KEY PLAN



CONSULTANT LOGO

SEALS



SPARTANBURG SCHOOL DISTRICT 7
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

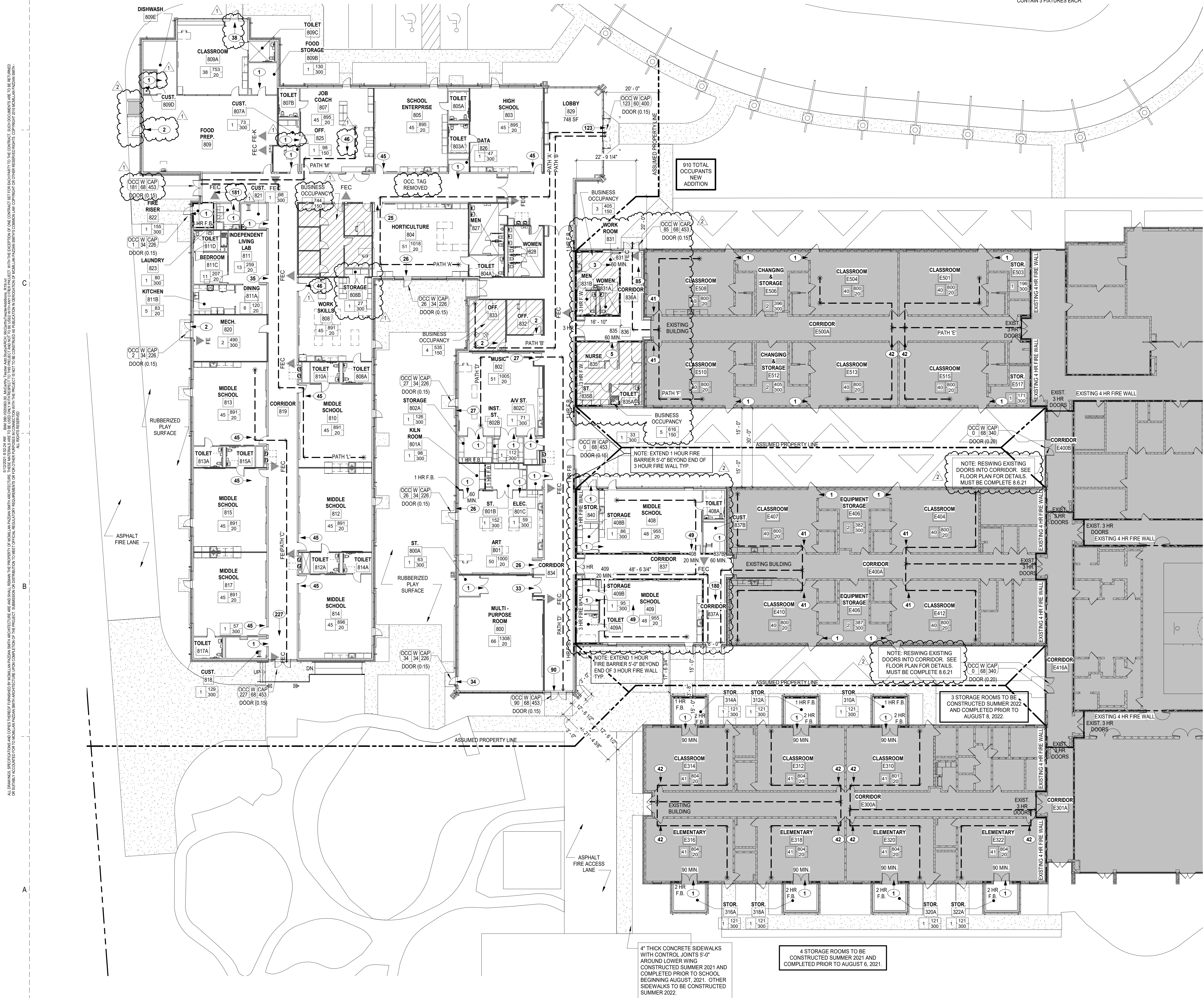
SHEET ISSUE:
NO. DATE DESCRIPTION BY
1 04/29/2021 Addendum No. 1 DLL
2 05/12/2021 Addendum No. 2 DLL

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JMO, JSW, DDC

SHEET TITLE: OVERALL LIFE SAFETY PLAN

SHEET NO. PROJECT NO. 020063.00

G110



OVERALL LIFE SAFETY PLAN
1/16" = 1'-0"

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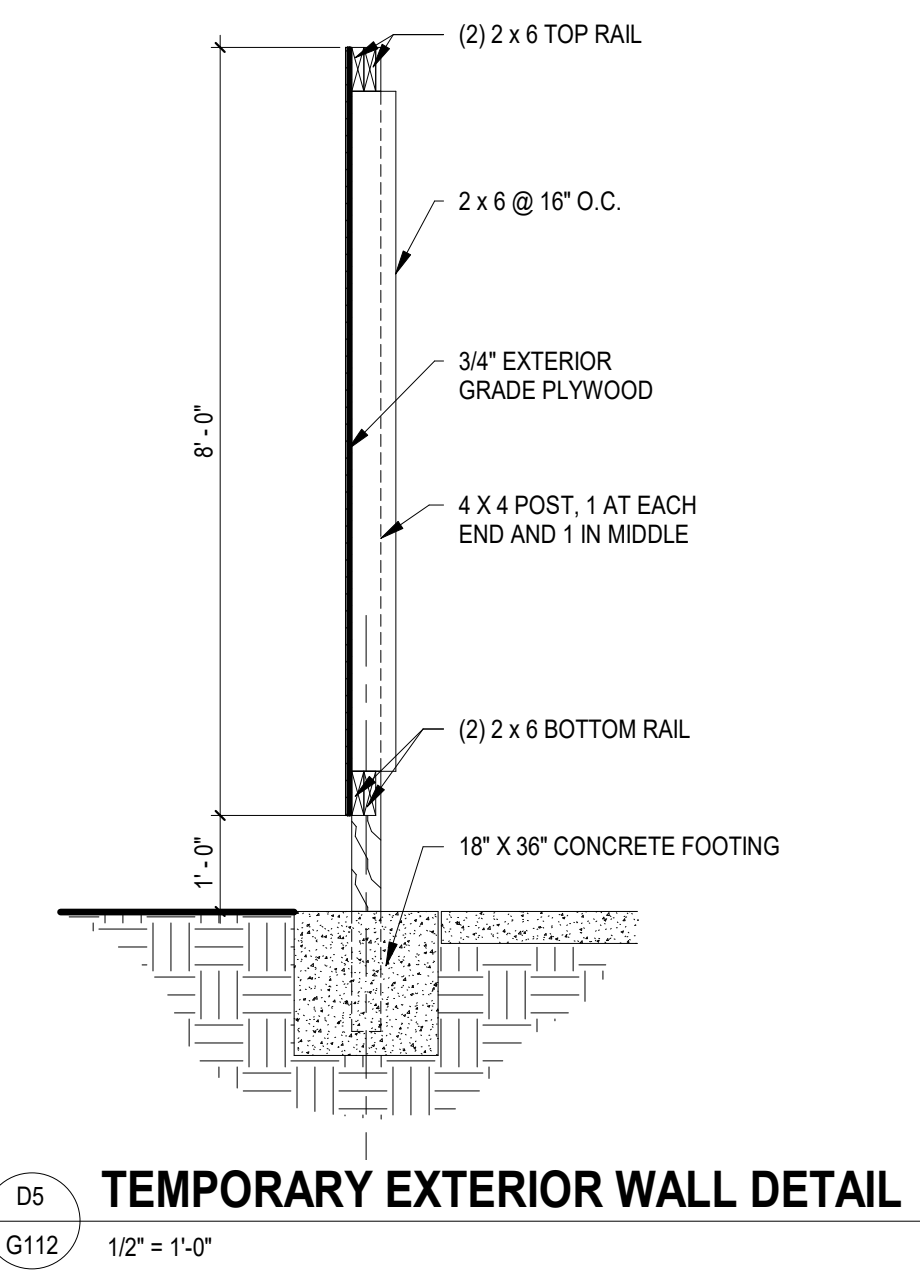
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS	04/19/2021
PRINCIPAL IN CHARGE:	DLL
PROJECT ARCHITECT:	DLL
DRAWN BY:	JMO, JSW, D.C.

SHEET TITLE:
**TEMPORARY EGRESS
 PLAN DURING
 CONSTRUCTION**

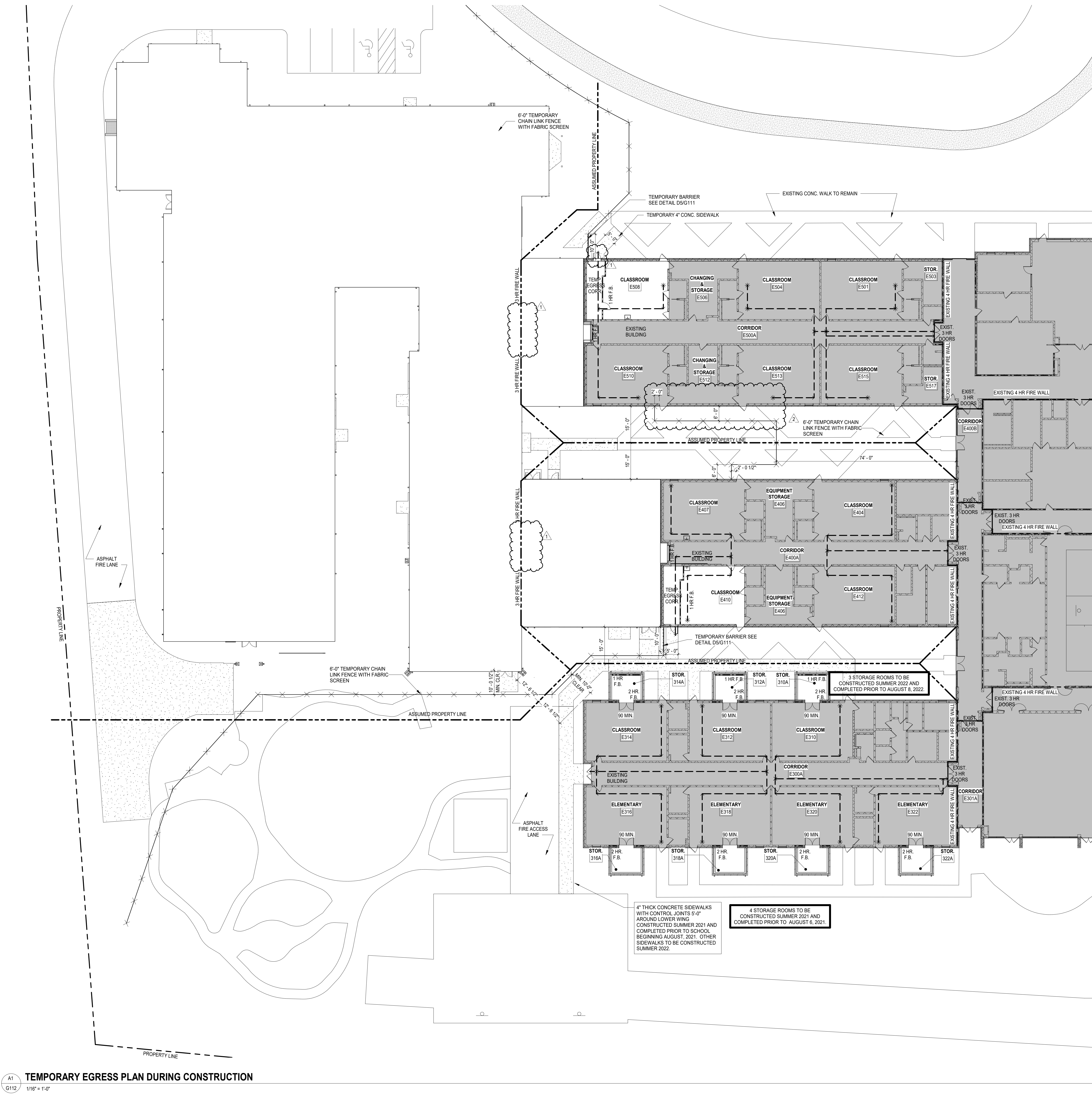
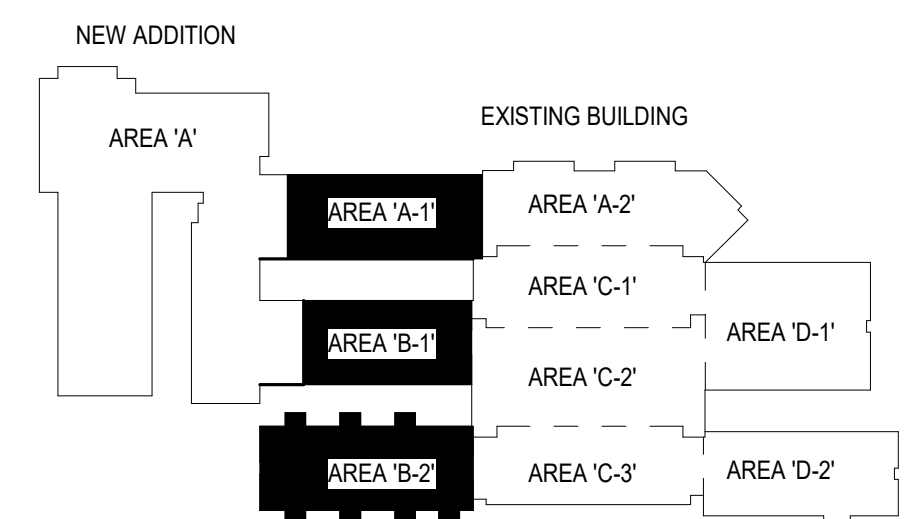
SHEET NO.	PROJ. NO. 020063.00
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TEMPORARY EXTERIOR WALL DETAIL
 1/2" = 1'-0"

KEY PLAN

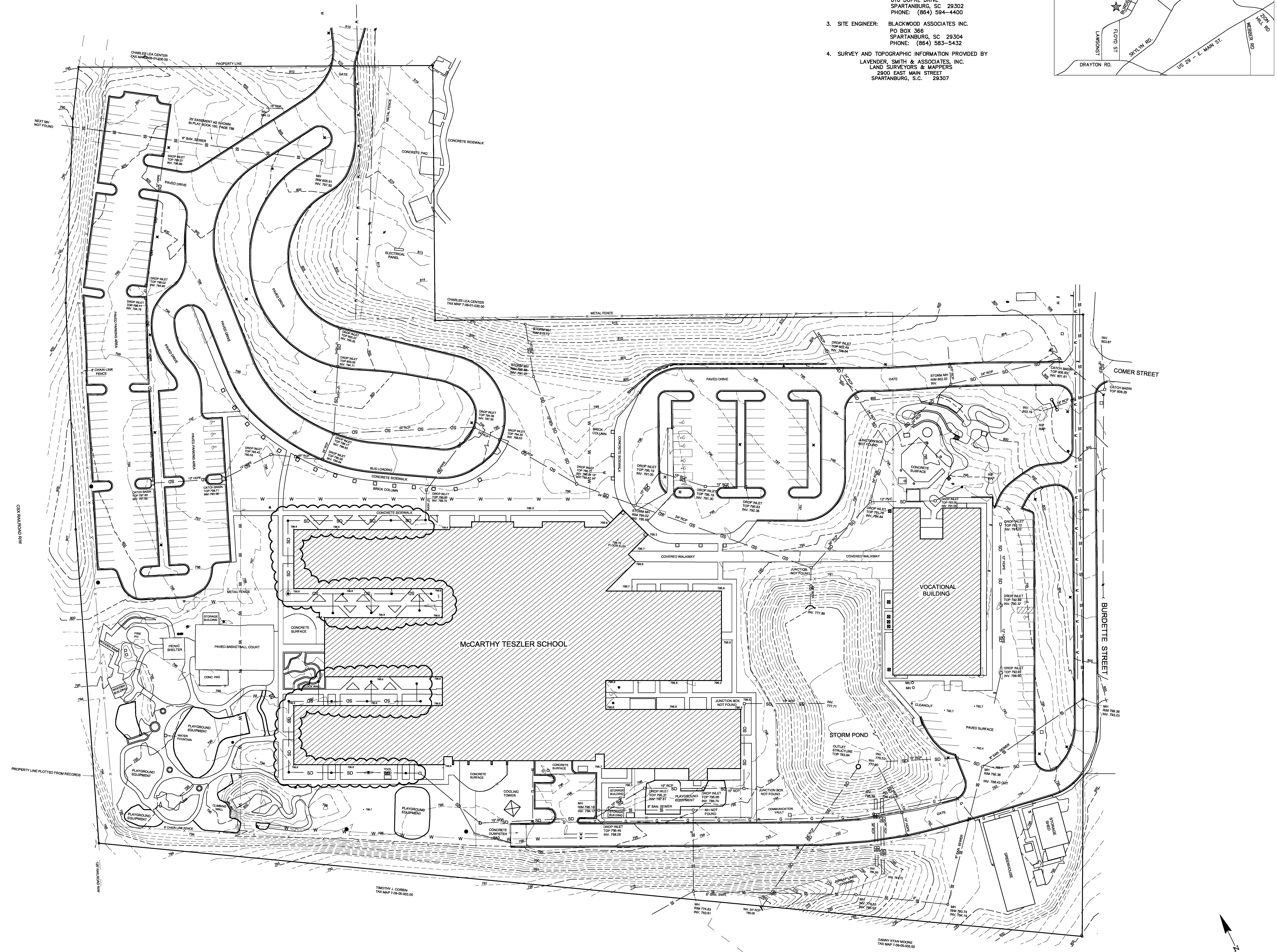
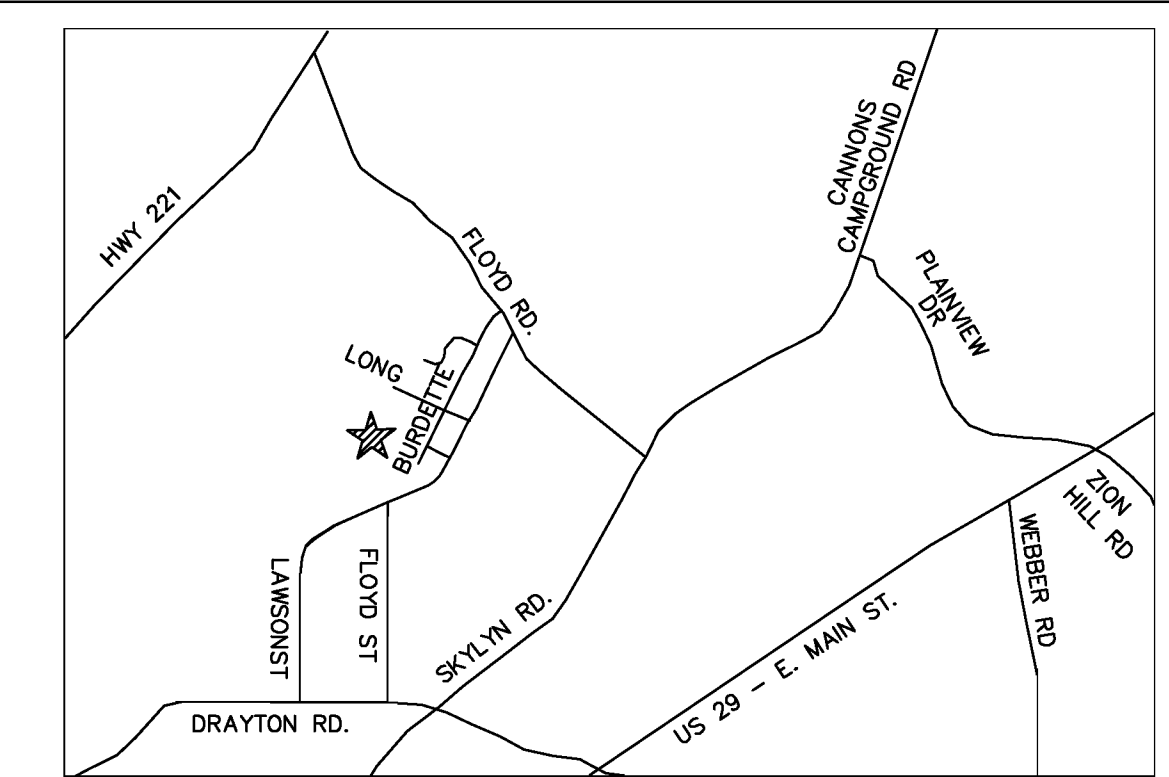


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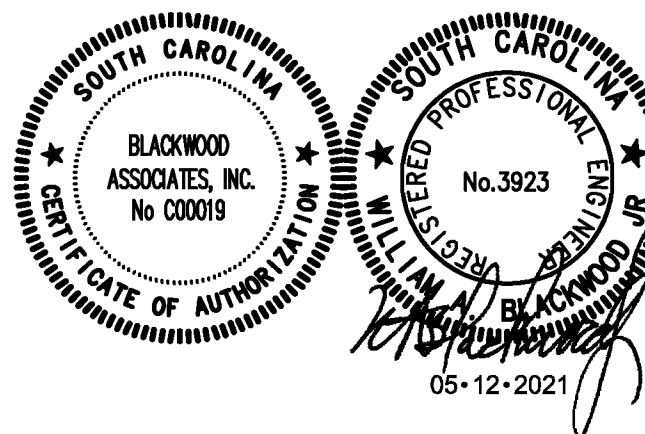
A1
G112
 1/16" = 1'-0"

GENERAL NOTES:

1. THIS TRACT CONTAINS 16.27 AC.
BLOCK MAP: 7-09-01-030.03
2. OWNER CONTACT: SPARTANBURG COUNTY SCHOOL DISTRICT SEVEN
DR. THOMAS WHITE
810 DUPRE DRIVE
SPARTANBURG, SC 29302
PHONE: (864) 594-4400
3. SITE ENGINEER: BLACKWOOD ASSOCIATES INC.
PO BOX 366
SPARTANBURG, SC 29304
PHONE: (864) 583-5432
4. SURVEY AND TOPOGRAPHIC INFORMATION PROVIDED BY
LAVENDER, SMITH & ASSOCIATES, INC.
LAND SURVEYORS & MAPPERS
2500 EAST MAIN STREET
SPARTANBURG, S.C. 29307



BAI
BLACKWOOD ASSOCIATES INC.
CONSULTING ENGINEERS
PO BOX 366
SPARTANBURG, SC 29304
864-583-5432 FAX-583-5434



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

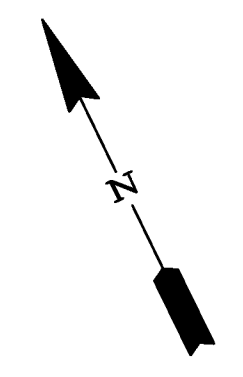
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	ADDENDUM NO. 1	WAB
2	05/12/2021	ADDENDUM NO. 2	WAB

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB

SHEET TITLE:
EXISTING CONDITIONS

SHEET NO. PROJ. NO.
020063.00

CV1.1



1 INCH = 40 FEET

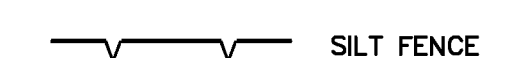






D
C
B
A

SEQUENCE OF EVENTS

A PRE-CONSTRUCTION CONFERENCE MUST BE HELD WITH SPARTANBURG COUNTY AT LEAST 48 HOURS PRIOR TO BEGINNING ANY LAND DISTURBING ACTIVITIES. THE OWNER, DESIGN ENGINEER AND CONTRACTOR MUST BE PRESENT AND HAVE OBTAINED THE STORMWATER PERMIT, STAMPED APPROVED PLANS AND THE N.O.I APPROVED LETTER FROM SCDEEC BEFORE CALLING SPARTANBURG COUNTY AT 864-595-5320 TO SCHEDULE THIS MEETING.

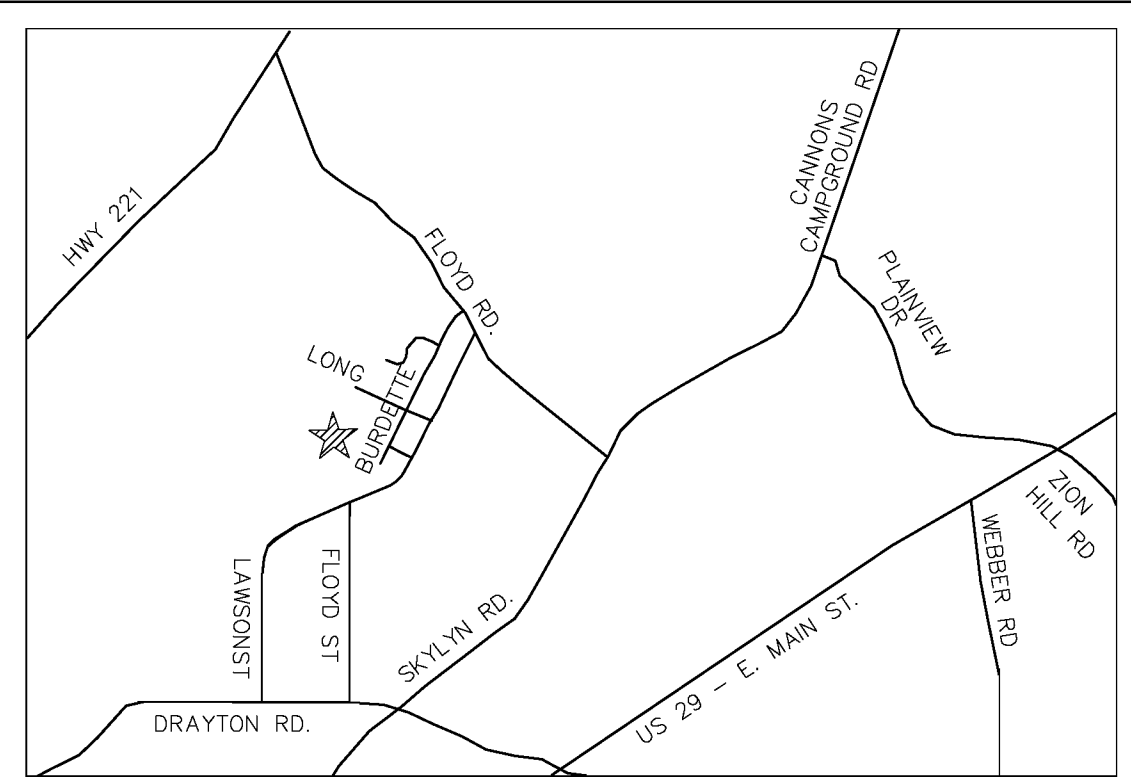
- RECEIVE NPDES COVERAGE FROM SCDEEC.
- HAVE PRE-CONSTRUCTION (CEPSC) CERTIFICATION MEETING.
- NOTIFY SPARTANBURG COUNTY ENGINEERING 48 HOURS PRIOR TO ANY LAND DISTURBING ACTIVITIES.
- PHASE I: INITIAL EROSION CONTROL (CV1.2)**
 - CLEARING AND GRUBBING / DEMOLITION ONLY AS NECESSARY FOR INSTALLATION OF PERIMETER CONTROLS (EG. SILT FENCE AND CONSTRUCTION ENTRANCE).
 - REPAIR & MAINTAIN EXISTING SEDIMENT TRAP S1 UNTIL PLAYING FIELD GRADED.
 - INSTALL PERIMETER CONTROLS.
 - BEGIN SELECT DEMOLITION. DO NOT REMOVE EXISTING EROSION CONTROL MEASURES UNTIL GRADING OPERATIONS REQUIRE REMOVAL.
- PHASE II: GRADING (CV1.2 & CV1.1)**
 - CONTINUE & COMPLETE CLEARING AND GRUBBING.
 - BEGIN MASS GRADING OPERATIONS.
 - INSTALL SWALES / INSTALL SLOPE DRAINS / PIPE AS REQUIRED TO DIRECT RUNOFF TO CONTROL MEASURES.
 - INSTALL NEW STORM DRAINAGE.
 - PLACE INLET PROTECTION AROUND ALL CATCH BASINS.
 - COMPLETE REMAINING GRADING, STORM DRAINAGE, AND SITE UTILITIES.
 - COMPLETE BUILDING AND PAVEMENT CONSTRUCTION.
- PHASE III: STABILIZATION (CV3.1)**
 - APPLY GRASSING IN ACCORDANCE WITH GRASS NOTES.
 - INSPECT AND MAINTAIN ALL EROSION CONTROL AS INDICATED IN GRADING NOTES.
 - PERMANENT GRASS SHALL BE INSTALLED FOR ALL AREAS AT FINAL GRADE AND IN SEASON INDICATED ON GRASS NOTES.
 - AFTER COMPLETION OF CONSTRUCTION AND THE SITE IS STABILIZED:
 - REMOVE ALL ACCUMULATED SEDIMENT FROM SEDIMENT TRAPPING MEASURES AND SPREAD EVENLY ACROSS THE SITE.
 - REMOVE ALL TEMPORARY EROSION CONTROL MEASURES, SMOOTH AREAS AND APPLY GRASSING PER GRASS NOTES/SPECIFICATIONS.
 - SUBMIT THE NOTICE OF TERMINATION TO SPARTANBURG COUNTY.

EROSION CONTROL LEGEND

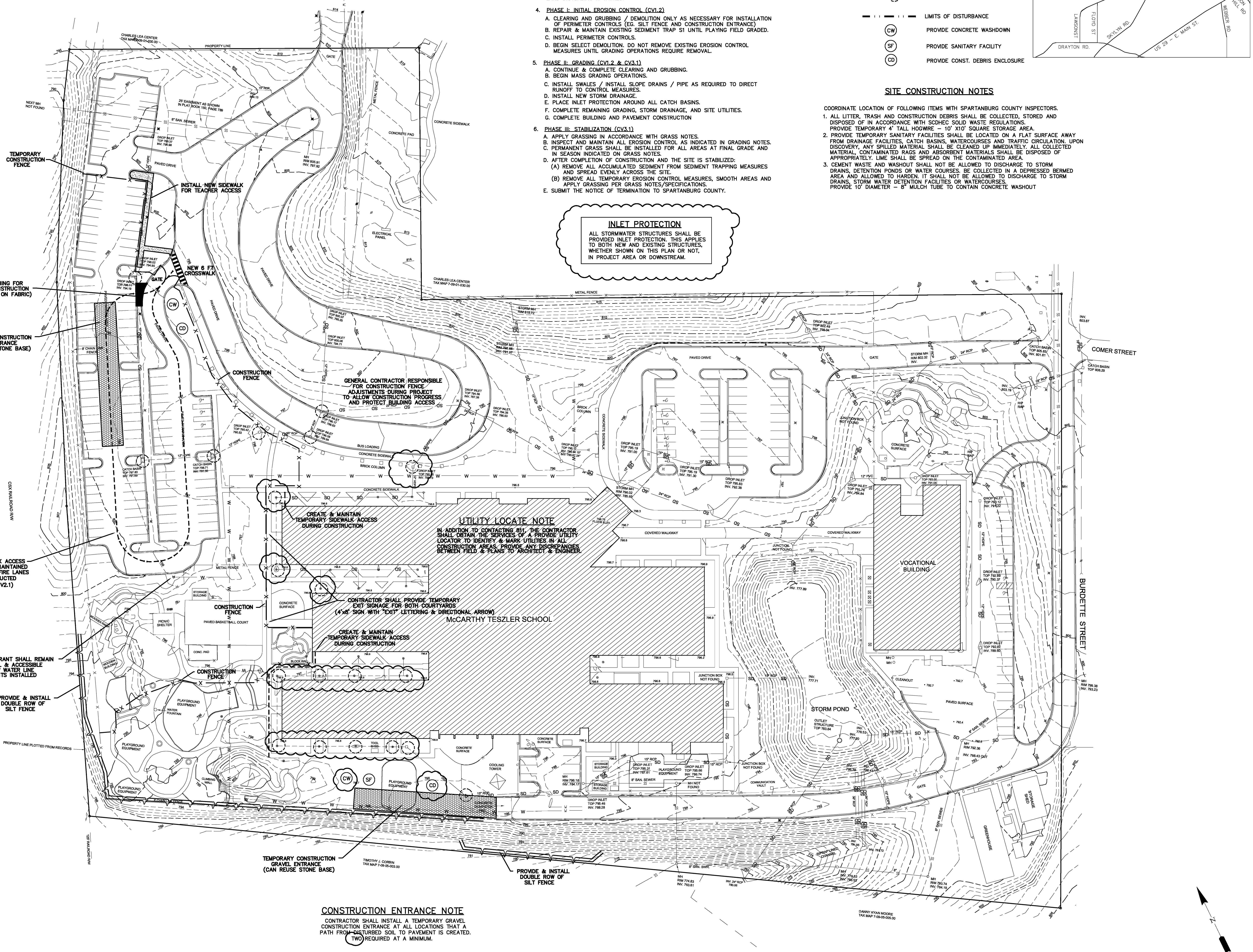
-  SILT FENCE
-  TEMPORARY GRAVEL CONSTRUCTION ENTRANCE
-  INLET PROTECTION
-  LIMITS OF DISTURBANCE
-  PROVIDE CONCRETE WASHDOWN
-  PROVIDE SANITARY FACILITY
-  PROVIDE CONST. DEBRIS ENCLOSURE

SITE CONSTRUCTION NOTES

- COORDINATE LOCATION OF FOLLOWING ITEMS WITH SPARTANBURG COUNTY INSPECTORS.
- ALL LITTER, TRASH AND CONSTRUCTION DEBRIS SHALL BE COLLECTED, STORED AND DISPOSED OF IN ACCORDANCE WITH SCDEEC SOLID WASTE REGULATIONS. PROVIDE TEMPORARY 4' TALL HOGWIRE - 10' X10' SQUARE STORAGE AREA.
 - PROVIDE TEMPORARY SANITARY FACILITIES SHALL BE LOCATED ON A FLAT SURFACE AWAY FROM DRAINAGE FACILITIES, CATCH BASINS, WATERCOURSES AND TRAFFIC CIRCULATION. UPON DISCOVERY, ANY SPILLED MATERIAL SHALL BE CLEANED UP IMMEDIATELY. ALL COLLECTED MATERIAL, CONTAMINATED RAGS AND ABSORBENT MATERIALS SHALL BE DISPOSED OF APPROPRIATELY. LIME SHALL BE SPREAD ON THE CONTAMINATED AREA.
 - CEMENT WASTE AND WASHOUT SHALL NOT BE ALLOWED TO DISCHARGE TO STORM DRAINS, DETENTION PONDS OR WATER COURSES. BE COLLECTED IN A DEPRESSED BERMED AREA AND ALLOWED TO HARDEN. IT SHALL NOT BE ALLOWED TO DISCHARGE TO STORM DRAINS, STORM WATER DETENTION FACILITIES OR WATERCOURSES. PROVIDE 10' DIAMETER - 8" MULCH TUBE TO CONTAIN CONCRETE WASHOUT

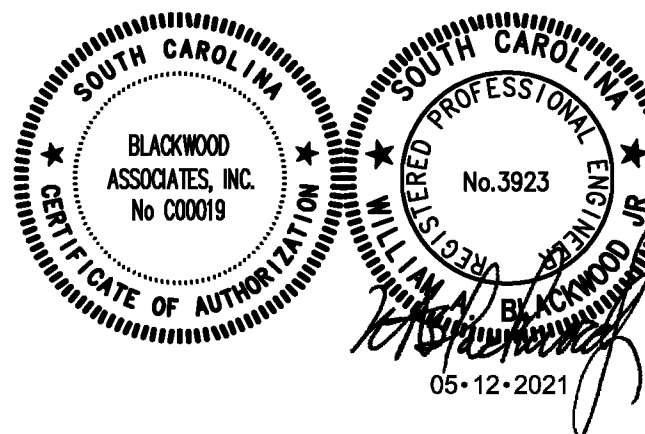


INLET PROTECTION
ALL STORMWATER STRUCTURES SHALL BE PROVIDED INLET PROTECTION. THIS APPLIES TO BOTH NEW AND EXISTING STRUCTURES, WHETHER SHOWN ON THIS PLAN OR NOT, IN PROJECT AREA OR DOWNSTREAM.



UTILITY LOCATE NOTE
IN ADDITION TO CONTACTING 811, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROVIDE UTILITY LOCATOR TO IDENTIFY & MARK UTILITIES IN ALL CONSTRUCTION AREAS. PROVIDE ANY DISCREPANCIES BETWEEN FIELD & PLANS TO ARCHITECT & ENGINEER.

CONSTRUCTION ENTRANCE NOTE
CONTRACTOR SHALL INSTALL A TEMPORARY GRAVEL CONSTRUCTION ENTRANCE AT ALL LOCATIONS THAT A PATH FROM UNDISTURBED SOIL TO PAVEMENT IS CREATED. TWO REQUIRED AT A MINIMUM.



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:	NO.	DATE	DESCRIPTION	BY
	1	04/29/2021	ADDENDUM NO. 1	WAB
	2	05/12/2021	ADDENDUM NO. 2	WAB

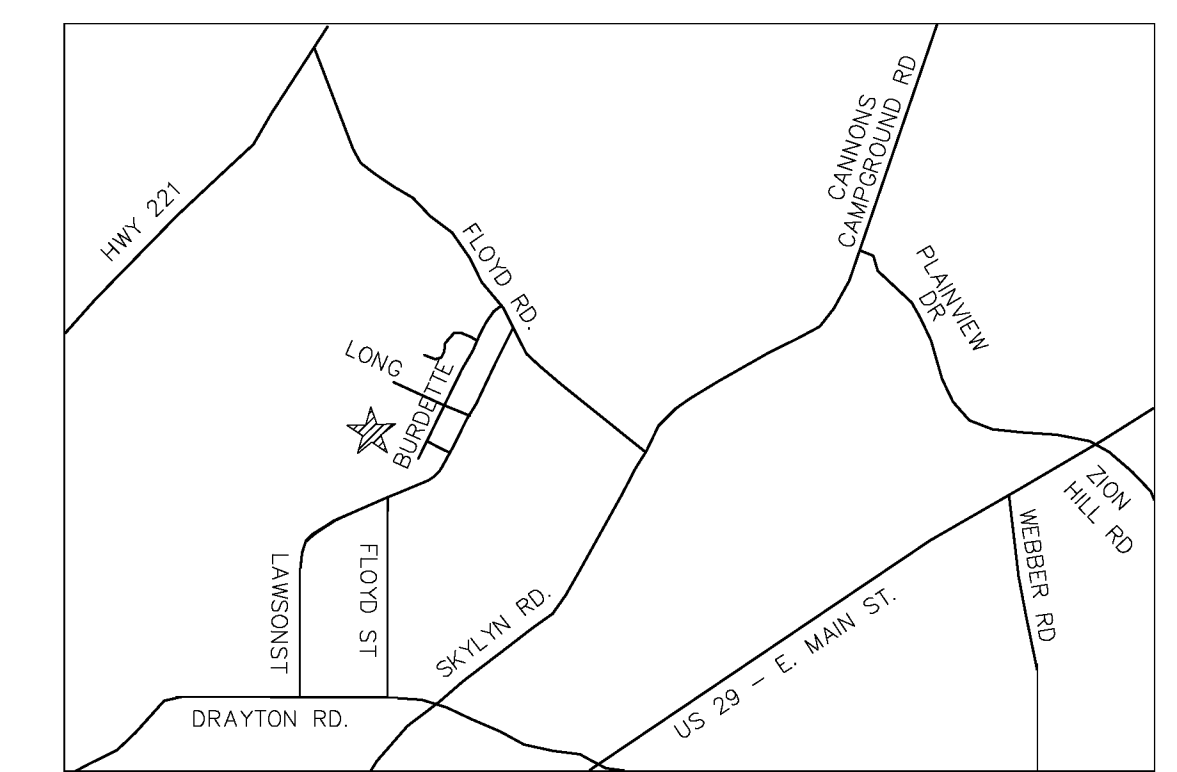
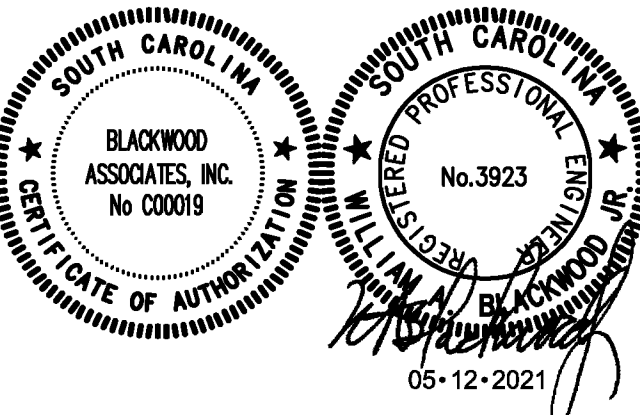
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB

SITE PREPARATION PLAN

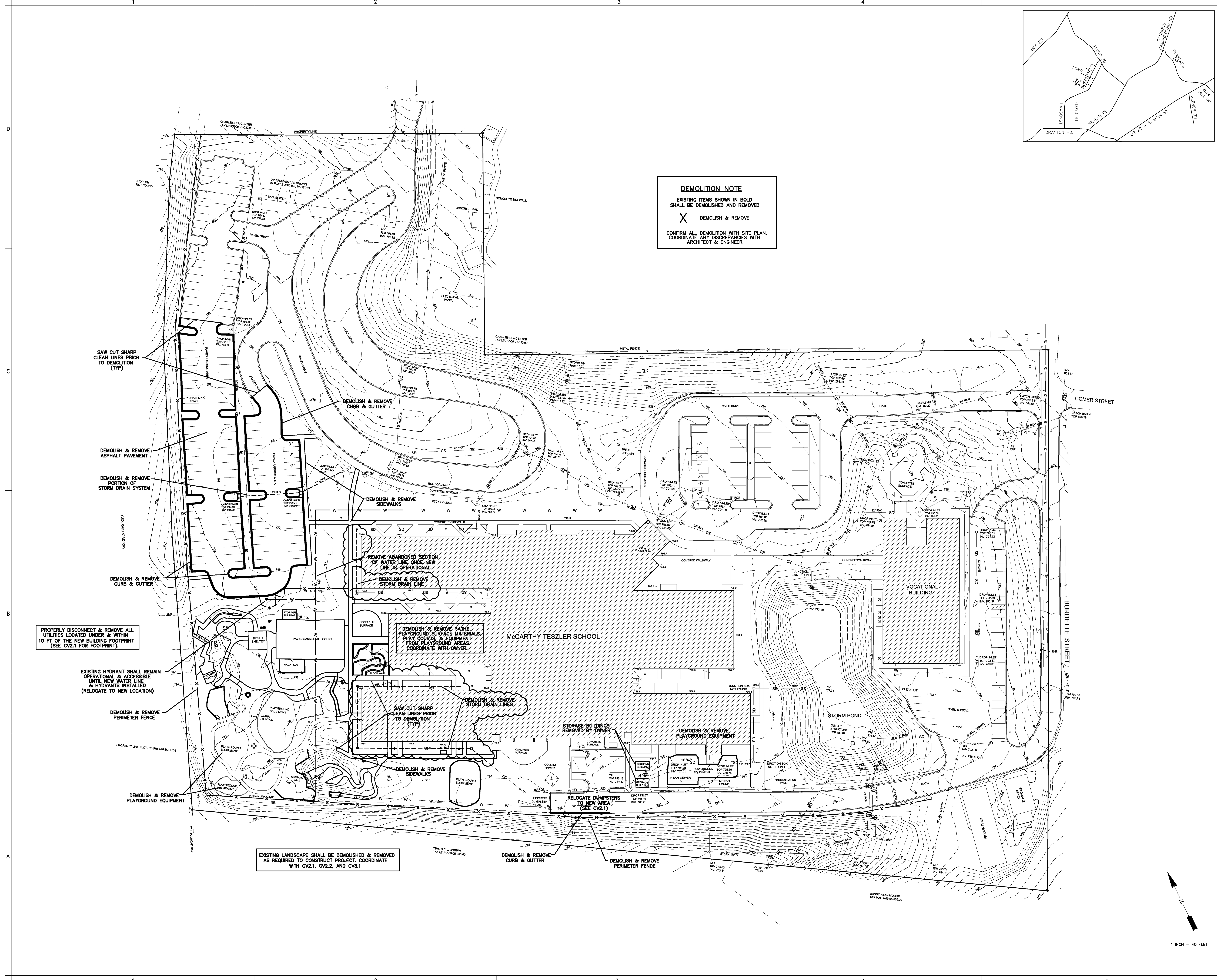
SHEET NO. PROJ. NO. 020063.00

CV1.2

1 INCH = 40 FEET



DEMOLITION NOTE
EXISTING ITEMS SHOWN IN BOLD SHALL BE DEMOLISHED AND REMOVED
X DEMOLISH & REMOVE
CONFIRM ALL DEMOLITION WITH SITE PLAN. COORDINATE ANY DISCREPANCIES WITH ARCHITECT & ENGINEER.



SPARTANBURG SCHOOL DISTRICT 7
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CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB

SHEET TITLE:
**SITE
DEMOLITION
PLAN**

SHEET NO. PROJ. NO.
020063.00

CV1.3

1 INCH = 40 FEET

HATCHING LEGEND

[Hatched Pattern]	PROPOSED BUILDING
[Dotted Pattern]	CONCRETE (SIDEWALKS, PADS, ETC)
[Cross-hatched Pattern]	SYNTHETIC PLAYGROUND SURFACE
[Horizontal Line Pattern]	STANDARD DUTY ASPHALT PAVEMENT

CAD FOR STAKE-OUT PURPOSES

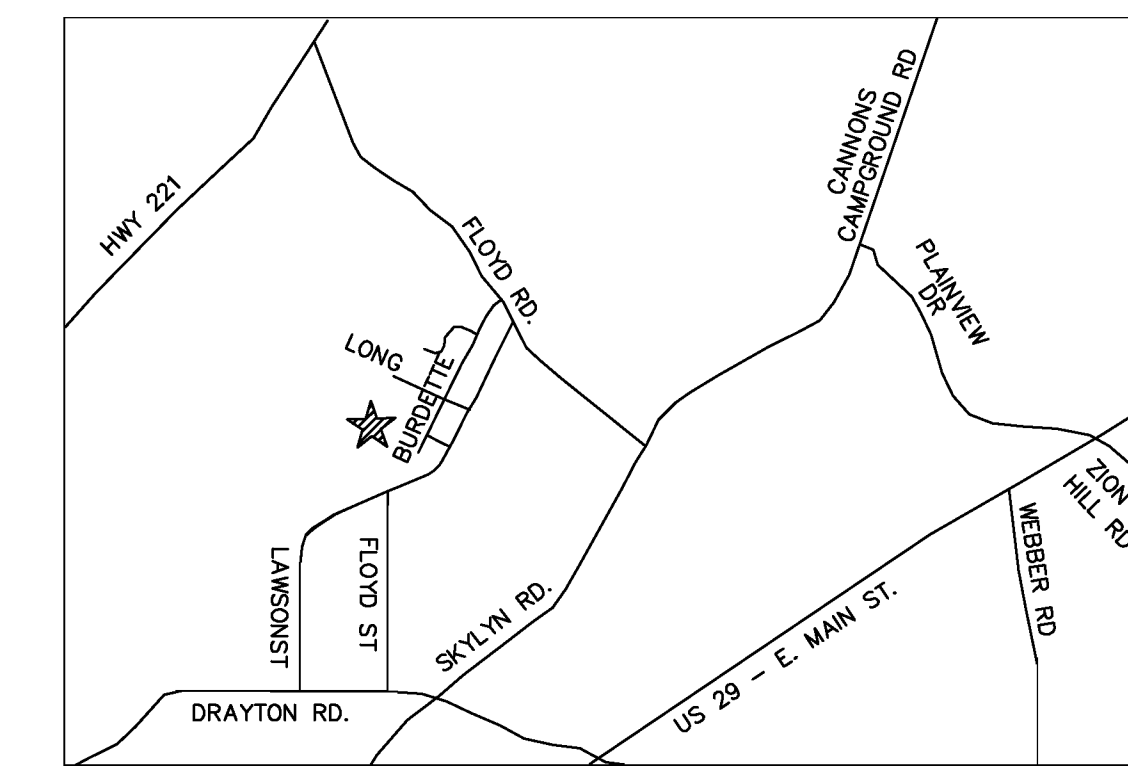
THE GENERAL CONTRACTOR SHALL BE PROVIDED AN ELECTRONIC COPY OF THIS AUTOCAD DRAWING TO ASSIST STAKEOUT BY SURVEYOR. DIMENSIONS ARE PROVIDED FOR FIELD CHECKS, NOT LAYOUT PURPOSES. CONTRACTOR SHALL REFER TO ARCHITECTURAL DRAWINGS FOR LAYOUT ASSISTANCE SINCE ADDITION IS CONNECTED TO EXISTING STRUCTURE.

SPECIFICATIONS/NOTES

- CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND LINES AND UTILITIES BEFORE EXCAVATION. ADVISE ENGINEER IMMEDIATELY OF ANY VARIATIONS. ALL EXCAVATIONS NEAR THESE LINES SHALL BE WITH CAUTION. CONTRACTOR SHALL VERIFY ALL DIMENSIONS OF EXISTING CONSTRUCTION WHICH AFFECTS NEW CONSTRUCTION. CONTRACTOR RESPONSIBLE FOR ANY DAMAGE DURING CONSTRUCTION AND/OR RELOCATION AS NECESSARY AT CONTRACTOR'S EXPENSE.
- CONTRACTOR SHALL VERIFY ALL WORK PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY. DISCONTINUE WORK IN ALL AFFECTED AREAS UNTIL RESOLVED BY ENGINEER.
- EARTHWORK SHALL BE TO THE LINES AND GRADES SHOWN. THE CONTRACTOR SHALL PROOF-ROLL THE CONSTRUCTION AREA WITH HEAVY-PNEUMATIC EQUIPMENT. ALL SOFT SPOTS SHALL BE UNDERCUT AND RECOMPACTED WITH SUITABLE STRUCTURAL FILL MATERIAL. ALL FILL COMPACTION SHALL BE 95% OF MAXIMUM PER ASTM D-698 (STANDARD PROCTOR). ALL MATERIAL WITHIN 18 INCHES OF PAVEMENT AND BUILDING SUBGRADE SHALL BE COMPACTED TO 98% OF MAXIMUM. FILL MATERIAL SHALL NOT CONTAIN ORGANIC MATERIAL, DEBRIS OR ROCKS, WHERE FILL IS TO BE PLACED. ALL EXISTING VEGETATION, ROOTS AND OTHER ORGANIC MATTER DOWN TO 12 INCHES BELOW EXISTING GRADE SHALL BE STRIPPED AND DISPOSED OF AS DIRECTED. FILL SHALL BE PLACED IN SUCCESSIVE LAYERS OF NOT MORE THAN 8 INCHES LOOSE THICKNESS. EACH LAYER SHALL BE SPREAD EVENLY AND COMPACTED AS SPECIFIED BEFORE THE NEXT LAYER IS PLACED.
- THE CONTRACTOR SHALL REMOVE ALL DEBRIS INCLUDING PAVEMENT, CONCRETE, AND UNSUITABLE MATERIAL FROM THE SITE. ALL AREAS UNDER EXISTING PAVEMENT SHALL BE SCARIFIED BEFORE PLACING STRUCTURAL FILL MATERIAL.
- CATCH BASINS SHALL BE IN ACCORDANCE WITH CURRENT SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS AND SCDOT STANDARD DRAWINGS FOR ROAD CONSTRUCTION.
- STORM SEWER SHALL BE LAID ON A MINIMUM TYPE "C" BEDDING FOR DEPTHS UP TO 21', FOR DEPTHS GREATER THAN 21' USE TYPE "B" BEDDING. PLACE BELL OR BED GROOVE END UP GRADE WITH THE SPOOT OR TONGUE FULLY INSERTED. EACH JOINT SHALL BE CHECKED FOR ALIGNMENT AND GRADE AS THE WORK PROCEEDS. APPROVED BACKFILL MATERIAL SHALL BE PLACED CAREFULLY ALONG THE PIPE AND COMPACTED UNDER HANDS. MATERIAL SHALL BE BROUGHT UP EVENLY IN LAYERS ON BOTH SIDES OF THE PIPE AND TO ONE FOOT ABOVE THE TOP OF THE PIPE. MATERIAL SHALL BE PLACED IN A MANNER SO AS NOT TO DISPLACE OR DAMAGE THE INSTALLED PIPE. BACKFILL SHALL BE PLACED AND COMPACTED IN LAYERS AS SPECIFIED.
- REINFORCED CONCRETE PIPE (RCP) SHALL BE: CLASS III - DEPTHS 0'-14" CLASS "C" BEDDING CLASS IV - DEPTHS 14.1'-21" CLASS "C" BEDDING CLASS V - DEPTHS 21.1'-27" CLASS "B" BEDDING CLASS VI - DEPTHS 27.1'-41" CLASS "B" BEDDING. ALL RCP SHALL HAVE BUTYL RUBBER GASKET SEALANT UNLESS OTHERWISE SPECIFIED. JOINTS AND FITTINGS / ACCESSORIES SHALL BE COMPATIBLE WITH PIPE. SEE BEDDING DETAILS.
- HDPPE STORM SEWER LINES (DOWNSPOUT COLLECTION SYSTEM ONLY) SHALL BE ASTM 3350 WITH SMOOTH INTERIOR DOUBLE WALLS. JOINTS SHALL BE GASKETED WITH MINIMUM SOIL TIGHT CONNECTIONS. BEDDING AND BACKFILL SHALL BE A MINIMUM CLASS IV-A (ASTM D2321).
- SANITARY SEWER LINES SHALL BE SDR 35 PVC WITH GRAVEL TO THE SPRING LINE. SANITARY SEWER UNDER STORM SEWER SHALL BE CLASS 50 DIP.
- WATER LINES SHALL BE: K COPPER BELOW 3" (UNLESS NOTED) PRESSURE CLASS 350 DIP FOR 3" AND LARGER. WATER LINES SHALL HAVE 3 FT. MINIMUM COVER. ALL WATER LINES USED FOR FIRE PROTECTION SUPPLY SHALL MEET NFPA 24.
- ASPHALT PAVING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS AND THE SOUTH CAROLINA D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION. CONTRACTOR SHALL PROVIDE ALL REQUIRED STRIPING AND SIGNAGE FOR WORK ON SITE AND S.C.D.O.T. R.O.W. ALL SITE STRIPING TO COMPLY WITH SCDOT STANDARD PAINT REQUIREMENTS. THERMOPLASTIC PAINT REQUIRED IN SCDOT RIGHT OF WAY.
- CONCRETE SHALL BE 4,000 PSI CONCRETE MINIMUM STEEL REINFORCEMENT SHALL BE ASTM A615, GRADE 60.
- SEE ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND PLUMBING PLANS FOR EXACT LOCATION OF UTILITY ENTRANCES TO THE BUILDINGS.

SITE PLAN NOTES

- CONTRACTOR SHALL IDENTIFY THE LOCATION AND ELEVATIONS OF ALL UTILITIES ON SITE BEFORE CONSTRUCTION.
- ANY DISCREPANCIES FROM THE DRAWINGS SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
- ALL DIMENSIONS ARE TO THE FACE OF CURB, FACE OF THE BUILDING, OR THE EDGE OF PAVEMENT.
- REFER TO EROSION CONTROL, GRADING, GRASSING, AND UTILITY NOTES FOR ADDITIONAL INFORMATION.
- FOLLOW ALL S.C.D.O.T., AND OSHA GUIDELINES AND REGULATIONS WHEN CONSTRUCTING UTILITY AND DRAINAGE TIES IN HIGHWAY.



mcmillan pazdan smith ARCHITECTURE

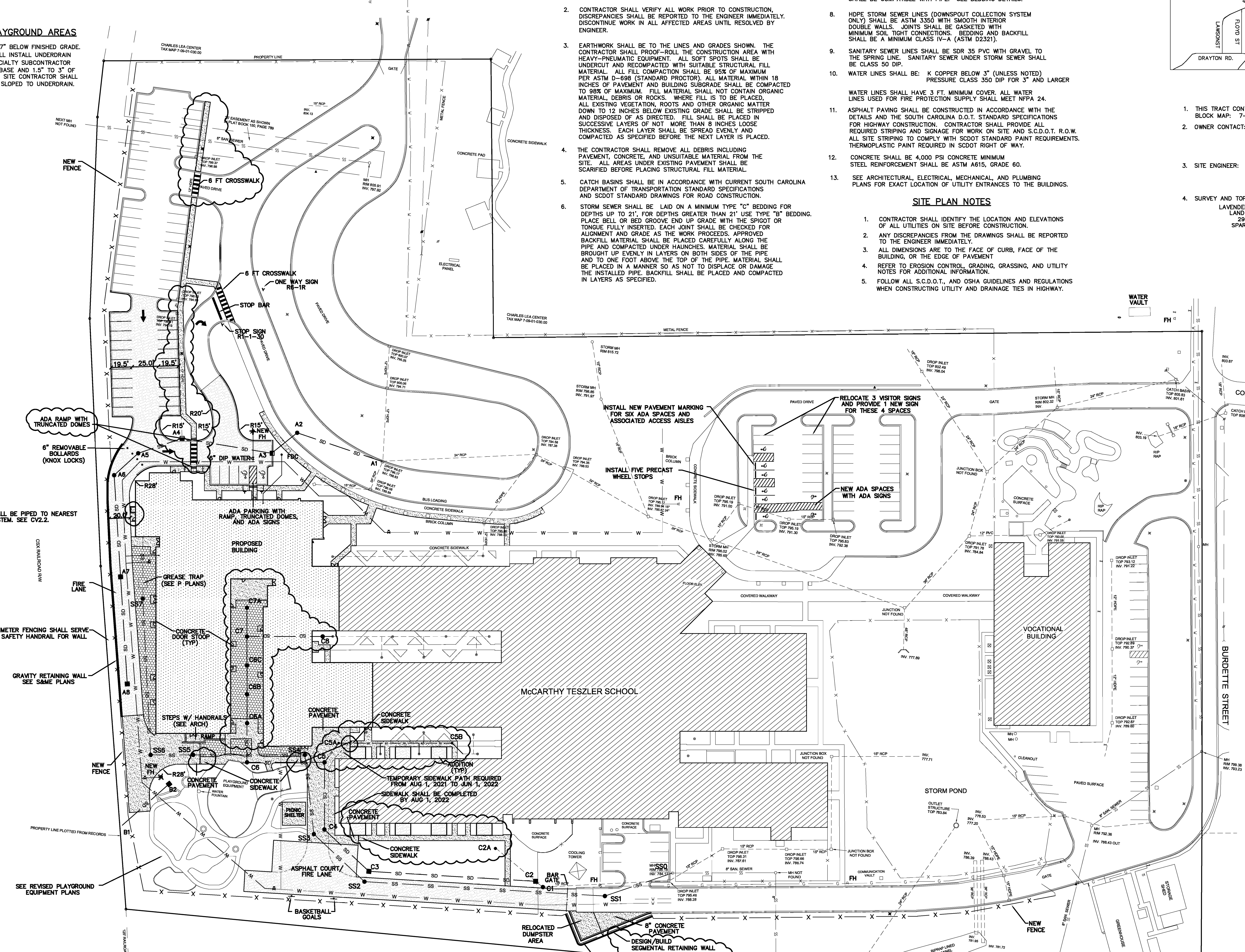
BAI BLACKWOOD ASSOCIATES INC.
CONSULTING ENGINEERS
PO BOX 366
SPARTANBURG, SC 29304
864-583-5432 FAX-583-5434

GENERAL NOTES:

- THIS TRACT CONTAINS 16.27 AC. BLOCK MAP: 7-09-01-030.03
- OWNER CONTACT: SPARTANBURG COUNTY SCHOOL DISTRICT SEVEN
DR. THOMAS WHITE
610 DUPRE DRIVE
SPARTANBURG, SC 29302
PHONE: (864) 594-4400
- SITE ENGINEER: BLACKWOOD ASSOCIATES INC.
PO BOX 366
SPARTANBURG, SC 29304
PHONE: (864) 583-5432
- SURVEY AND TOPOGRAPHIC INFORMATION PROVIDED BY LAVENDER, SMITH & ASSOCIATES, INC.
LAND SURVEYORS & MAPPERS
2900 EAST MAIN STREET
SPARTANBURG, S.C. 29307

SYNTHETIC PLAYGROUND AREAS

SUBGRADE IS 5.5" TO 7" BELOW FINISHED GRADE. SITE CONTRACTOR SHALL INSTALL UNDERDRAIN SYSTEM PRIOR TO SPECIALTY SUBCONTRACTOR INSTALLING 4" STONE BASE AND 1.5" TO 3" OF RUBBERIZED MATERIAL. SITE CONTRACTOR SHALL ENSURE SUBGRADE IS SLOPED TO UNDERDRAIN.



PARKING

141 TOTAL SPACES (131 STANDARD SPACES & 10 HANDICAP SPACES)

STANDARD PARKING SPACES ARE 9 FT WIDE & 18 FT DEEP
ADA PARKING SPACES ARE 10 FT WIDE & 18 FT DEEP
ADA ACCESS AISLES ARE 7 FT WIDE & 18 FT DEEP

EACH HANDICAP SPACE SHALL BE PROVIDED WITH A HANDICAP SIGN. SPACES WITHOUT CURB SHALL HAVE A CONCRETE WHEELSTOP INSTALLED

SIGNAGE & PAVEMENT MARKINGS

PROVIDE TWO (2) COATS STANDARD TRAFFIC PAINT FOR ALL PAVEMENT ARROWS, STRIPING, DRIVE MARKINGS, PARKING SPACES, STOP BARS, ETC. UNLESS THERMOPLASTIC PAINT REQUIRED.

PROVIDE ALL SIGNAGE AS NOTED (COMPLY WITH SCDOT STANDARD)

PROVIDE ADA SIGNAGE FOR ALL ADA SPACES (NEW & EXISTING), UNLESS ALREADY PRESENT.

DESIGN/BUILD: SEGMENTAL RETAINING WALL

THE SEGMENTAL RETAINING WALL SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AS A DESIGN/BUILD COMPONENT OF THE PROJECT. SUBMITTALS SHALL BE SEALED BY A SC PROFESSIONAL ENGINEER AND SUBMITTED TO THE GEOTECHNICAL ENGINEER FOR REVIEW. THE DESIGN SHALL ENCOMPASS ALL COMPONENTS AND ASPECTS OF THE SEGMENTAL WALL, SUCH AS FOUNDATIONS, TIEBACKS, DRAINAGE PROTECTION (SURFACE AND GROUNDWATER), AND EROSION PROTECTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING PROPER BACKFILL MATERIAL IF THE IN-SITU SOIL IS UNSUITABLE.

THE RETAINING WALL STRUCTURE SHALL BE INSTALLED COMPLETE WITH WATER REPELLENCY AND FOUNDATION DRAINAGE TO PREVENT EFFLORESCENCE. BOTTOM ASH SHALL NOT BE PERMITTED IN THE CMU MATERIAL.

DESIGN SHALL MAKE ACCOMMODATIONS FOR INSTALLATION OF FENCE BEHIND TOP WALL. PROVIDE & INSTALL SLEEVES FOR FENCE POSTS.

SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

175 BURETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

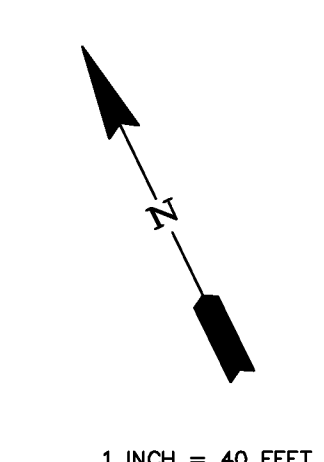
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CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB
SHEET TITLE:

SITE PLAN

SHEET NO. PROJ. NO.
020063.00

CV2.1



SANITARY SEWER TESTING NOTES

GRAVITY SANITARY SEWER

GRAVITY SEWER LINES SHALL BE LAMPED AND ALL PIPES SHALL SHOW A TRUE ALIGNMENT. GRAVITY SEWER LINES COMPOSED OF PVC SHALL BE TESTED FOR DEFLECTION USING A MANDREL. THE DEFLECTION TEST SHALL OCCUR AT THE FINAL INSPECTION, A MINIMUM OF 30 DAYS AFTER COMPLETION OF BACKFILL. PRIOR TO TESTING, CLEAN AND FLUSH LINE OF DIRT AND FOREIGN MATERIAL. THE MANDREL SHALL BE PLACED IN THE PIPELINE AND MANUALLY PULLED. USING A TOW CABLE OR ROPE FROM MANHOLE TO MANHOLE. THE MANDREL SHOULD HAVE A TOW LINE ON EACH END TO FACILITATE REMOVAL IF AN OBSTRUCTION OCCURS. IF THE MANDREL STOPS AND APPEARS THAT IT WILL NOT MOVE FORWARD, RECORD THE DISTANCE BETWEEN MANHOLES AND REMOVE. CONTRACTOR SHALL MAKE REPAIRS AS DIRECTED BY THE ENGINEER. GRAVITY SEWER LINES SHALL BE AIR TESTED. LINES NOT PASSING THE TEST SHALL BE REPAIRED AND RETESTED AS REQUIRED BY THE ENGINEER. CONTRACTOR SHALL FURNISH ALL MATERIALS AND TESTING EQUIPMENT TO PERFORM THE AIR TESTING OF THE SEWER LINE. PRESSURE TESTING SHALL BE PERFORMED AT A TEST PRESSURE OF 4 PSI USING A MONITORING GAUGE (0 TO 5 PSI WITH MINIMUM DIVISIONS OF 0.10 PSI OR APPROVED BY THE INSPECTOR).

SANITARY SEWER MANHOLES

ALL MANHOLES SHALL BE SUBJECT TO A VACUUM TEST. THE CONTRACTOR SHALL FURNISH ALL NECESSARY EQUIPMENT AND LABOR NEEDED FOR CONDUCTING THE TESTS. ALL MANHOLES TO BE TESTED SHALL HAVE PIPES ENTERING AND LEAVING THE MANHOLE PLUGGED. THE MANDREL SHALL HAVE A VACUUM DRAWN OF 10 INCHES OF MERCURY. THE TEST SHALL PASS IF THE VACUUM REMAINS AT 10 INCHES OR DROPS TO 9 INCHES OF MERCURY IN A TIME GREATER THAN ONE MINUTE. THE CONTRACTOR SHALL LOCATE AND REPAIR THE LEAK(S) FOR FAILED MANHOLES.

SANITARY SEWER SCHEDULE

MANHOLE SCHEDULE

MANHOLE	TOP	INVERT IN	INVERT OUT
SSMH7	796.30	791.65	791.45
SSMH6	795.00	790.25	790.05
SSMH5	794.90	789.65	789.45
SSMH4	796.55	788.60	788.40
SSMH3	796.15	787.95	787.75
SSMH2	795.45	787.20	787.00
SSMH1	795.95	785.15	784.95
SSMH0	796.18	784.40	784.17

PIPE SCHEDULE

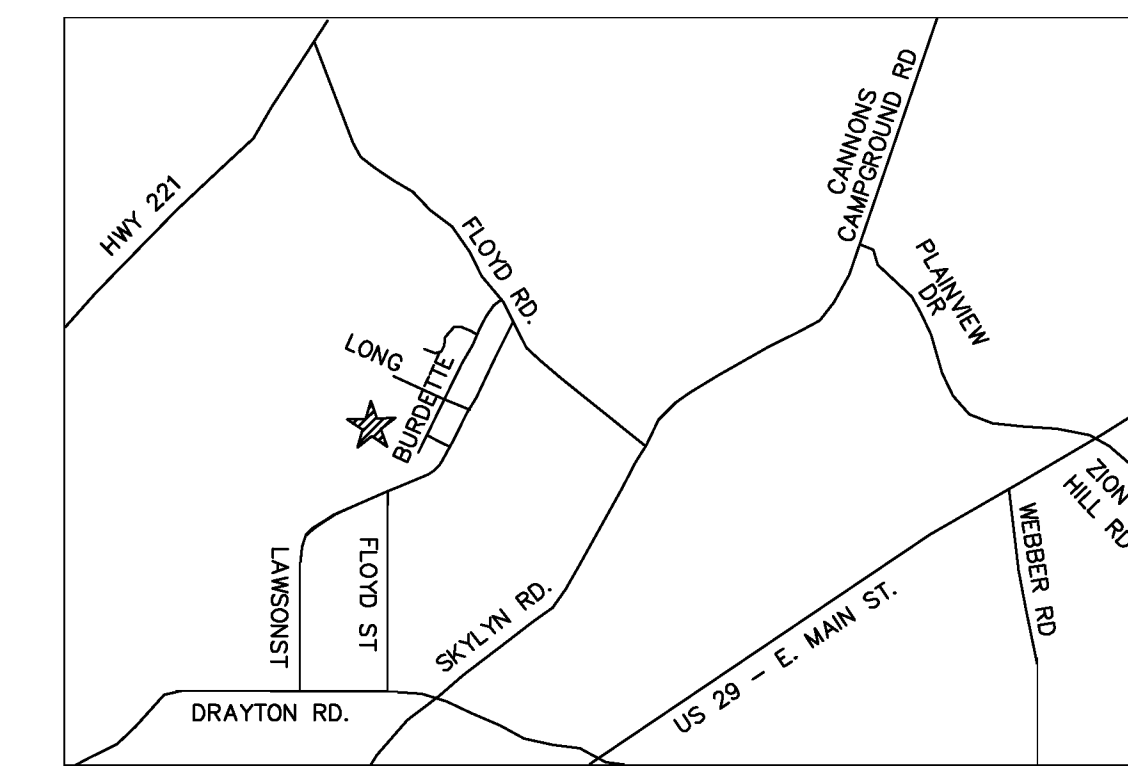
FROM-TO	LENGTH (FT.)	SIZE (IN.)	SLOPE (%)
SSMH7-SSMH6	147.7	6	
SSMH6-SSMH5	47.6	6	
SSMH5-SSMH4	105.6	6	
SSMH4-SSMH3	74.8	6	
SSMH3-SSMH2	65.6	6	
SSMH2-SSMH1	227.6	6	
SSMH1-SSMH0	67.5	6	

PIPE SHALL BE GASKETED SDR35 PVC BEDDED IN WASHED STONE TO THE SPRINGLINE UNLESS NOTED OTHERWISE ON THE SIZE COLUMN ABOVE.

AREAS AROUND MANHOLES SHALL BE GRADED FOR A SMOOTH TRANSITION WITH TOPS AND ADJACENT GRADES FLUSH.

MANHOLES SS4, SS5, & SS7 SHALL HAVE 4" BOOTS INSTALLED FOR CONNECTION BY PLUMBING CONTRACTOR (VERIFY BEFORE PROCUREMENT)

ALL MANHOLE RING AND COVERS SHALL BE ADJUSTED TO MATCH FINISH GRADE. RINGS SHALL BE FLUSH WITH ADJACENT GRADE ELEVATIONS.



mcmillan pazdan smith
ARCHITECTURE

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Professional Engineer Seal for Blackwood Associates, Inc. No. 3823, State of South Carolina, License No. 00019, dated 05-12-2021.

WATER DISTRIBUTION NOTES

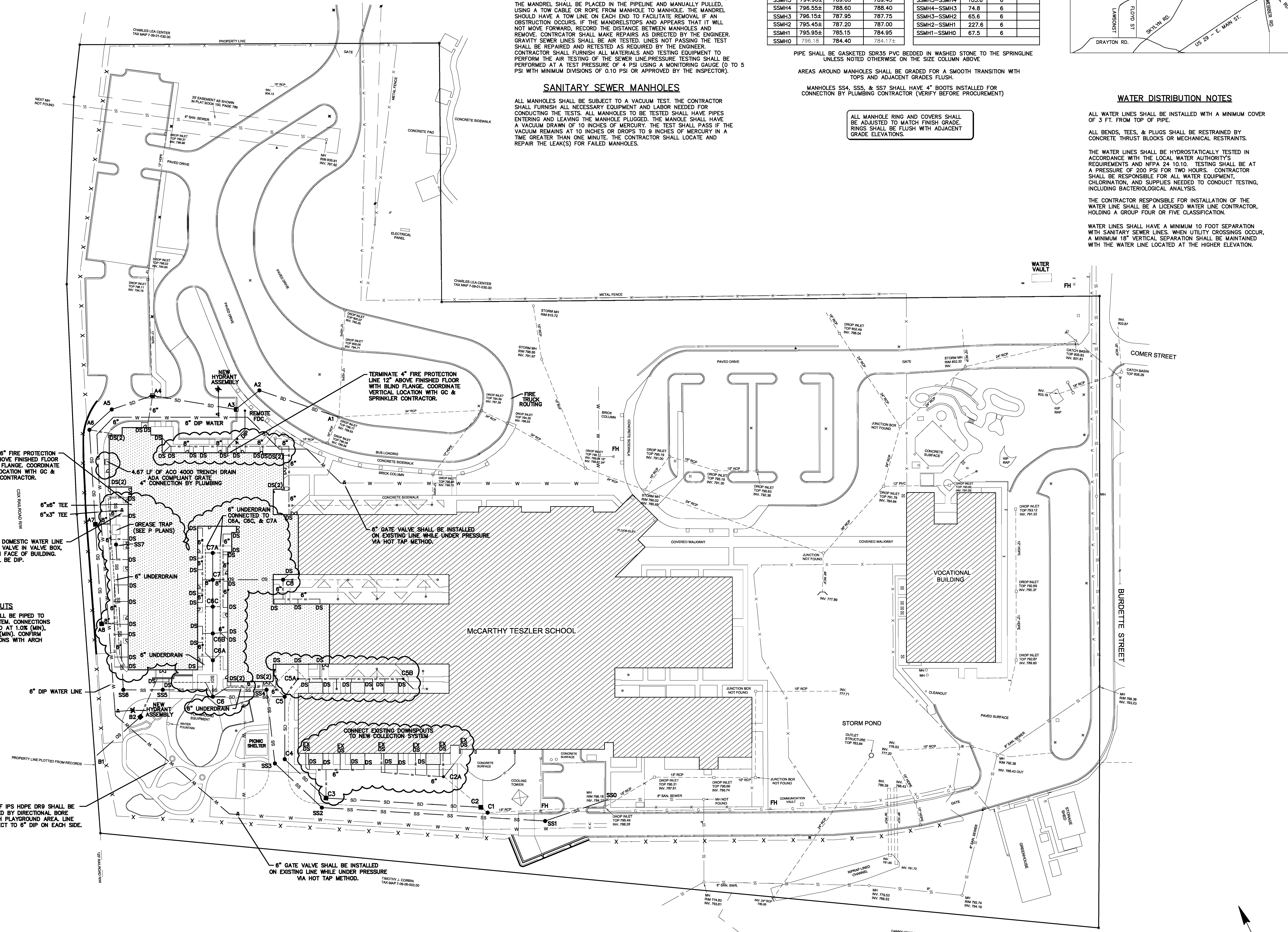
ALL WATER LINES SHALL BE INSTALLED WITH A MINIMUM COVER OF 3 FT. FROM TOP OF PIPE.

ALL BENDS, TEES, & PLUGS SHALL BE RESTRAINED BY CONCRETE THRUST BLOCKS OR MECHANICAL RESTRAINTS.

THE WATER LINES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH THE LOCAL WATER AUTHORITY'S REQUIREMENTS AND NPSA 24 10.10. TESTING SHALL BE AT A PRESSURE OF 200 PSI FOR TWO HOURS. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WATER EQUIPMENT, CHLORINATION, AND SUPPLIES NEEDED TO CONDUCT TESTING, INCLUDING BACTERIOLOGICAL ANALYSIS.

THE CONTRACTOR RESPONSIBLE FOR INSTALLATION OF THE WATER LINE SHALL BE A LICENSED WATER LINE CONTRACTOR, HOLDING A GROUP FOUR OR FIVE CLASSIFICATION.

WATER LINES SHALL HAVE A MINIMUM 10 FOOT SEPARATION WITH SANITARY SEWER LINES. WHEN UTILITY CROSSINGS OCCUR, A MINIMUM 18" VERTICAL SEPARATION SHALL BE MAINTAINED WITH THE WATER LINE LOCATED AT THE HIGHER ELEVATION.



TERMINATE 6" FIRE PROTECTION LINE 12" ABOVE FINISHED FLOOR WITH BLIND FLANGE. COORDINATE VERTICAL LOCATION WITH GC & SPRINKLER CONTRACTOR.

TERMINATE 3" DOMESTIC WATER LINE WITH 3" GATE VALVE IN VALVE BOX, AT 5 FT FROM FACE OF BUILDING. 3" LINE SHALL BE DIP.

DOWNSPOUTS
ALL DOWNSPOUTS SHALL BE PIPED TO STORM DRAINAGE SYSTEM. CONNECTIONS ARE 6" DIA (MIN.) LAID AT 1.0% (MIN.) WITH 2 FT OF COVER (MIN). CONFIRM NUMBER OF CONNECTIONS WITH ARCH AND ROOFING PLANS.

SECTION OF IPS HDPE DR9 SHALL BE INSTALLED BY DIRECTIONAL BORE UNDERNEATH PLAYGROUND AREA. LINE SHALL CONNECT TO 6" DIP ON EACH SIDE.

6" GATE VALVE SHALL BE INSTALLED ON EXISTING LINE WHILE UNDER PRESSURE VIA HOT TAP METHOD.

TERMINATE 4" FIRE PROTECTION LINE 12" ABOVE FINISHED FLOOR WITH BLIND FLANGE. COORDINATE VERTICAL LOCATION WITH GC & SPRINKLER CONTRACTOR.

6" GATE VALVE SHALL BE INSTALLED ON EXISTING LINE WHILE UNDER PRESSURE VIA HOT TAP METHOD.

CONNECT EXISTING DOWNSPOUTS TO NEW COLLECTION SYSTEM.

SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

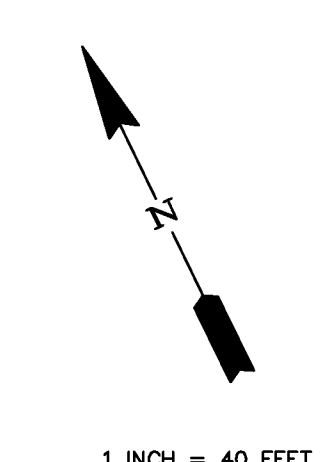
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	ADDENDUM NO. 1	WAB
2	05/12/2021	ADDENDUM NO. 2	WAB

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB

SITE UTILITIES

SHEET NO. PROJ. NO.
020063.00

CV2.2



1 INCH = 40 FEET

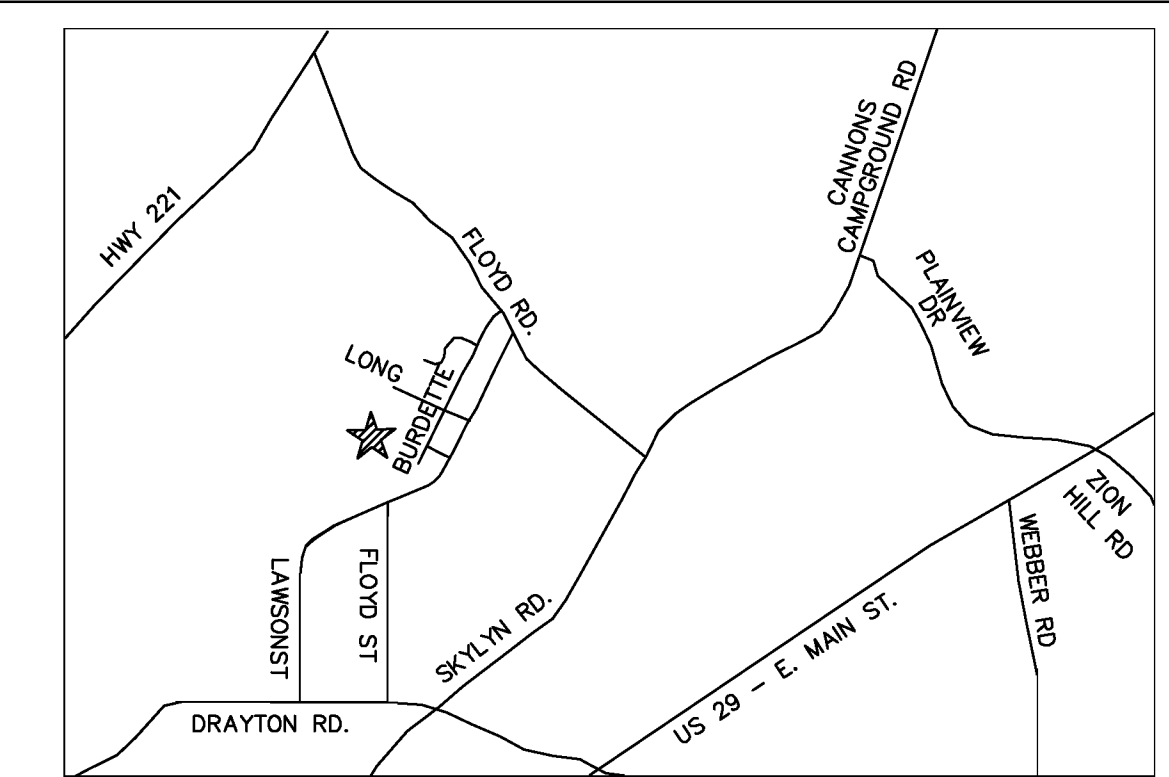
STABILIZATION NOTE:
ALL DISTURBED AREAS SHALL BE STABILIZED WITH PERMANENT STABILIZATION MEASURES (GRASS, LANDSCAPING, OR IMPERVIOUS COVER)

STORM DRAINAGE CHART

INLET SCHEDULE				PIPE SCHEDULE				
INLET	TYPE	TOP /THR.	INVERT IN	INVERT OUT	FROM-TO	LENGTH (FT.)	SIZE (IN.)	SLOPE (%)
A8	GRATE	795.6±		792.55	A8-A7	101.4	18 HP	
A7	GRATE	795.4±	791.85	791.85	A7-A6	96.2	18 HP	
A6	JUNCTION	795.5±	791.35	791.35	A6-A5	30.8	18 RCP	
A5	JUNCTION	795.8±	791.20	791.20	A5-A4	43.2	24 RCP	
A4	HOODED	795.30	790.95	790.95	A4-A3	86.3	24 RCP	
A3	HOODED	794.40	790.50	790.50	A3-A2	30.2	24 RCP	
A2	JUNCTION	797.5±	790.30	790.30	A2-A1	85.0	24 RCP	
A1	EXISTING	796.17	789.85	788.63				
B2	GRATE	794.5		791.5				
B1	OPEN			791.0	B2-B1	58.0	12 HP	

C8	GRATE	796.15		792.50	* C8-C7	71.5	15 DIP	
C7A	GRATE	796.15		792.25	C7A-C7	27.1	12 HP	
C7	GRATE	796.15	792.10	792.10	C7-C6C	27.3	18 HP	
C6C	GRATE	796.15	791.95	791.95	C6C-C6B	27.3	18 HP	
C6B	GRATE	796.15	791.80	791.80	C6B-C6A	27.3	18 HP	
C6A	GRATE	796.15	791.65	791.65	C6A-C6	37.1	18 HP	
C6	GRATE	796.15	791.45	791.45	C6-C5	73.2	18 HP	
CSB	YARD	796.5±	791.75	791.75	C5B-C5A	107.2	12 HP	
CSA	YARD	796.5±	791.20	791.20	C5A-C5	22.6	12 HP	
C5	JUNCTION	796.5	791.05	791.05	C5-C4	63.5	18 HP	
C4	JUNCTION	796.4	790.7	790.7	C4-C3	57.8	18 HP	
C3	GRATE	795.5	790.4	790.4	C3-C2	157.9	18 HP	
C2A	YARD	795.4	789.6	789.6				
C2	GRATE	795.4	789.6	789.6				
C1	JUNCTION	795.6	789.5	789.5				

REFERENCE SITE PLAN SPECIFICATIONS FOR CLASS PIPE / BEDDING.
SEE DETAILS FOR INLET SCHEDULE ELEVATION LOCATION.
PROVIDE INLET PROTECTION TYPICAL ALL INLETS.
CONTRACTOR TO PROVIDE INLET MAINTENANCE AFTER ALL STORM EVENTS.
* LINE C8-C7 SHALL BE 15° DIP WITH MEGALUGS INSTALLED ON JOINTS. JOINTS WRAPPED FOR ADDITIONAL PROTECTION.
** YARD INLETS IN CONCRETE PAVEMENT SHALL HAVE RING & COVER STYLE TOPS (SOLID)
*** COURTYARD (RUBBERIZED SURFACE AREAS) GRATES SHALL BE 24" ROUND GRATES WITH 6" CONCRETE COLLAR

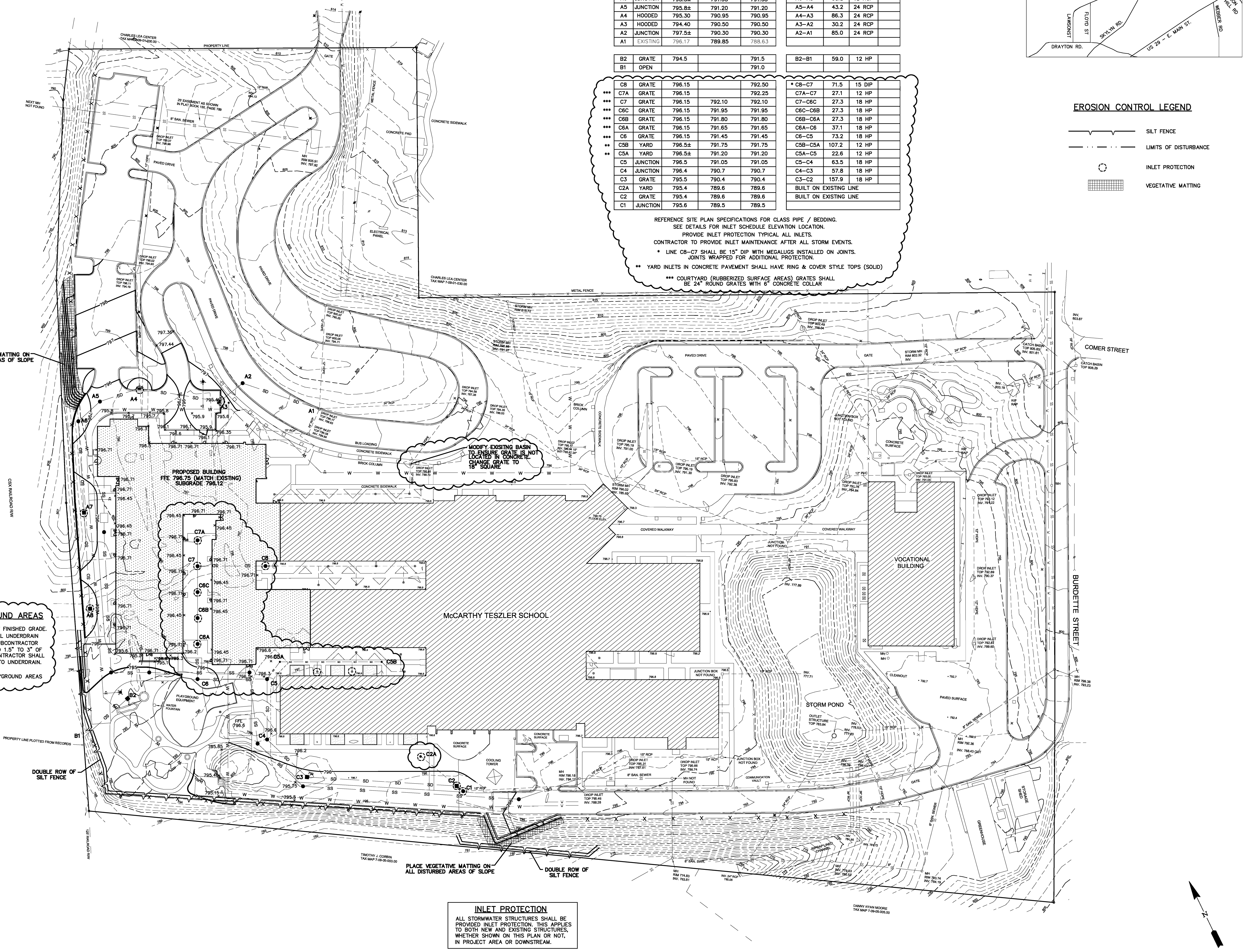
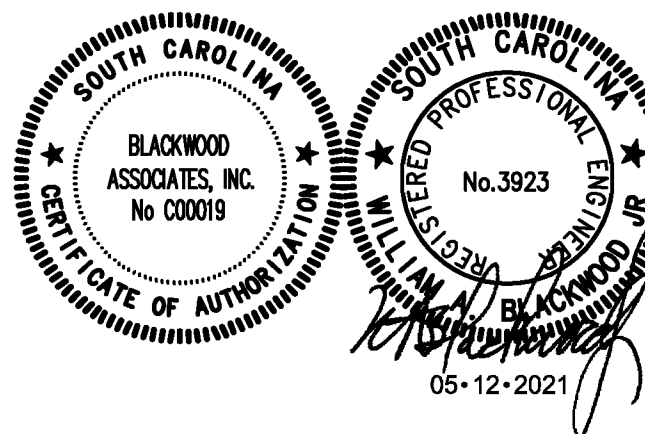


EROSION CONTROL LEGEND

- SILT FENCE
- LIMITS OF DISTURBANCE
- INLET PROTECTION
- VEGETATIVE MATTING



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CONSULTING ENGINEERS
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864-583-5432 FAX-583-5434



SYNTHETIC PLAYGROUND AREAS
SUBGRADE IS 5.5" TO 7" BELOW FINISHED GRADE. SITE CONTRACTOR SHALL INSTALL UNDERDRAIN SYSTEM PRIOR TO SPECIALTY SUBCONTRACTOR INSTALLING 4" STONE BASE AND 1.5" TO 3" OF RUBBERIZED MATERIAL. SITE CONTRACTOR SHALL ENSURE SUBGRADE IS SLOPED TO UNDERDRAIN.
SEE CV2.1 FOR SYNTHETIC PLAYGROUND AREAS

MODIFY EXISTING BASIN TO ENSURE GRADE IS NOT CHANGED IN CONCRETE CHANGE GRATE TO 18" SQUARE

INLET PROTECTION
ALL STORMWATER STRUCTURES SHALL BE PROVIDED INLET PROTECTION. THIS APPLIES TO BOTH NEW AND EXISTING STRUCTURES, WHETHER SHOWN ON THIS PLAN OR NOT, IN PROJECT AREA OR DOWNSTREAM.

SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:	NO.	DATE	DESCRIPTION	BY
	1	04/29/2021	ADDENDUM NO. 1	WAB
	2	05/12/2021	ADDENDUM NO. 2	WAB

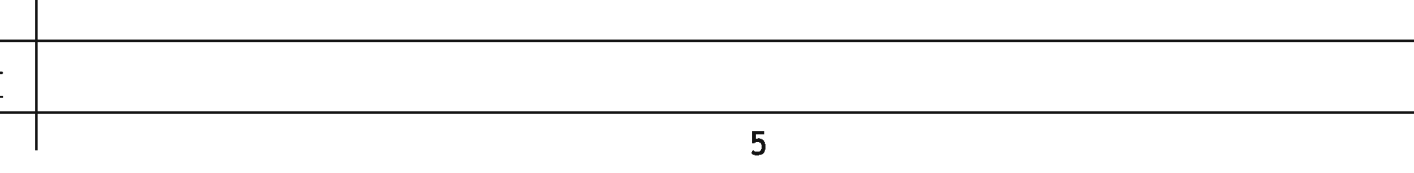
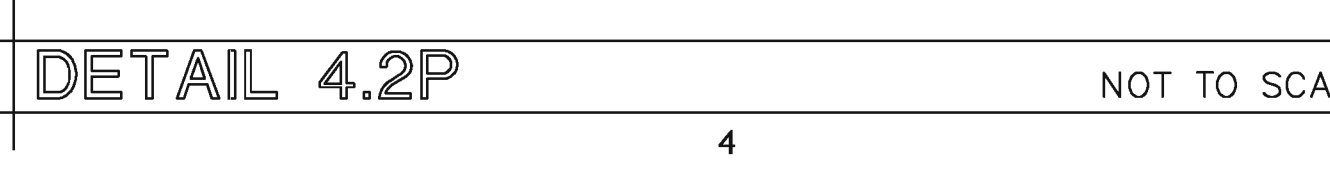
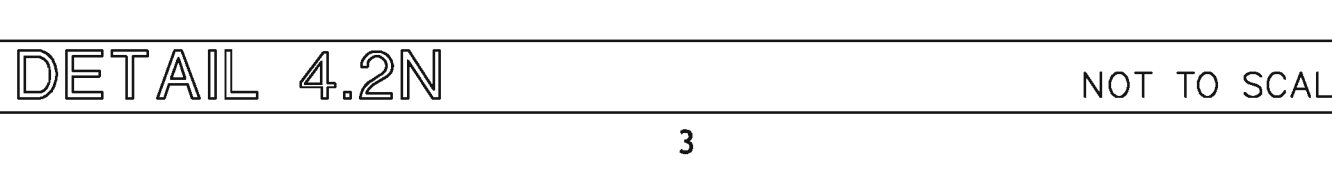
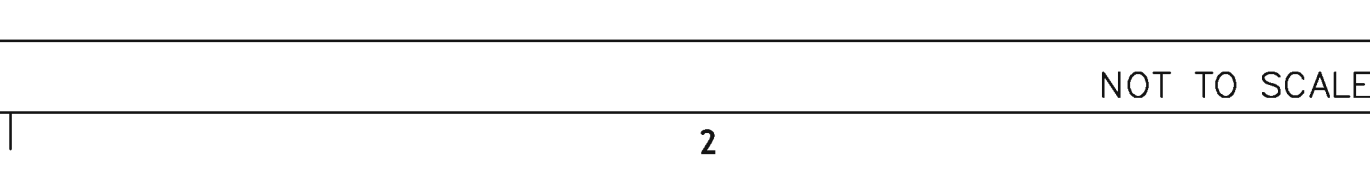
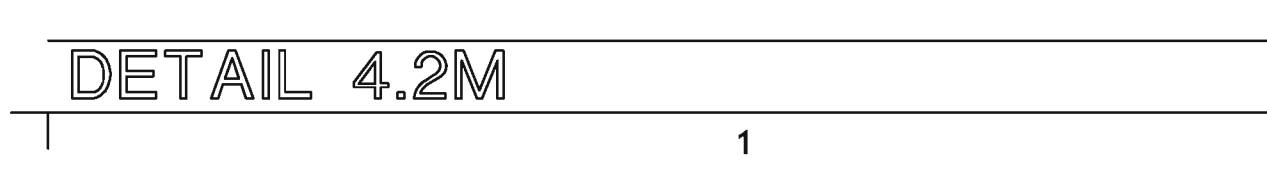
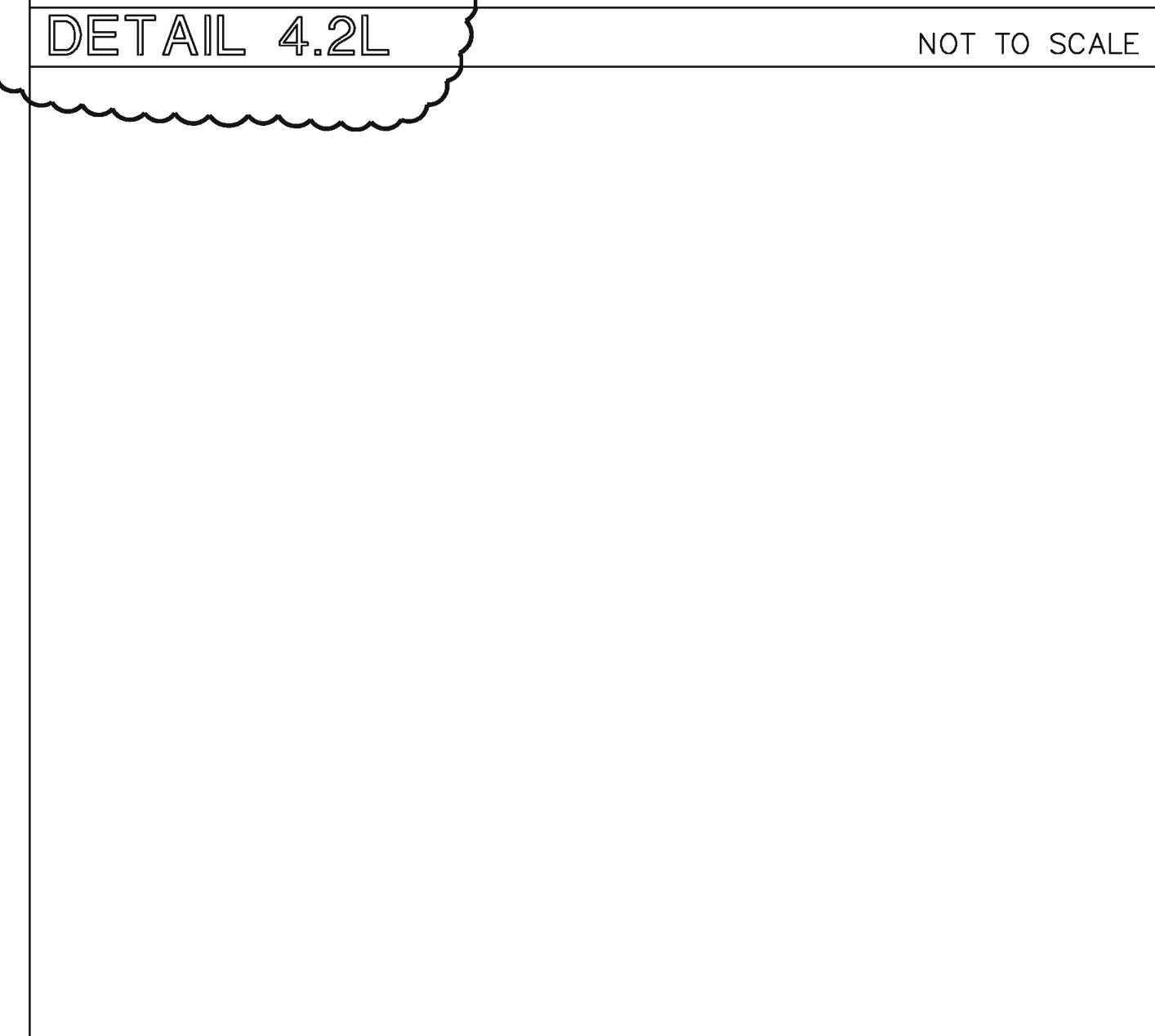
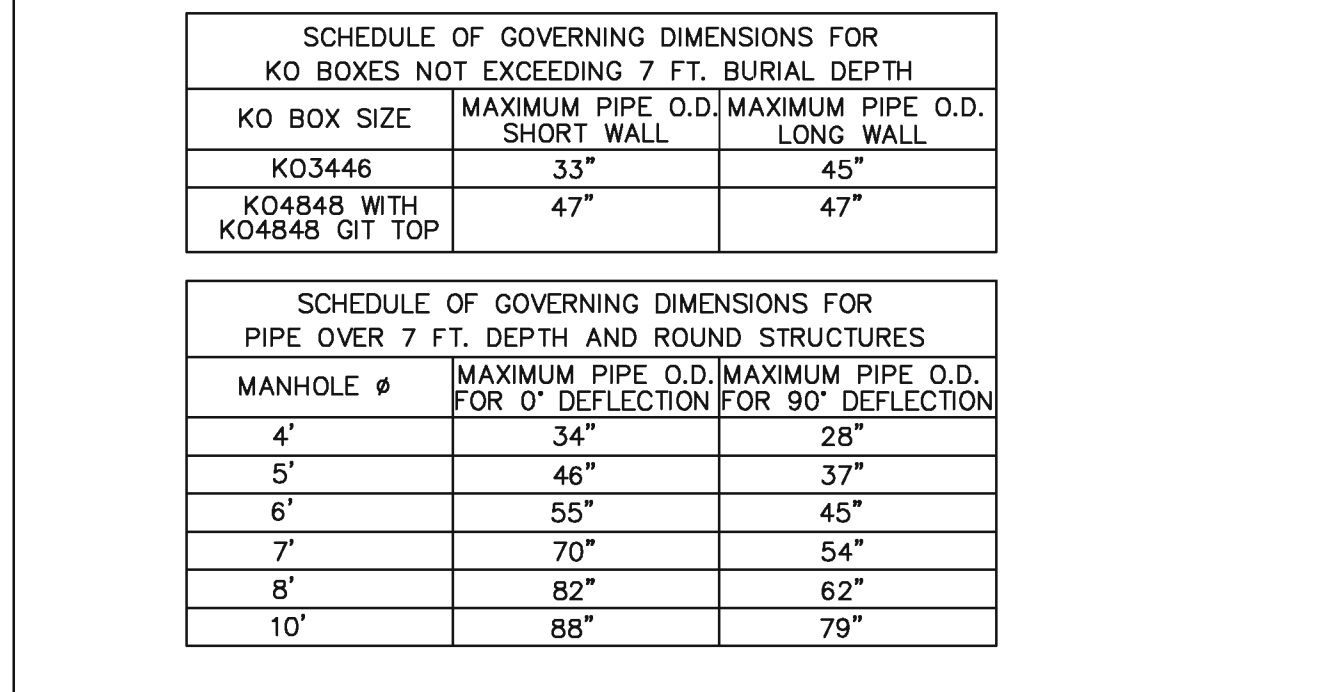
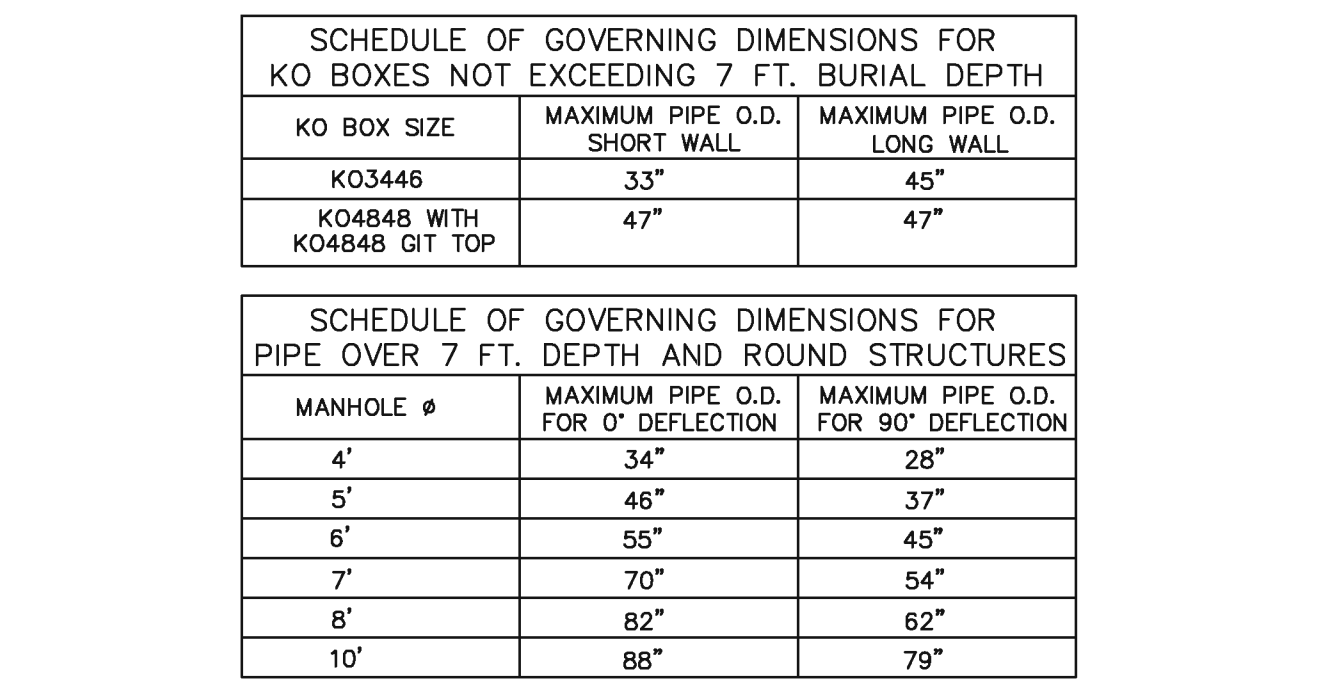
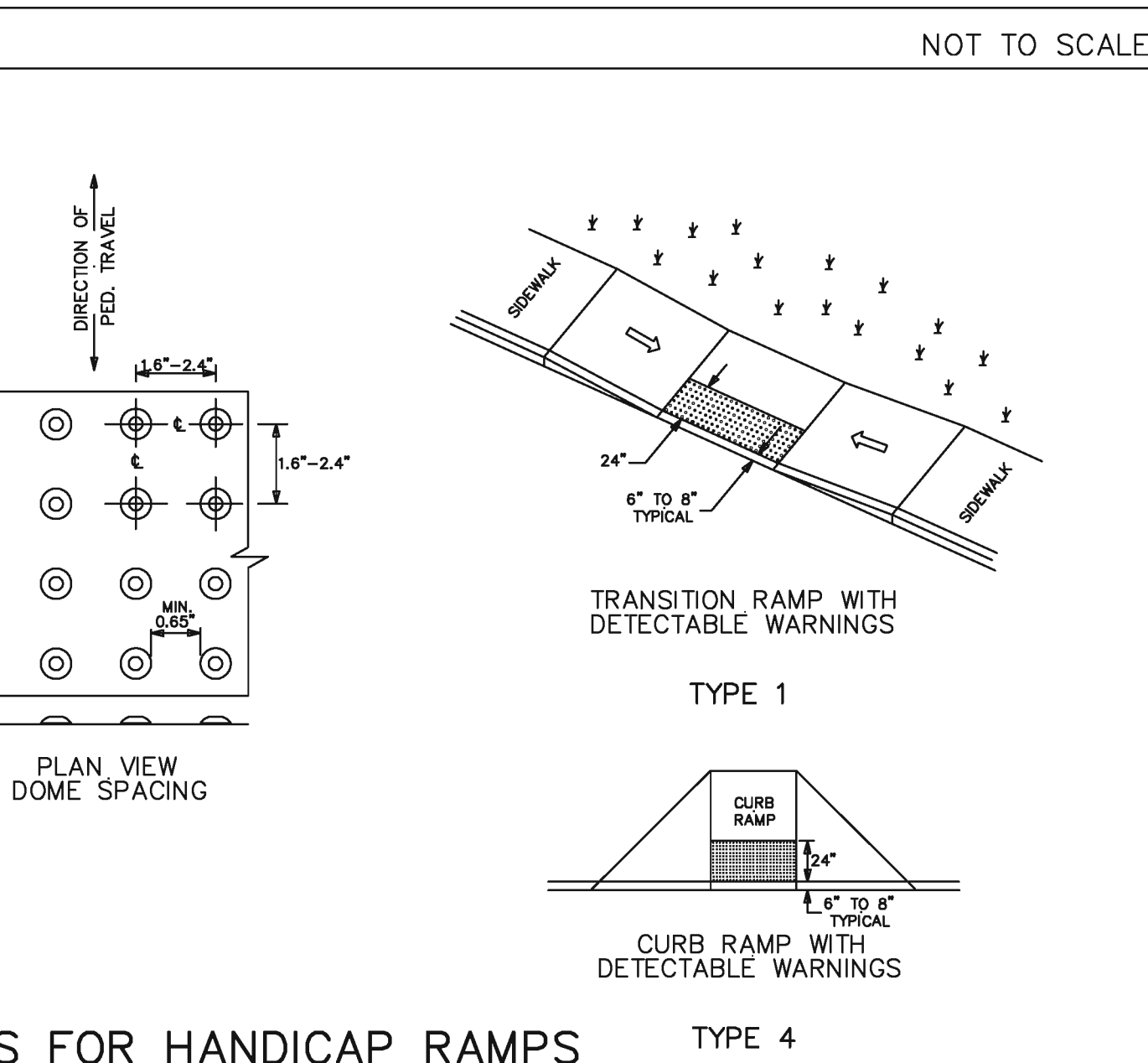
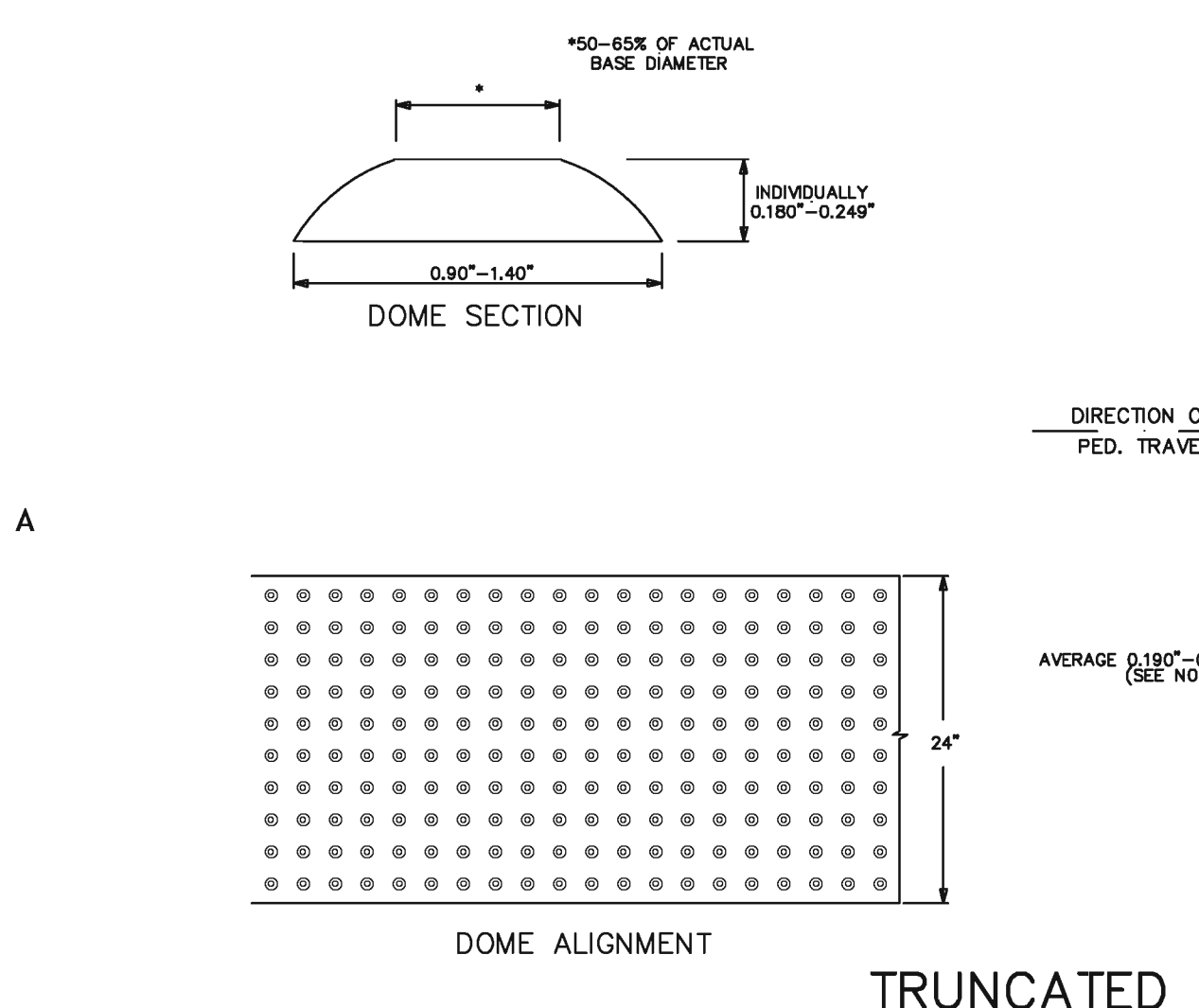
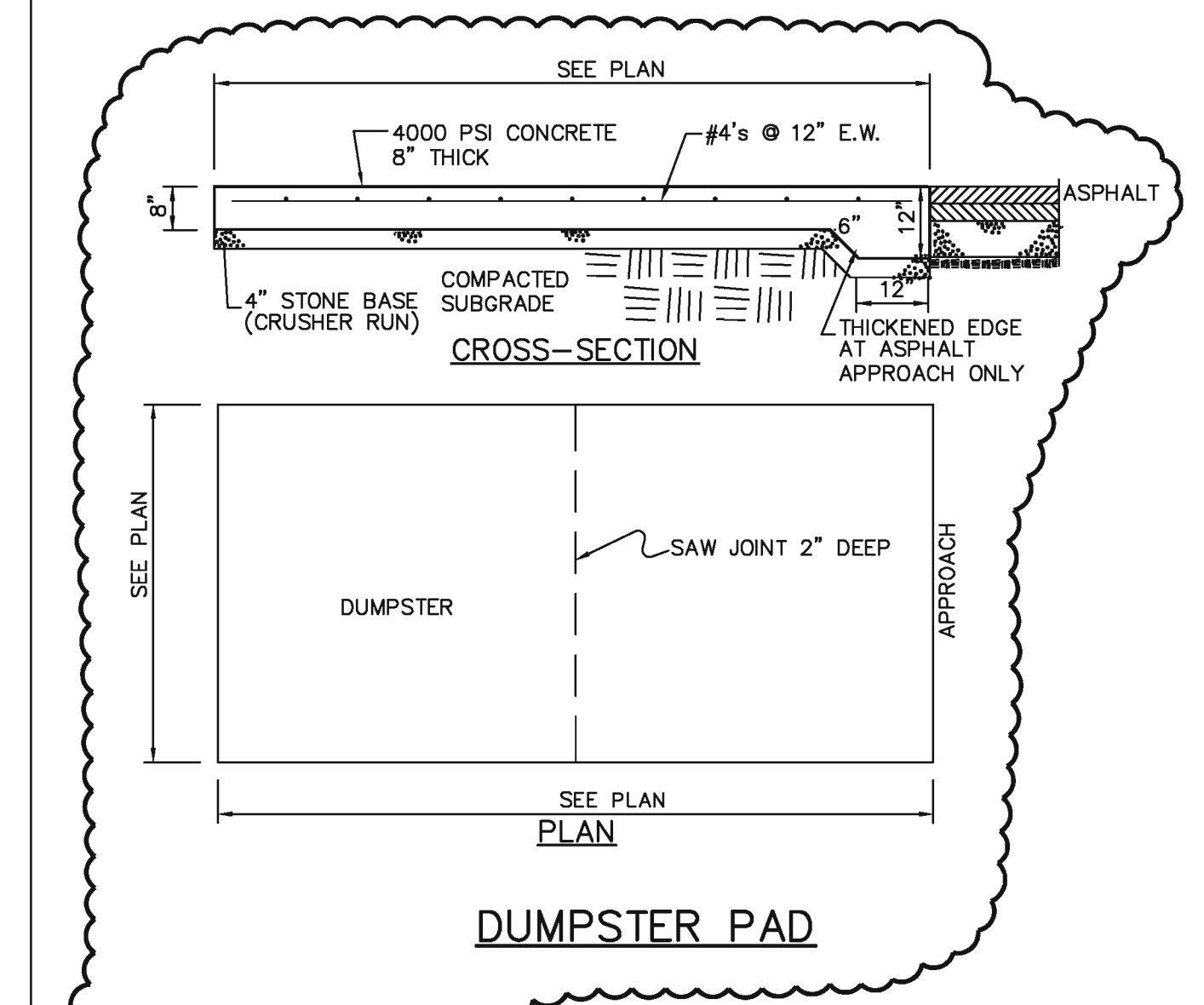
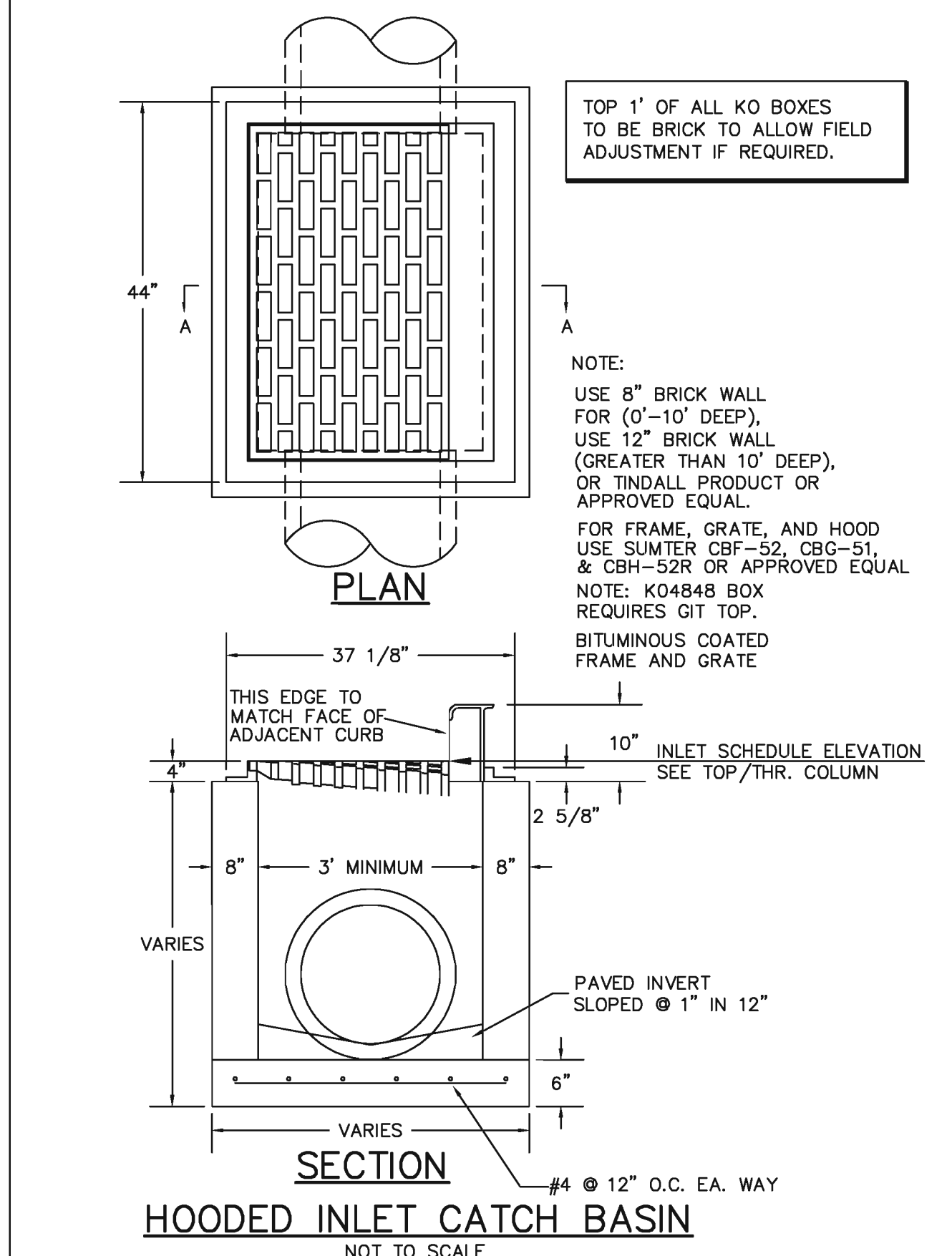
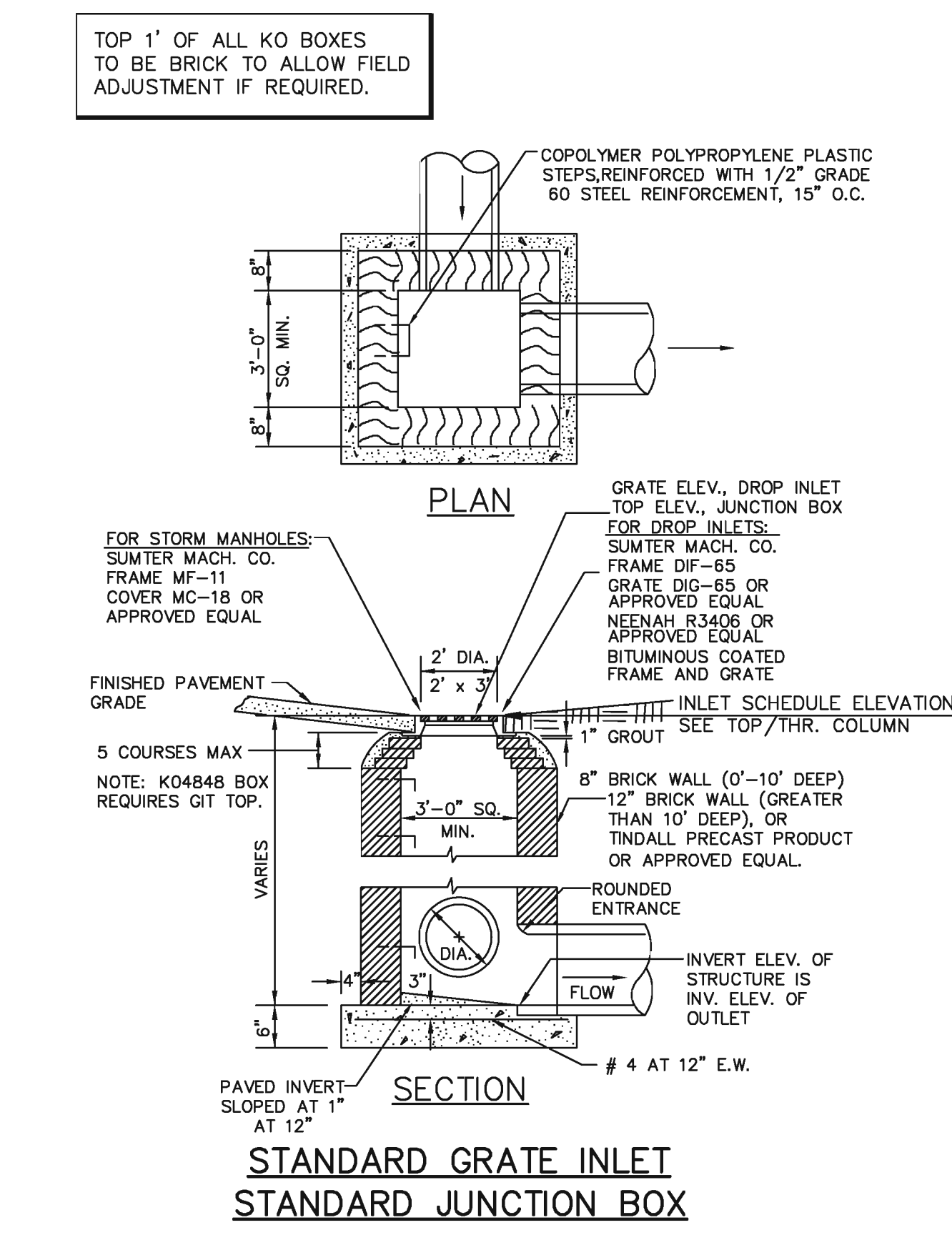
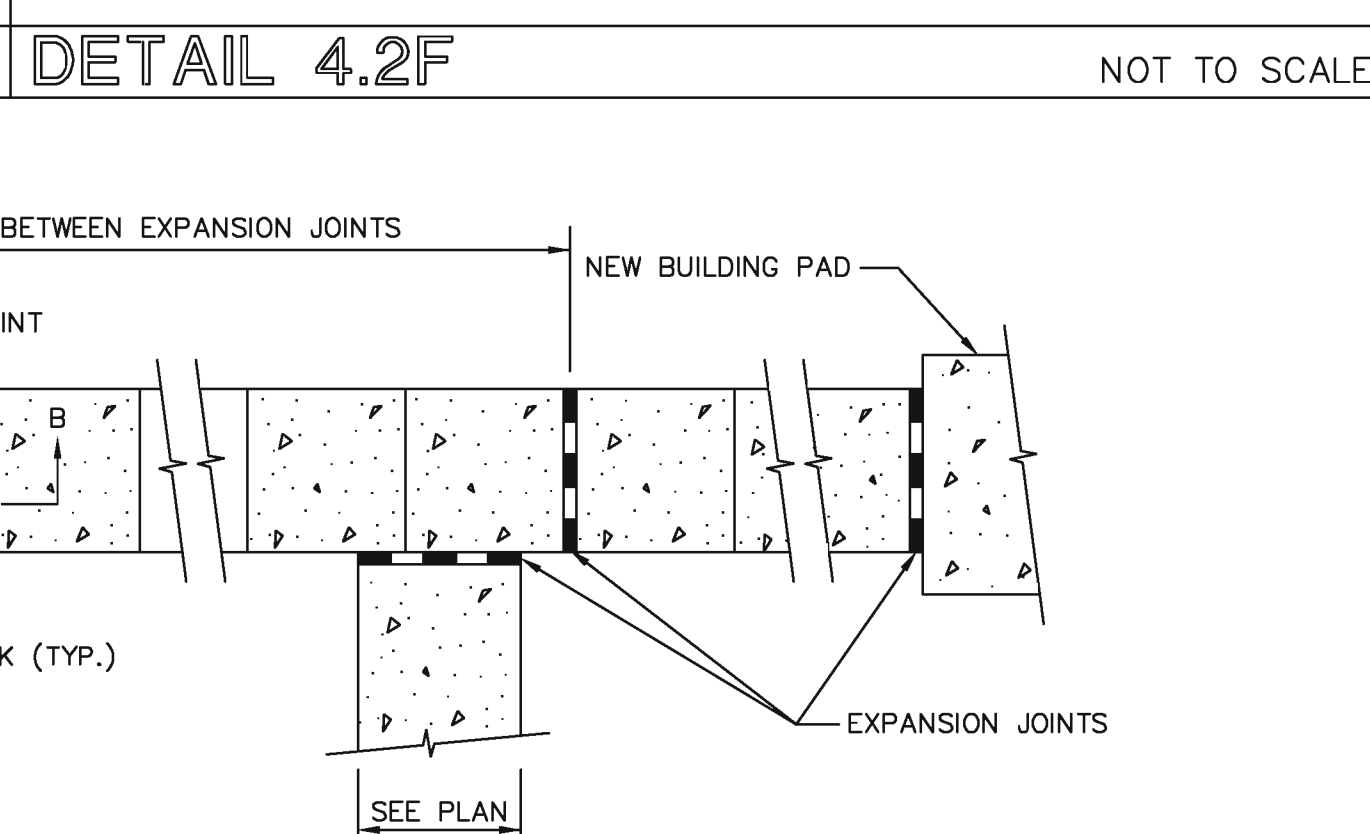
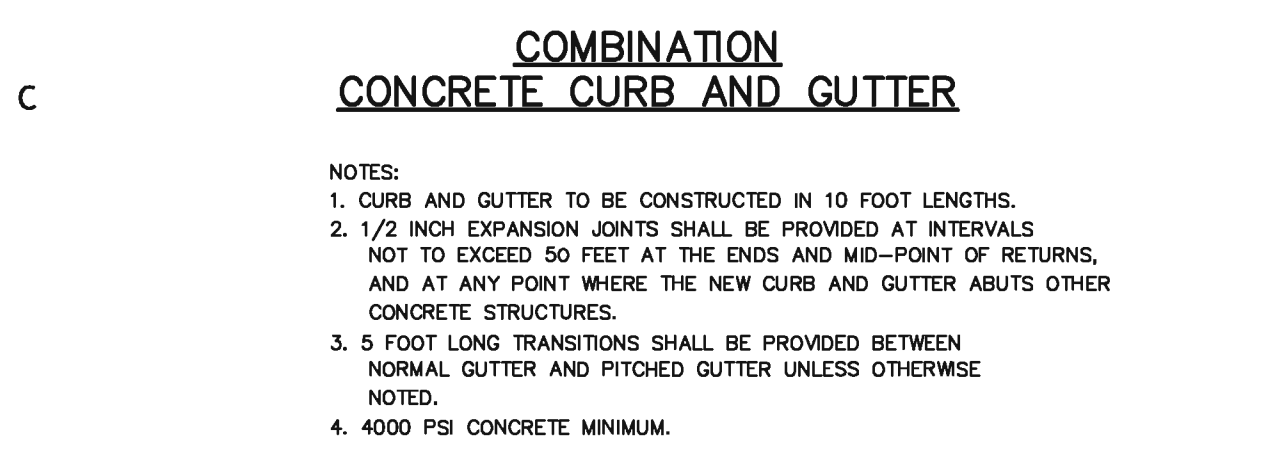
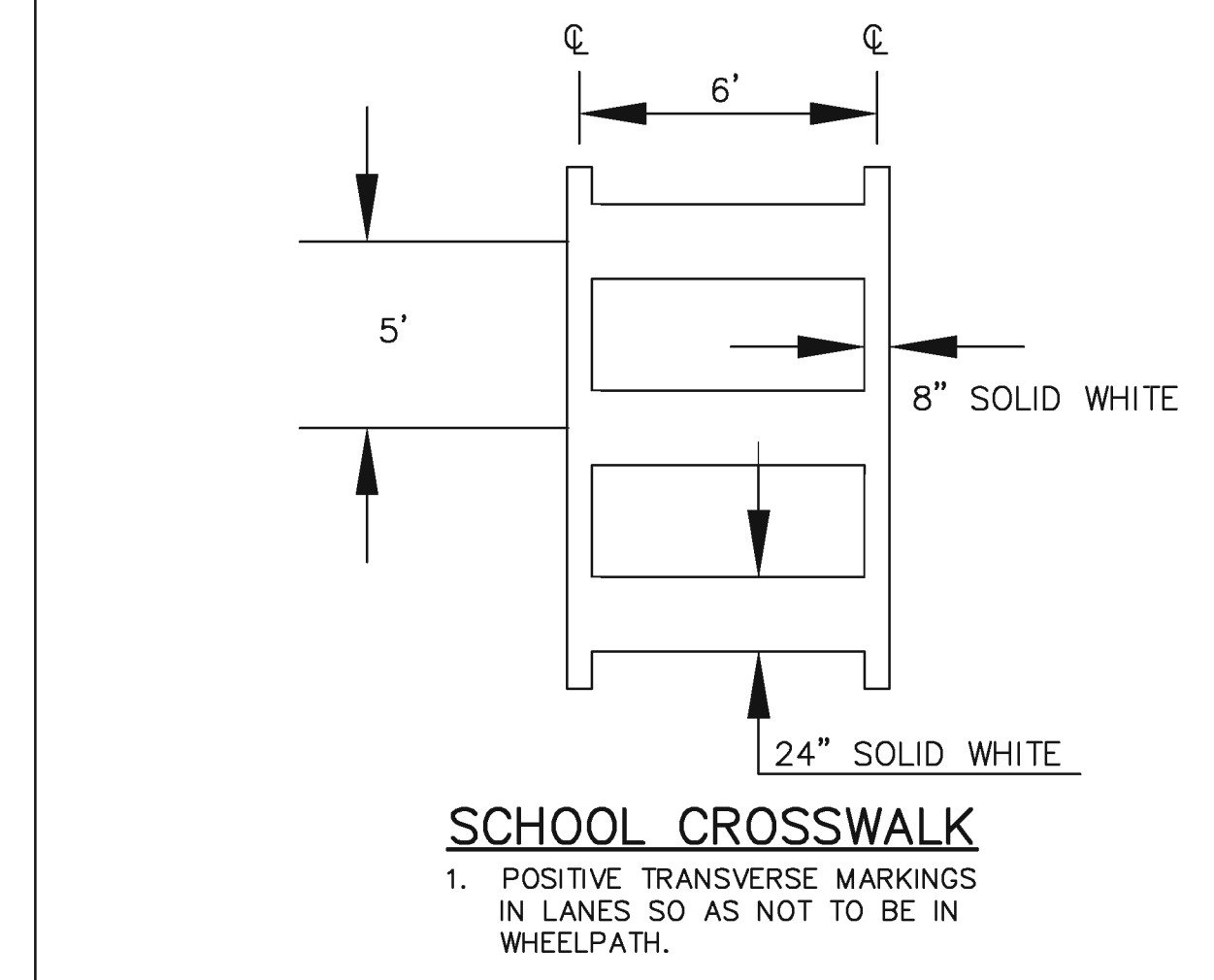
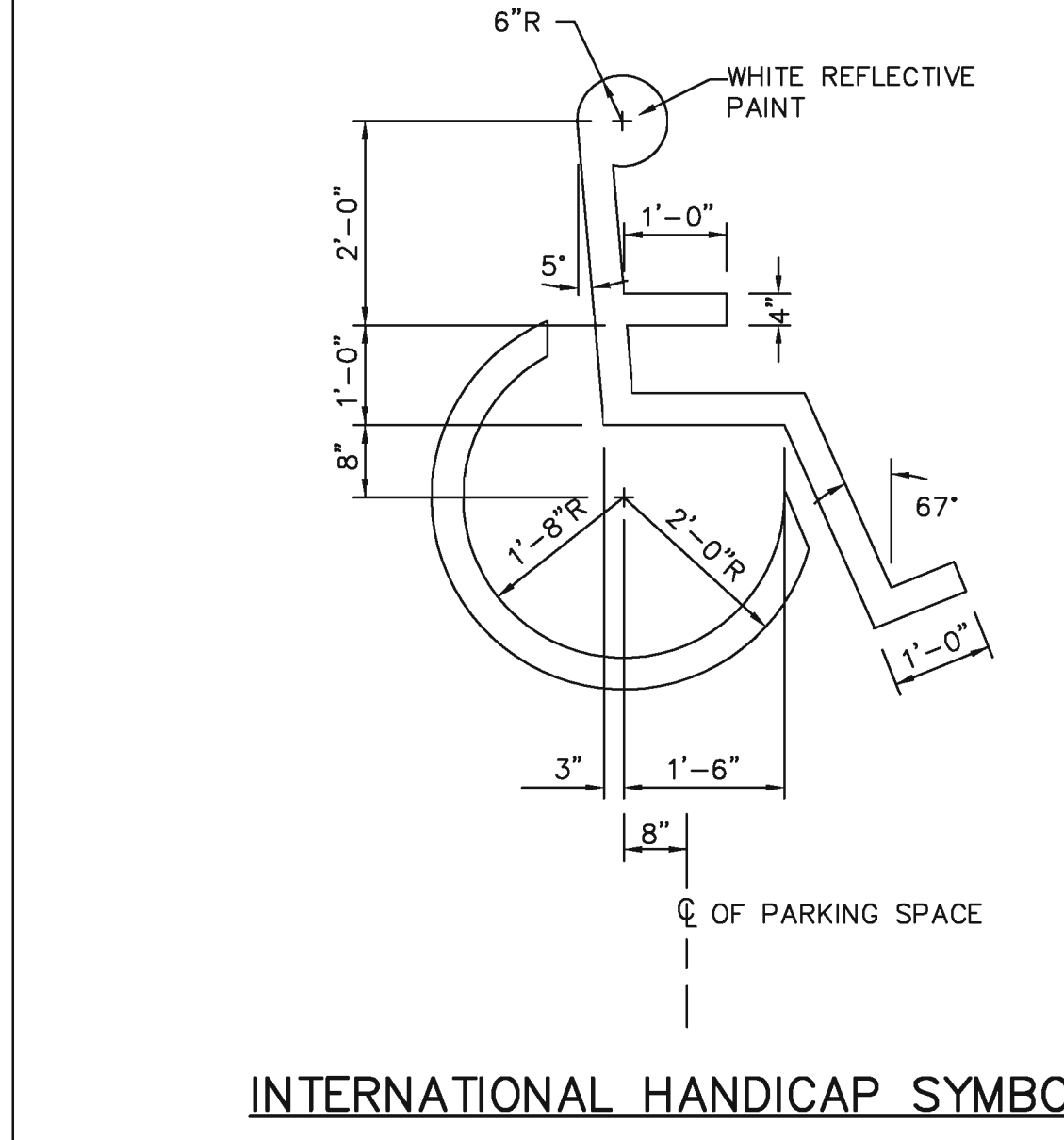
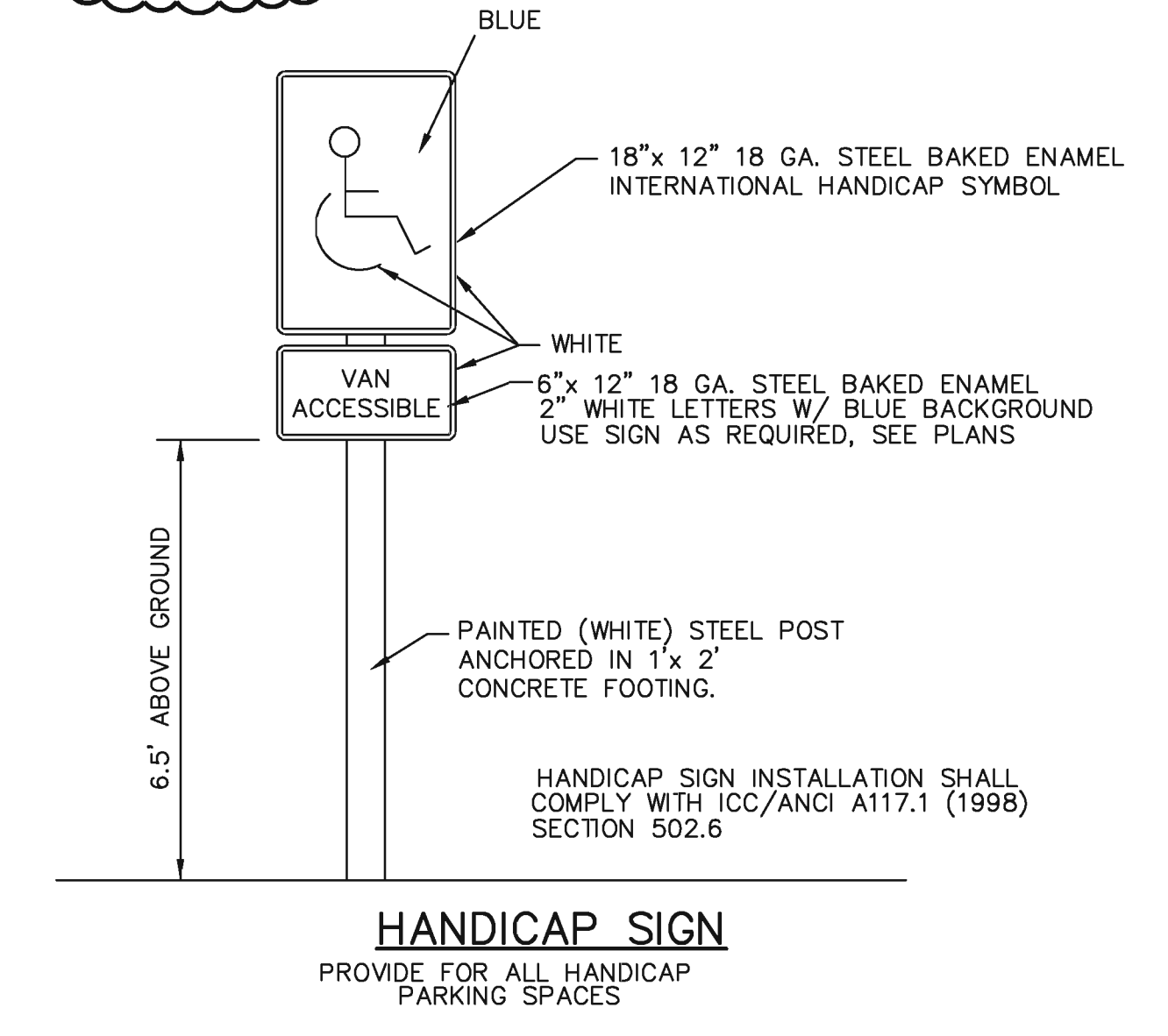
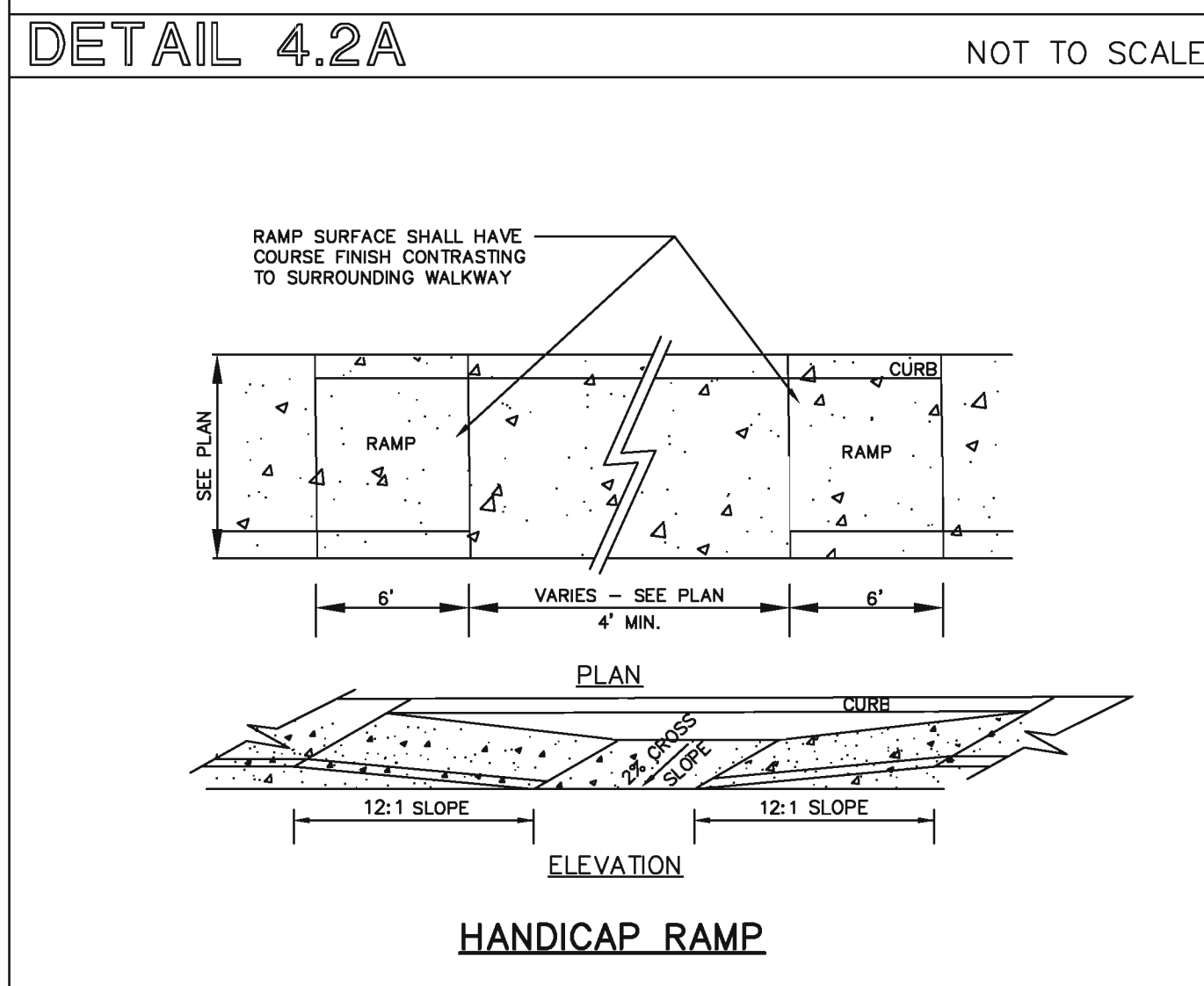
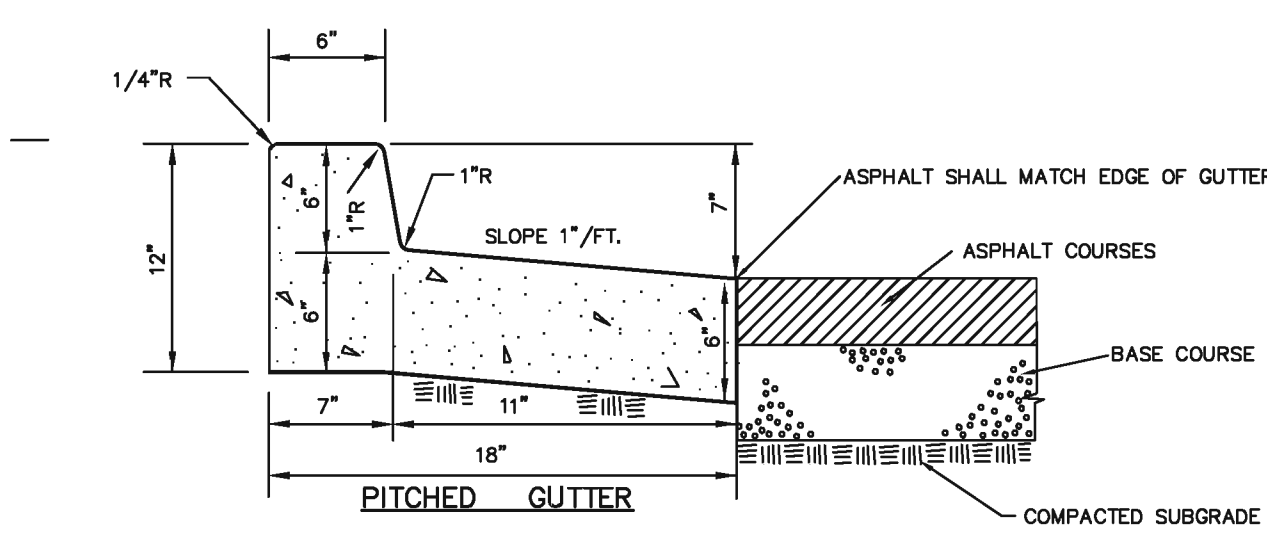
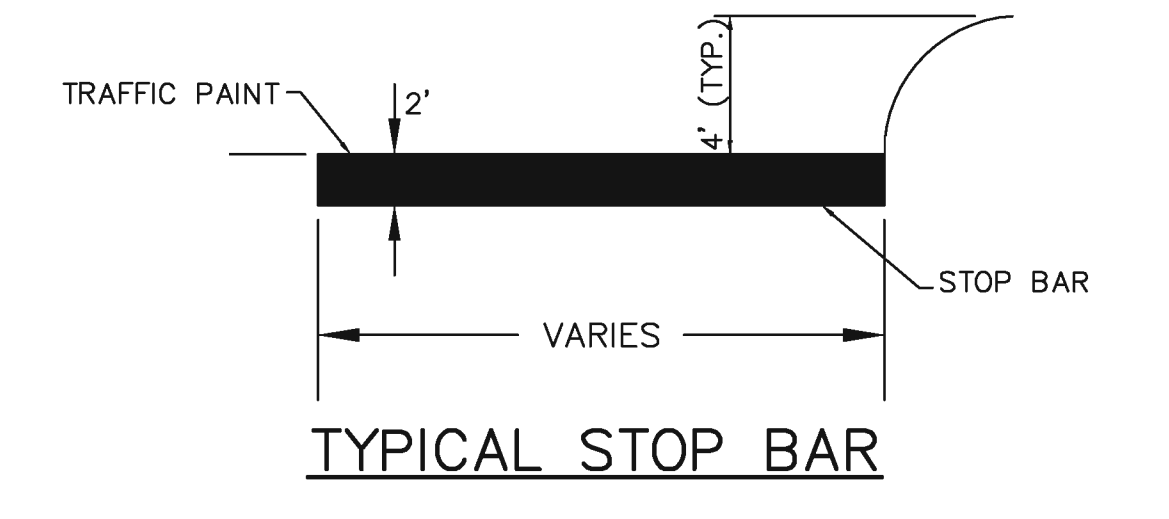
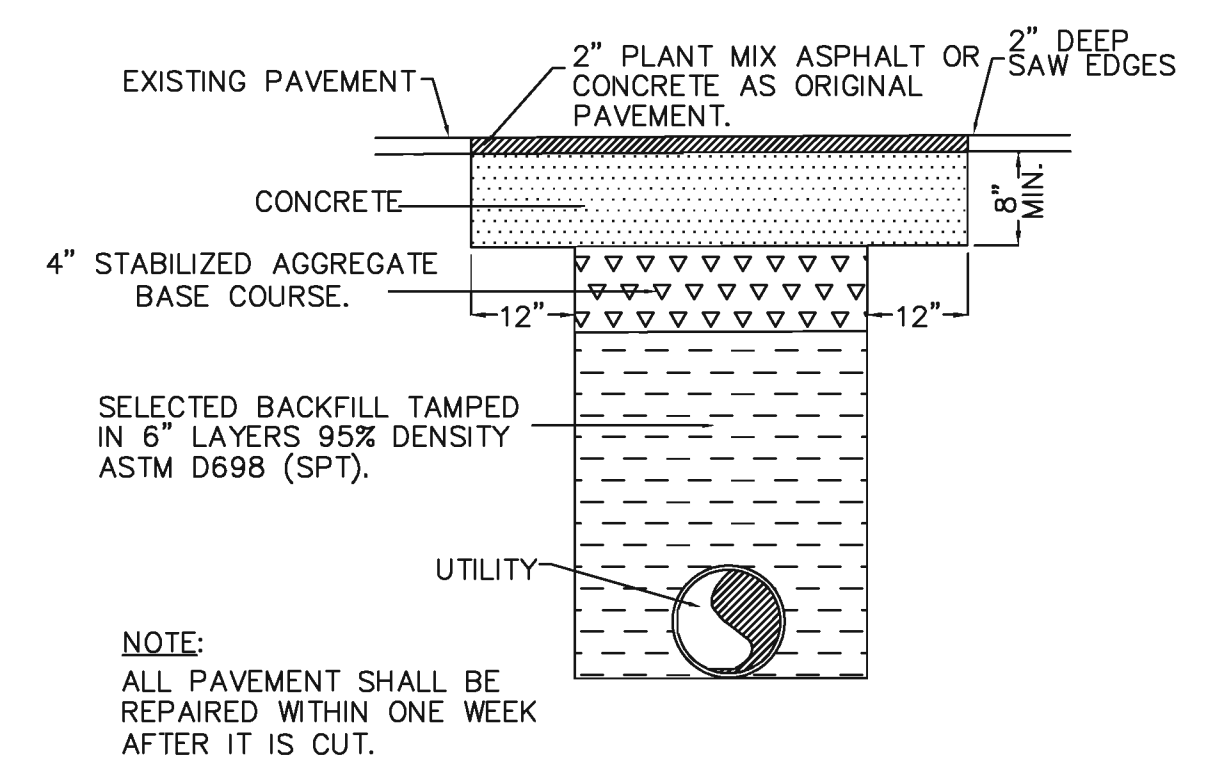
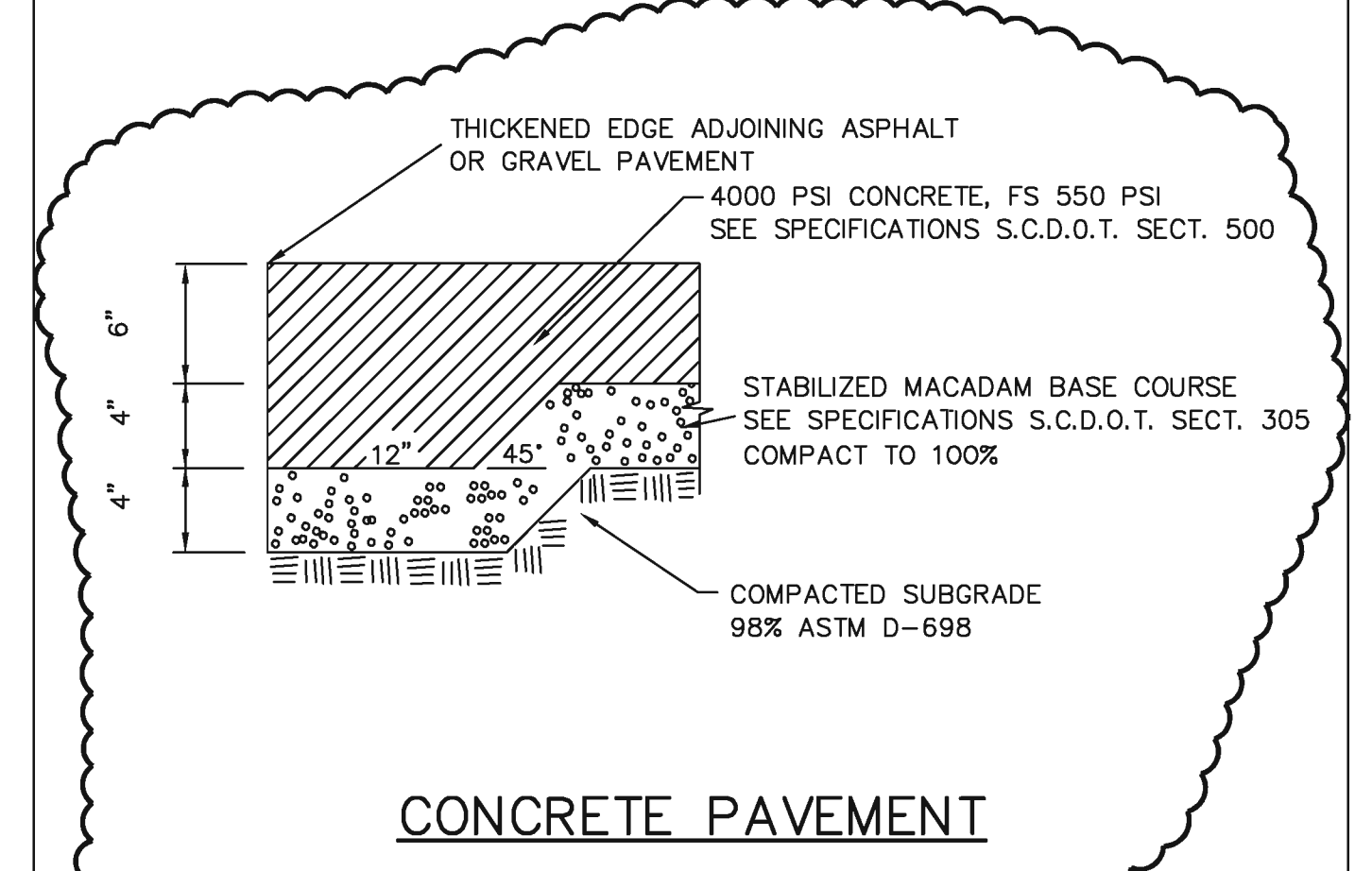
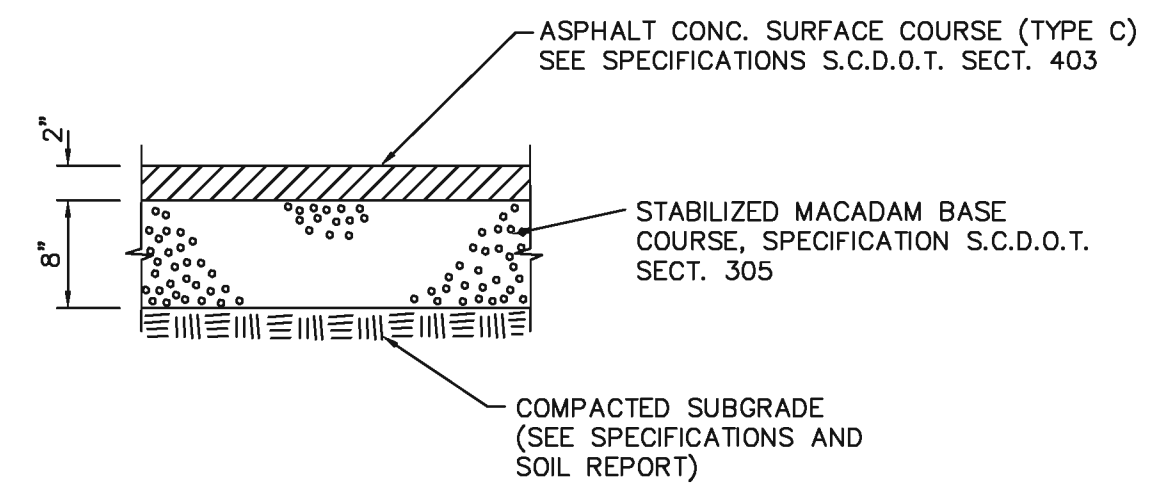
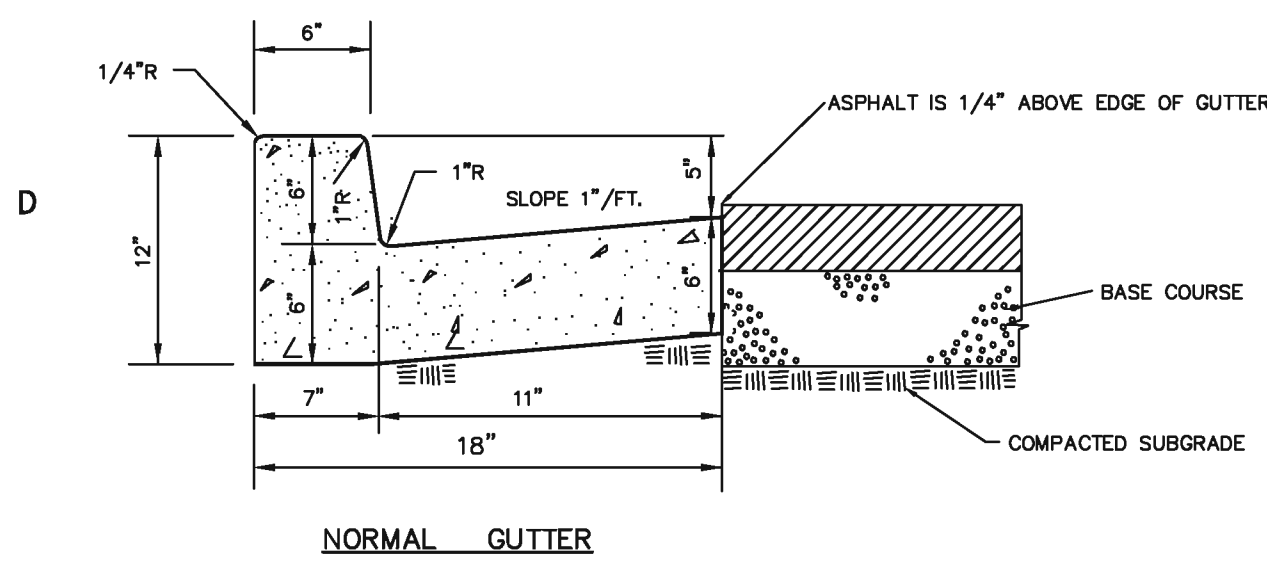
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB
SHEET TITLE:

GRADING PLAN

SHEET NO. PROJ. NO.
020063.00

CV3.1

1 INCH = 40 FEET



mcmillan pazdan smith
ARCHITECTURE

BLACKWOOD ASSOCIATES INC.
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PO BOX 366
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864-583-5432 FAX-583-5434

STATE OF SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
No. 3923
WILLIAM A. BLACKWOOD
06-12-2021

SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

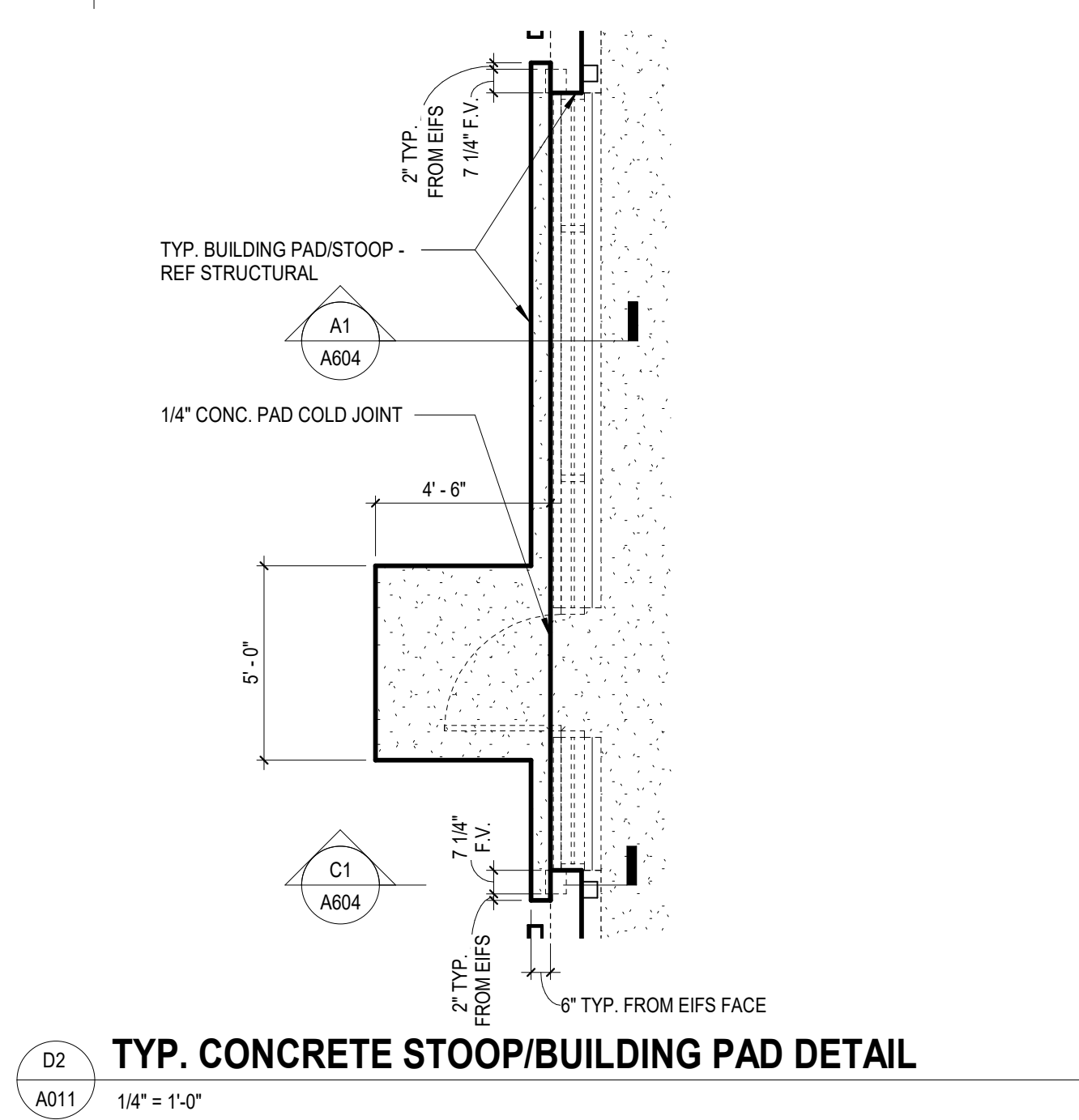
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET TITLE: **SITE DETAILS**

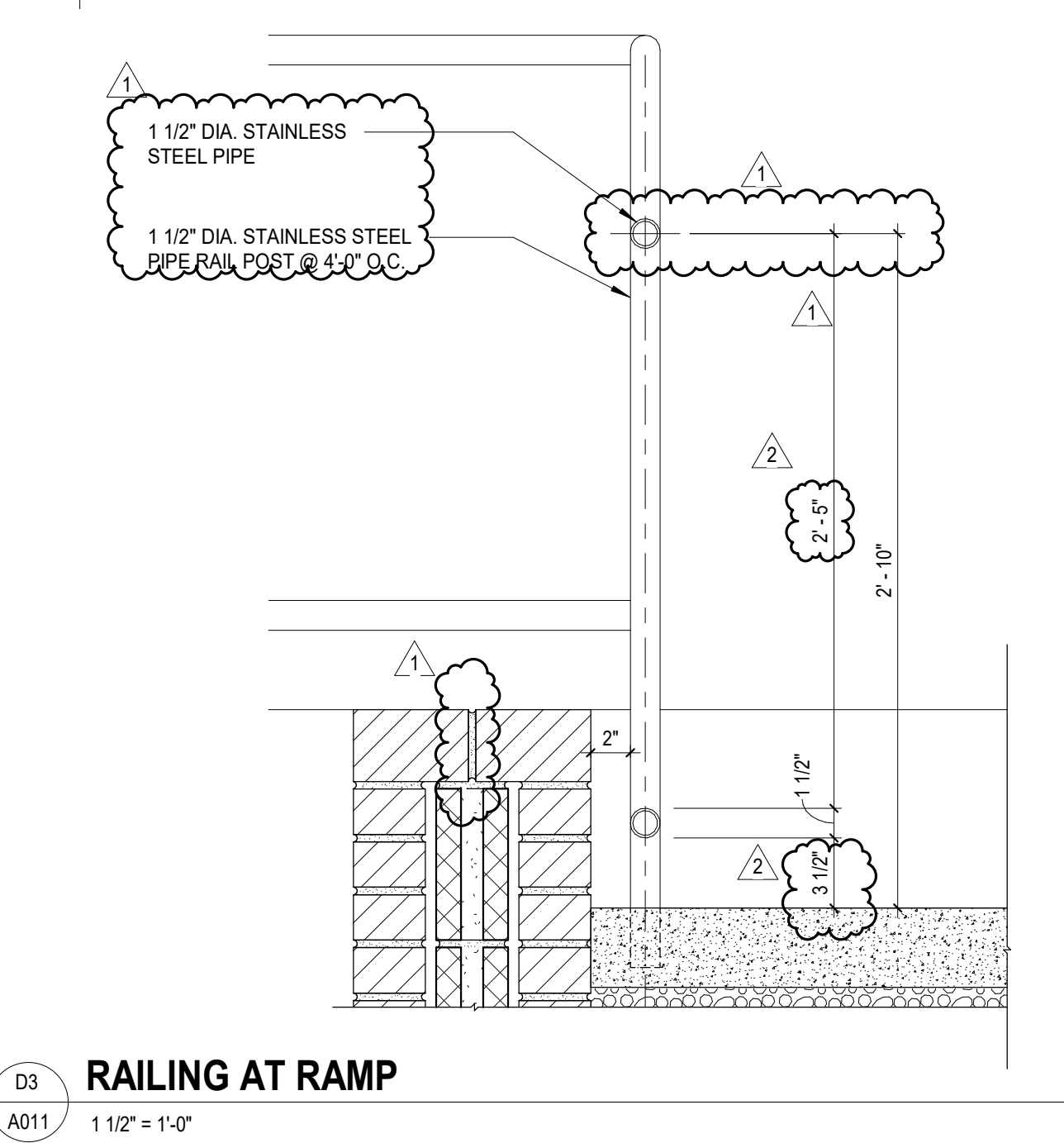
CONSTRUCTION DOCUMENTS 04/19/2021

PRINCIPAL IN CHARGE: WAB
PROJECT ENGINEER: WAB
DRAWN BY: WAB

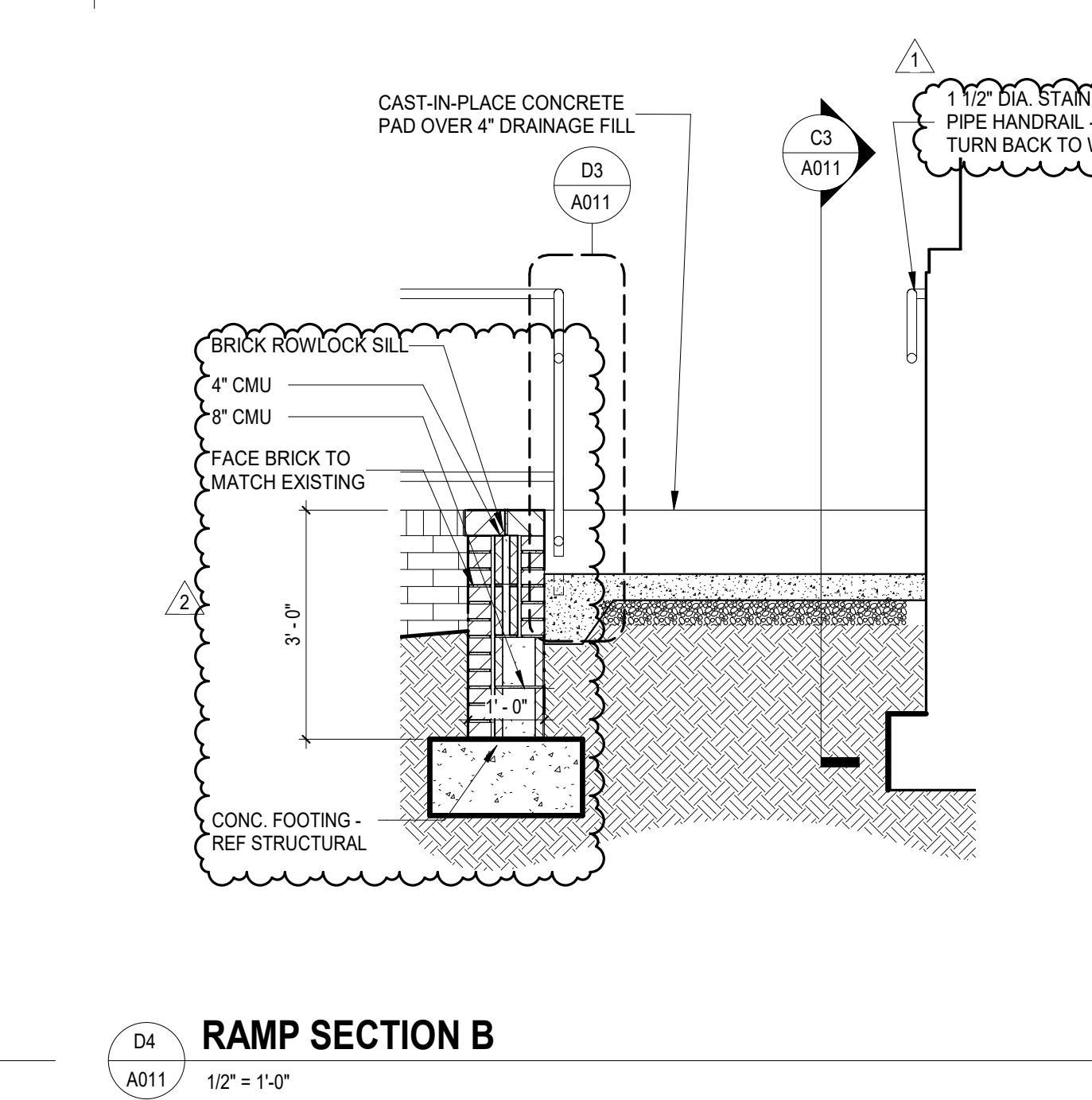
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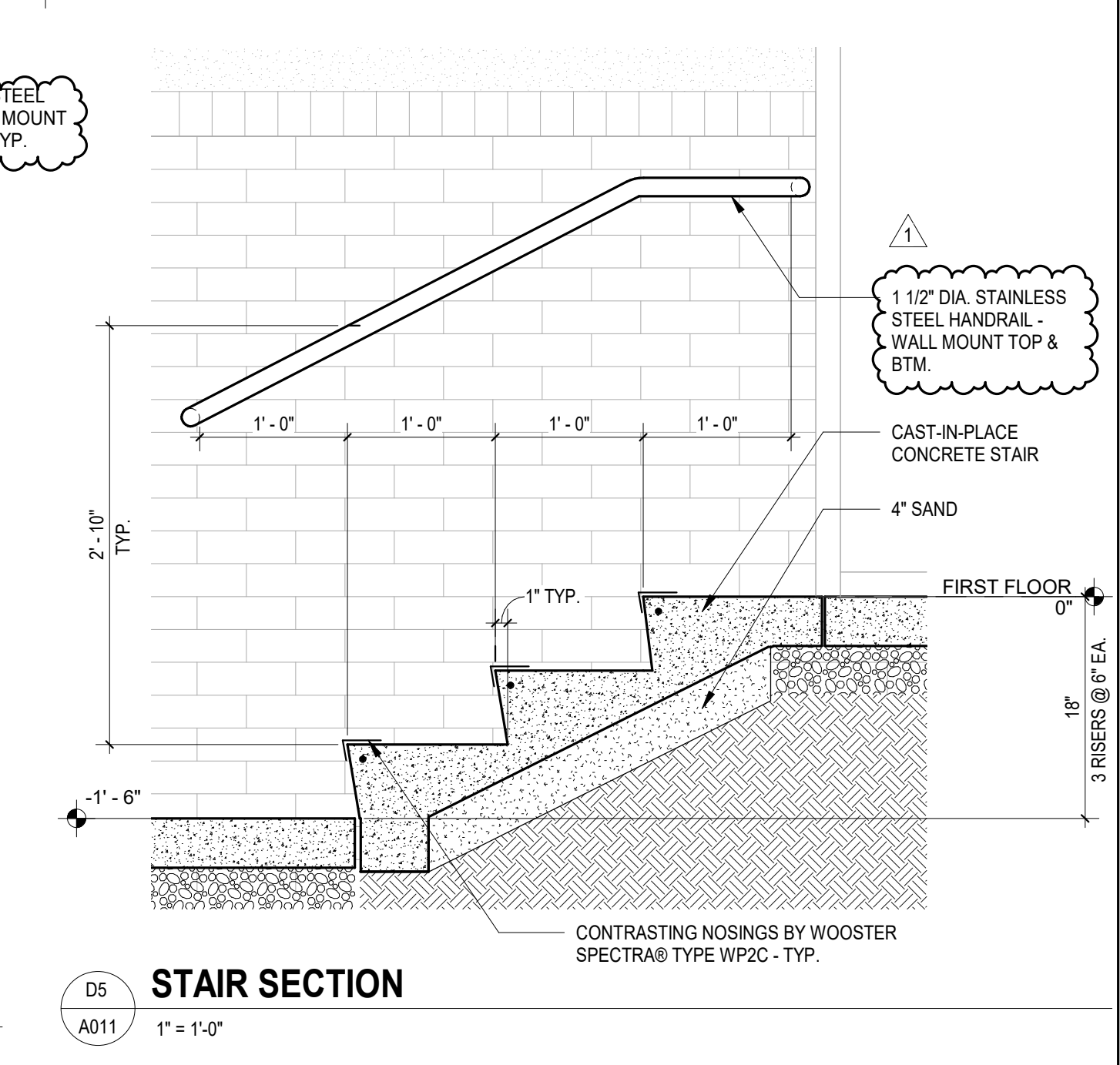
D2
A011
1/4" = 1'-0"



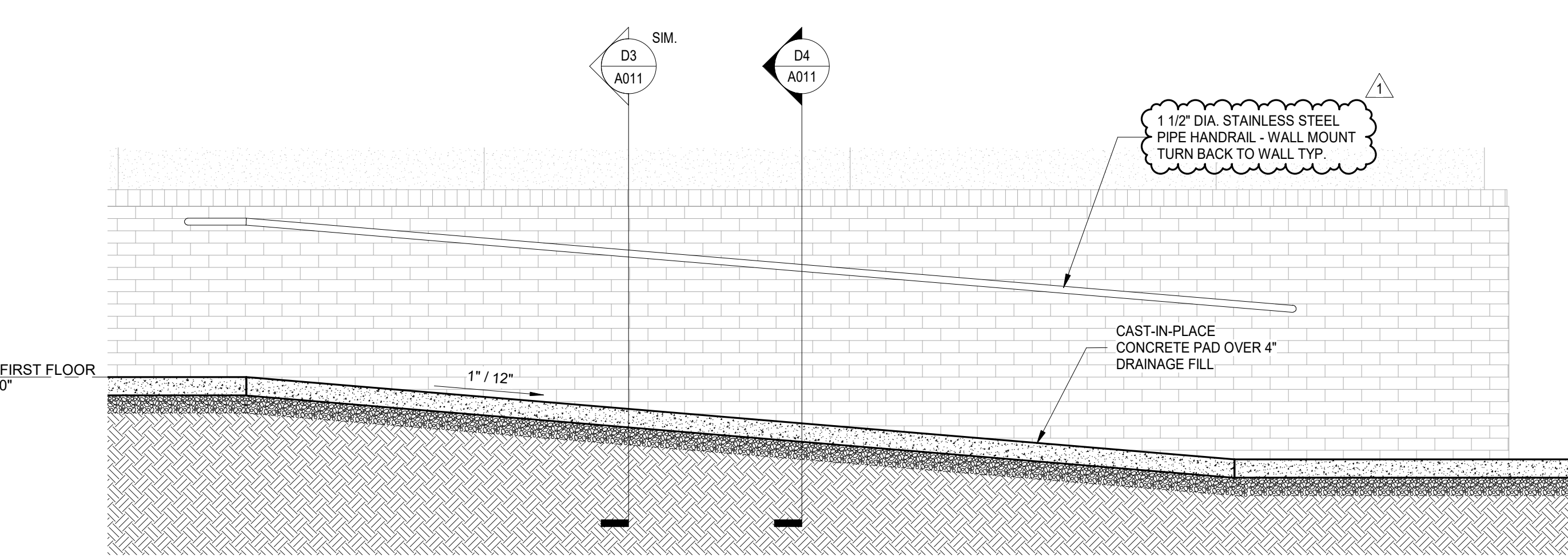
D3
A011
1 1/2" = 1'-0"



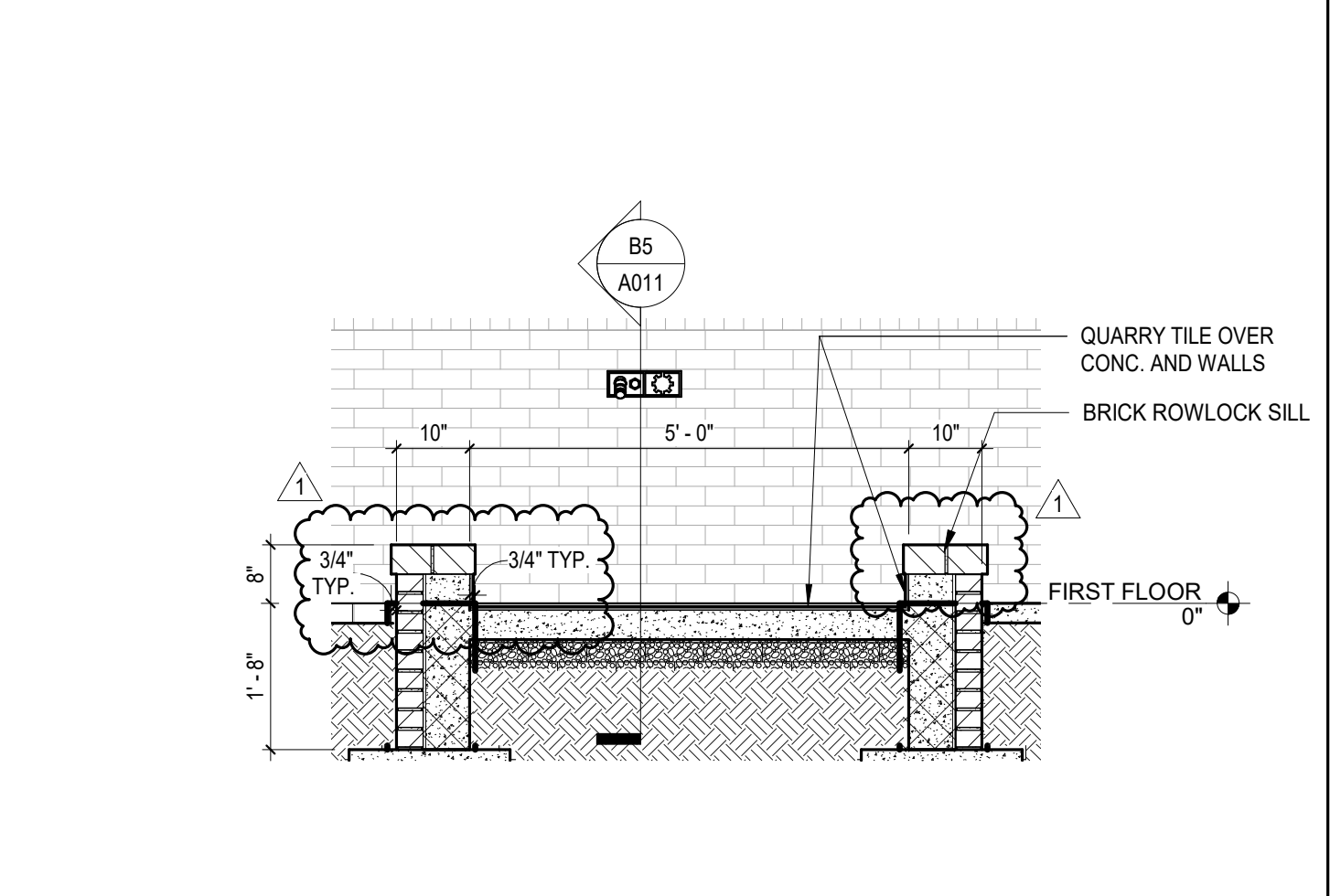
D4
A011
1/2" = 1'-0"



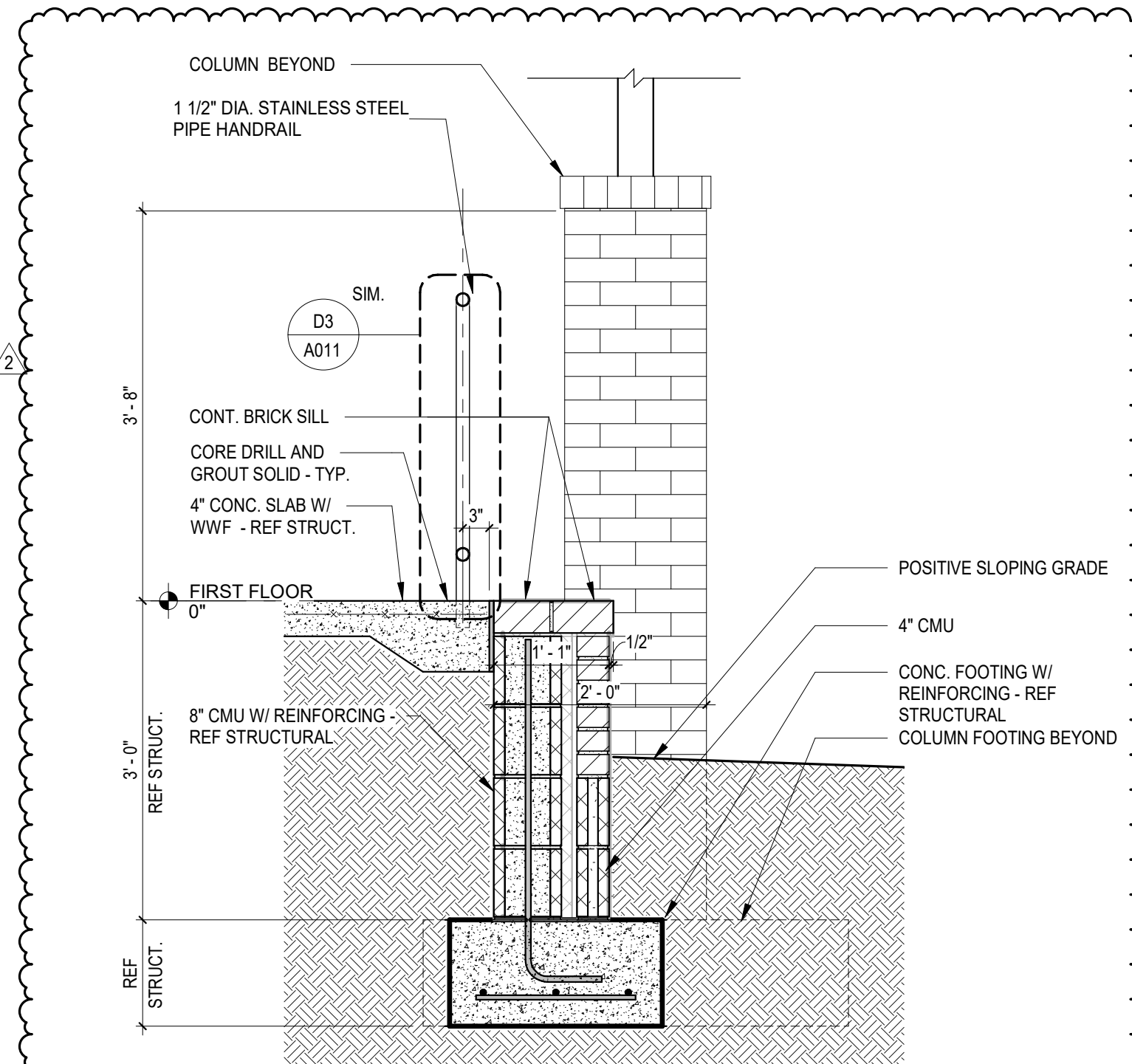
D5
A011
1" = 1'-0"



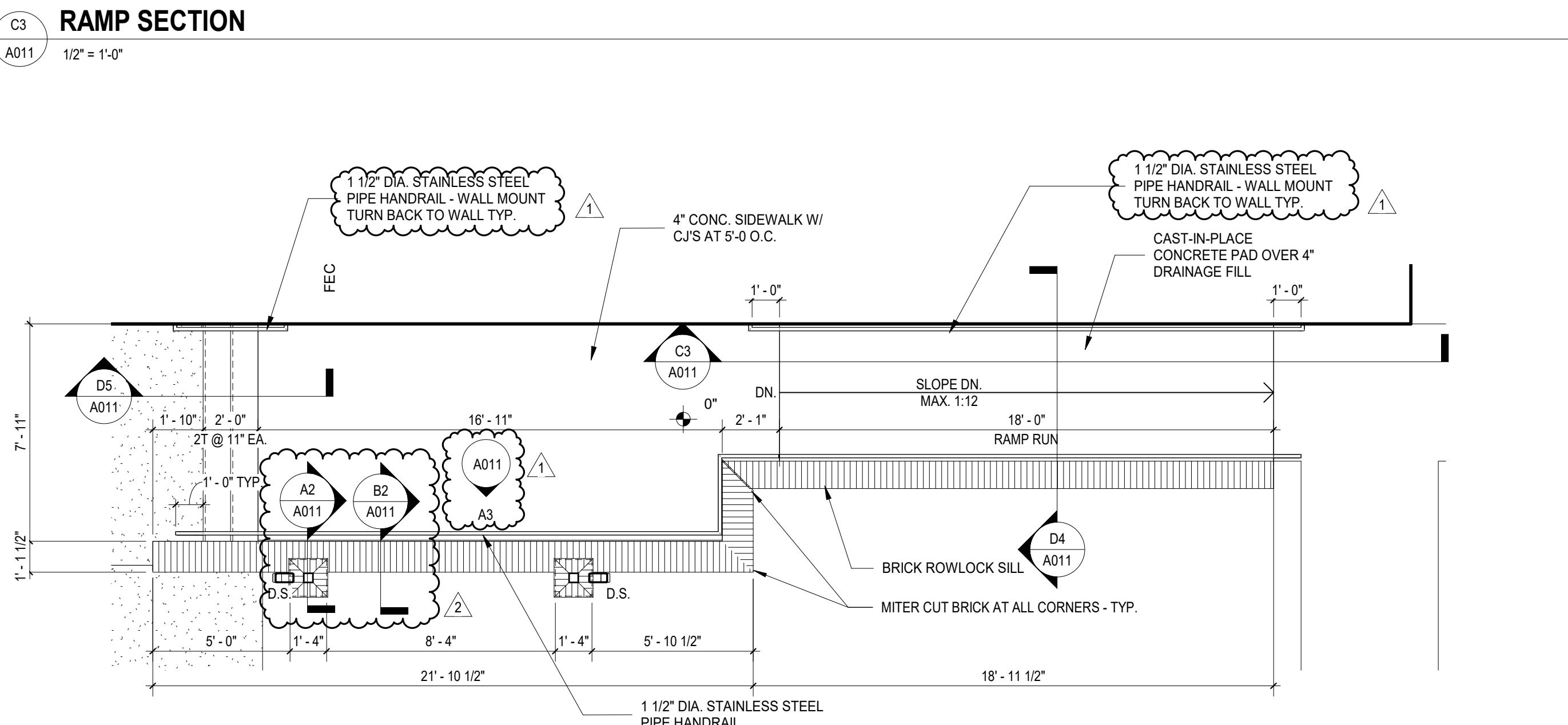
C3
A011
1/2" = 1'-0"



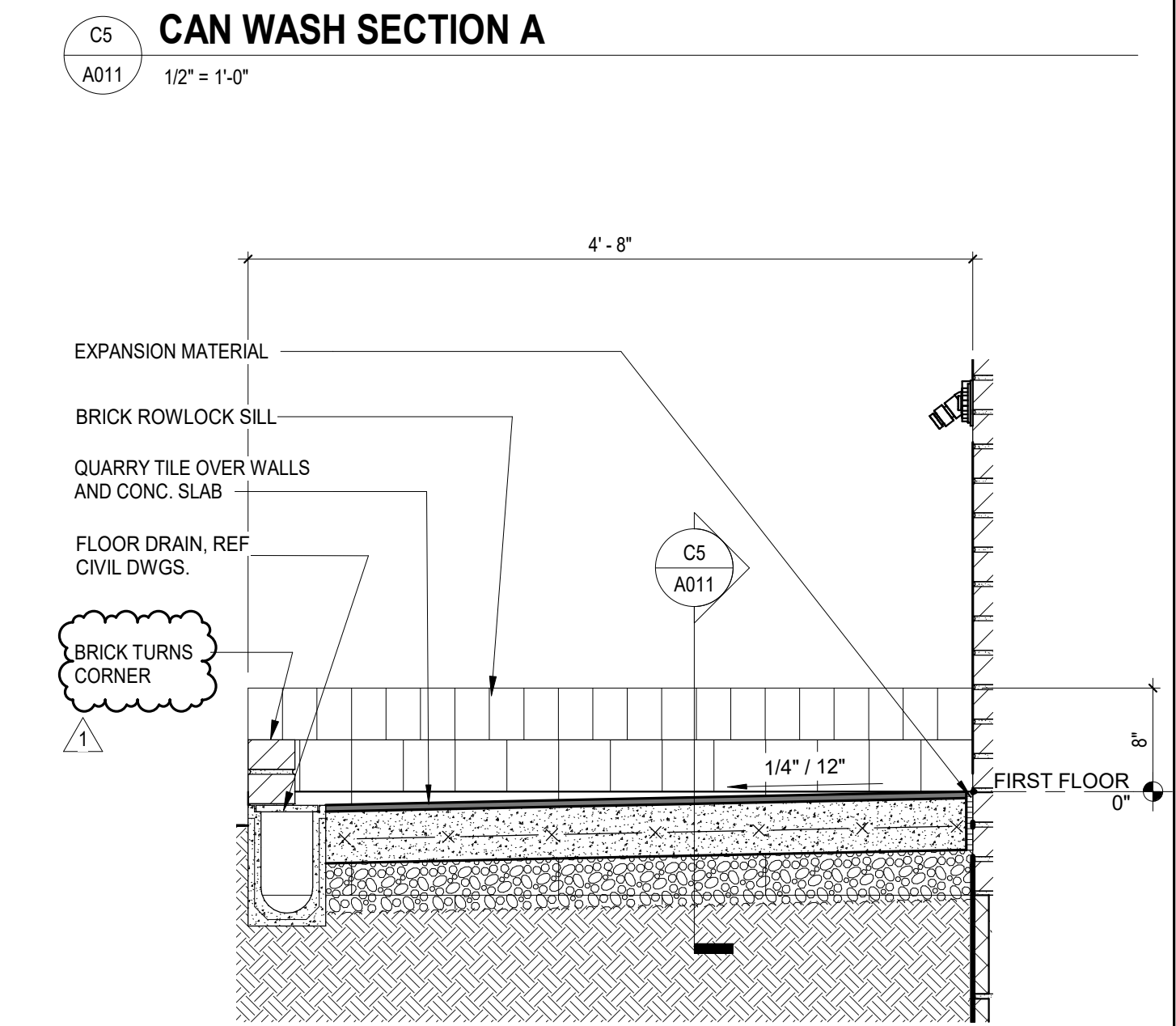
C5
A011
1/2" = 1'-0"



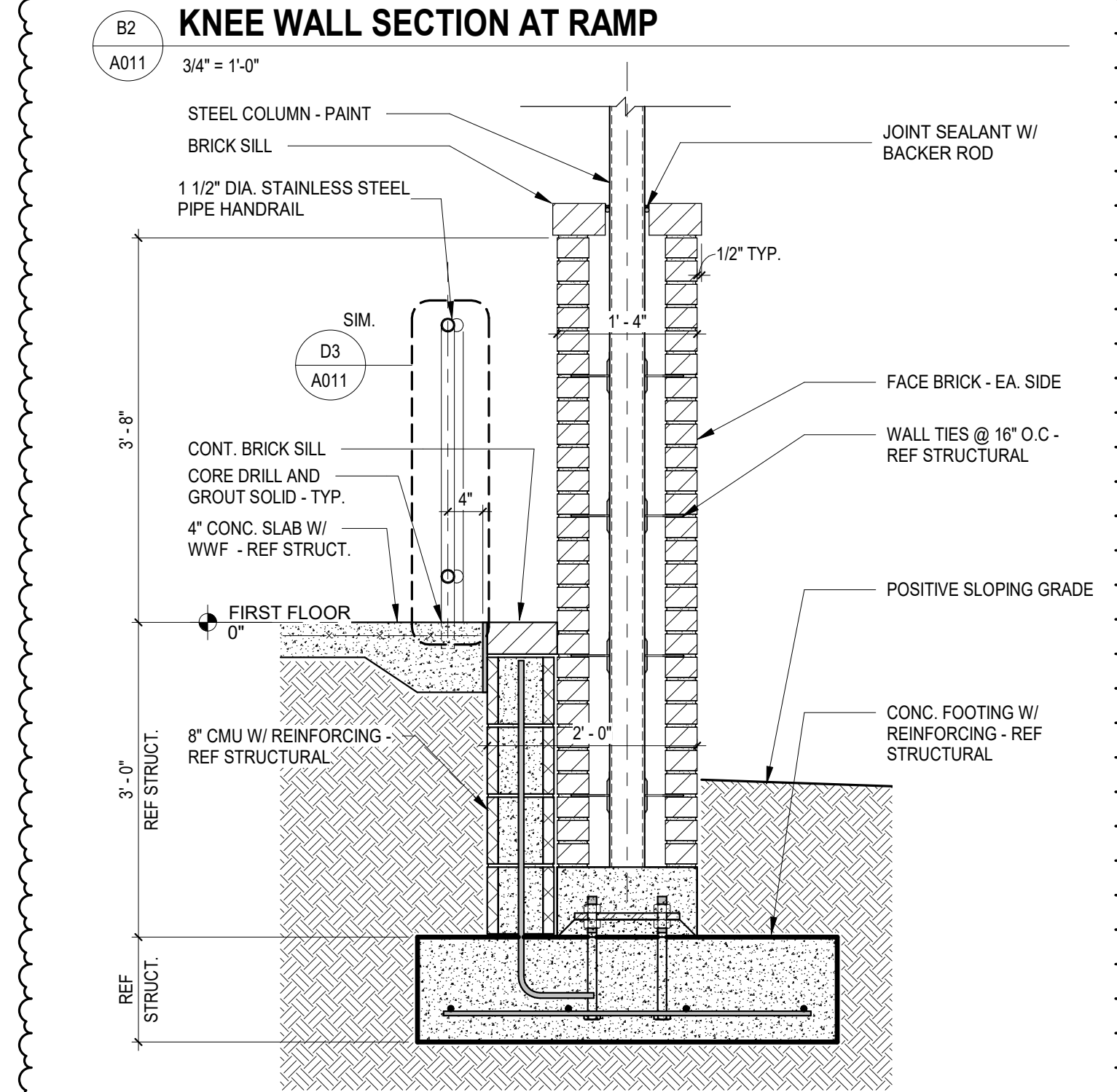
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3/4" = 1'-0"



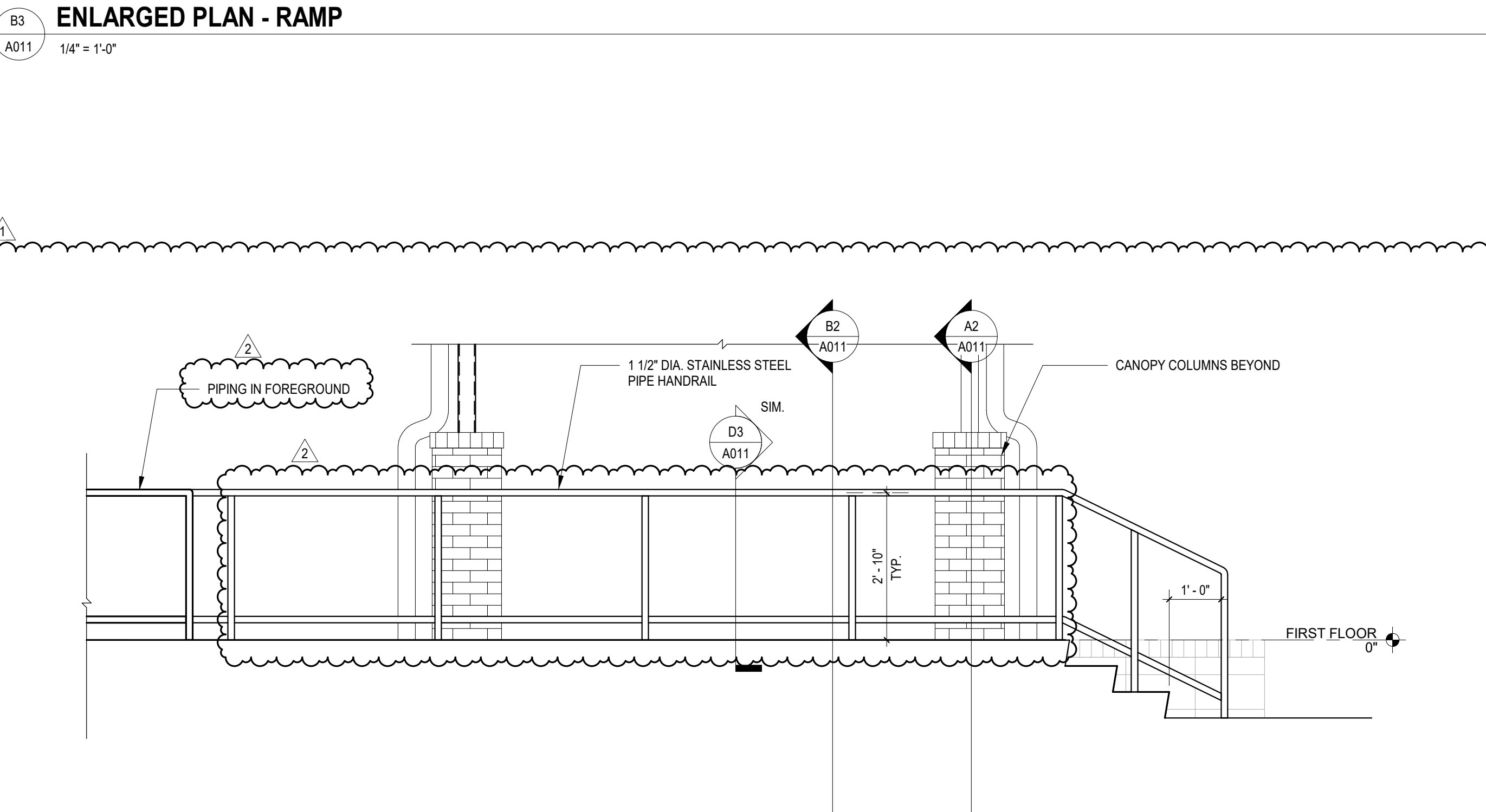
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A011
1/4" = 1'-0"



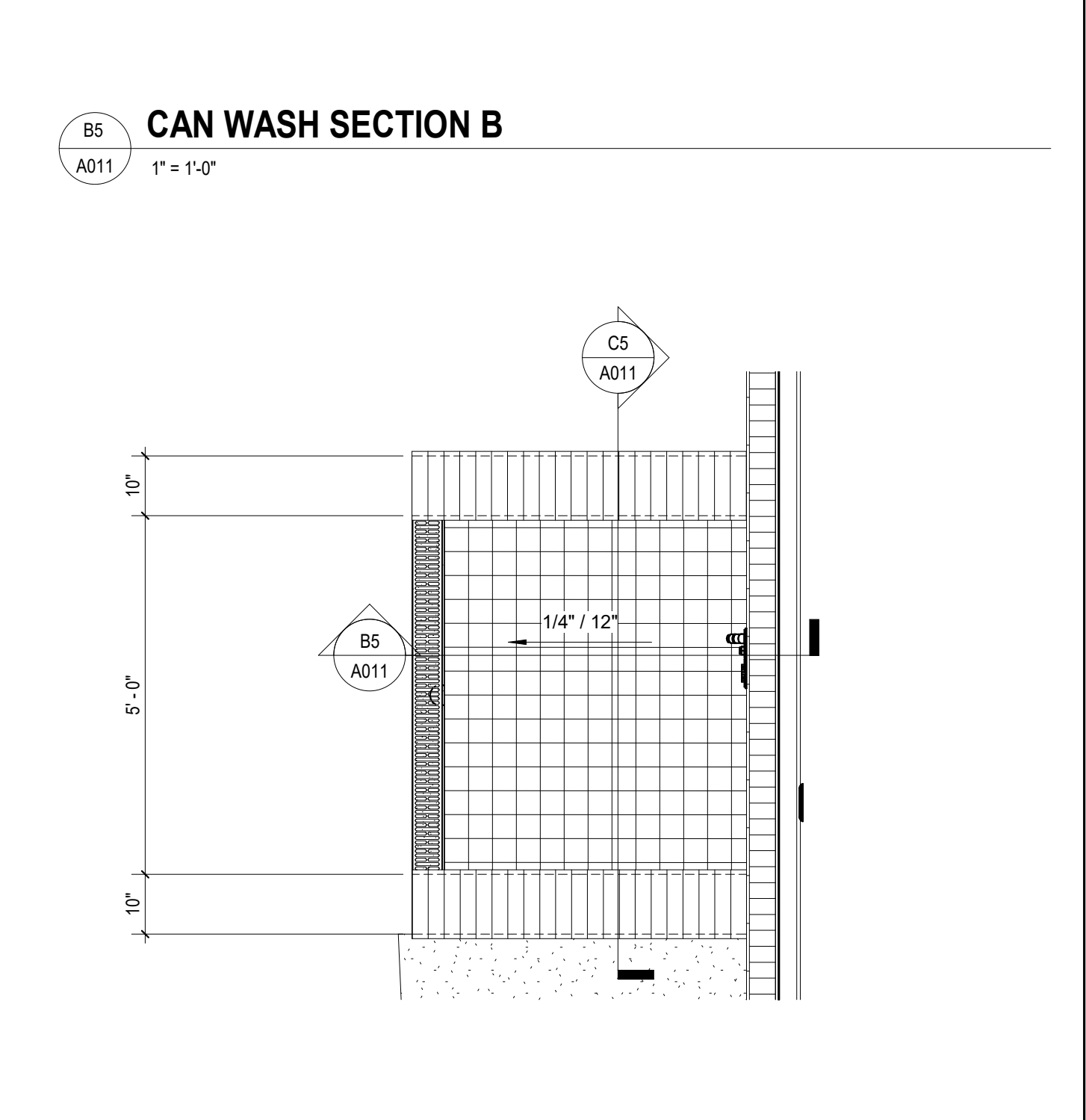
B5
A011
1" = 1'-0"



A2
A011
3/4" = 1'-0"



A3
A011
1/2" = 1'-0"



A5
A011
1/2" = 1'-0"

SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

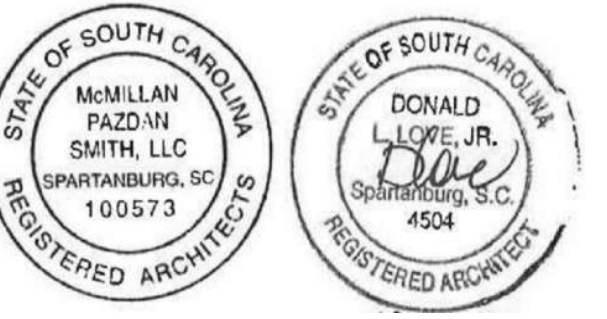
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JMO, JSW, DLC

SHEET TITLE:
ARCHITECTURAL SITE
PLAN & DETAILS

SHEET NO. PROJ. NO.
020063.00

A011

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SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
125 BURGETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

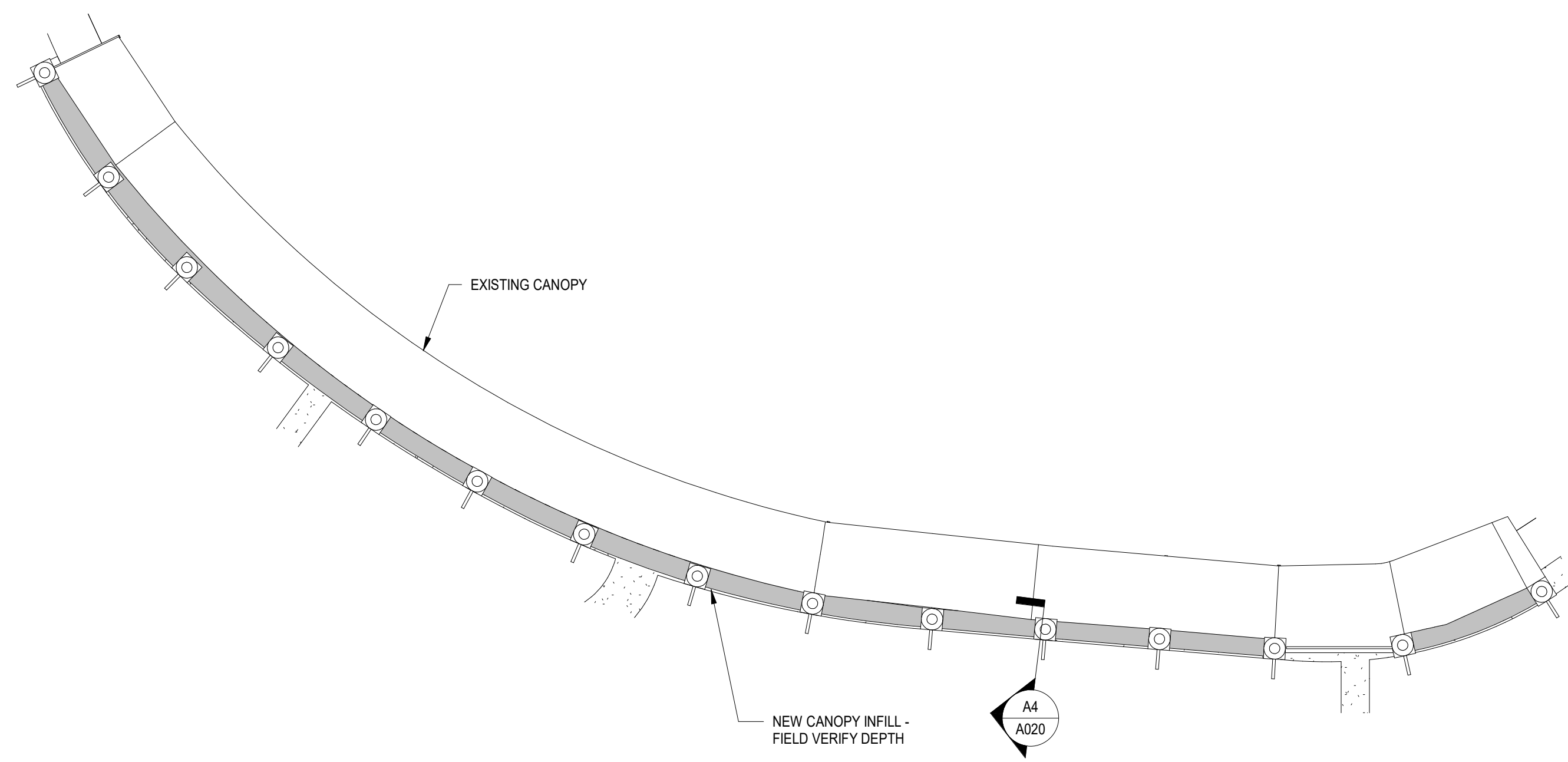
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2	05/12/2021	Addendum No. 2	DLL

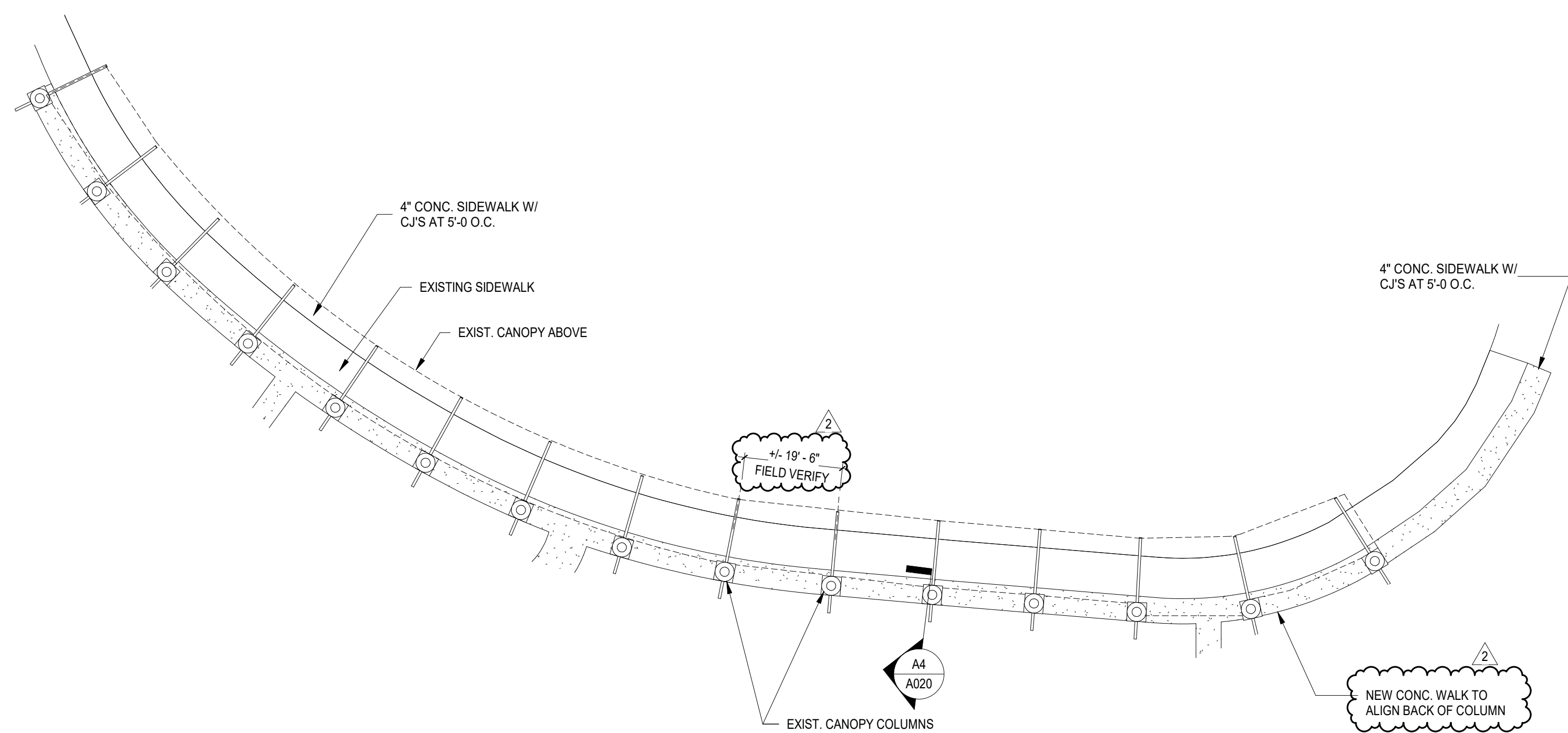
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JMO, JSW, D.LC

SHEET TITLE:
CANOPY PLANS

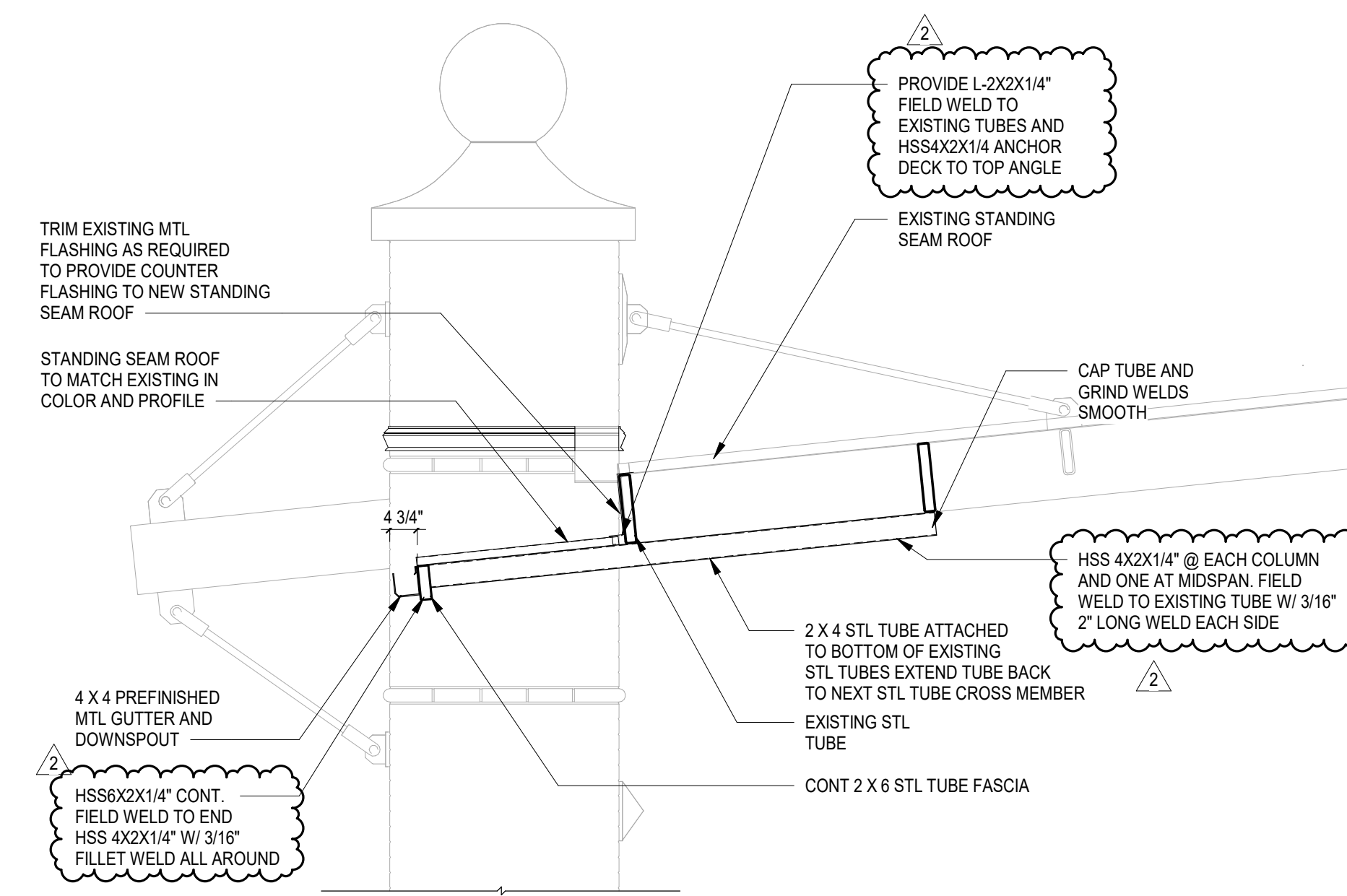
SHEET NO. PROJ. NO.
A020 020063.00



B1 BUS CANOPY - ROOF PLAN
A020 1" = 20'-0"



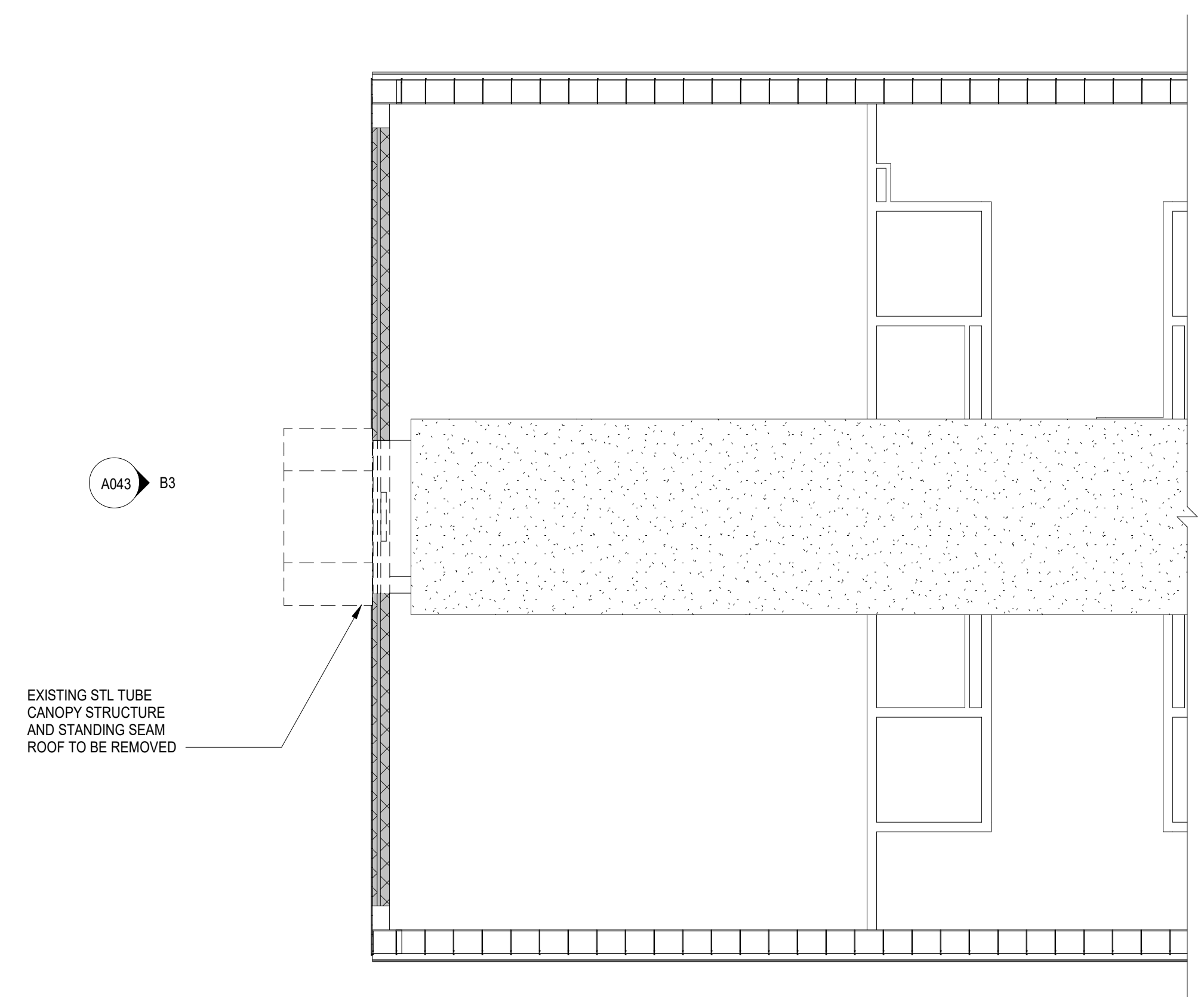
A1 BUS CANOPY - FLOOR PLAN
A020 1" = 20'-0"



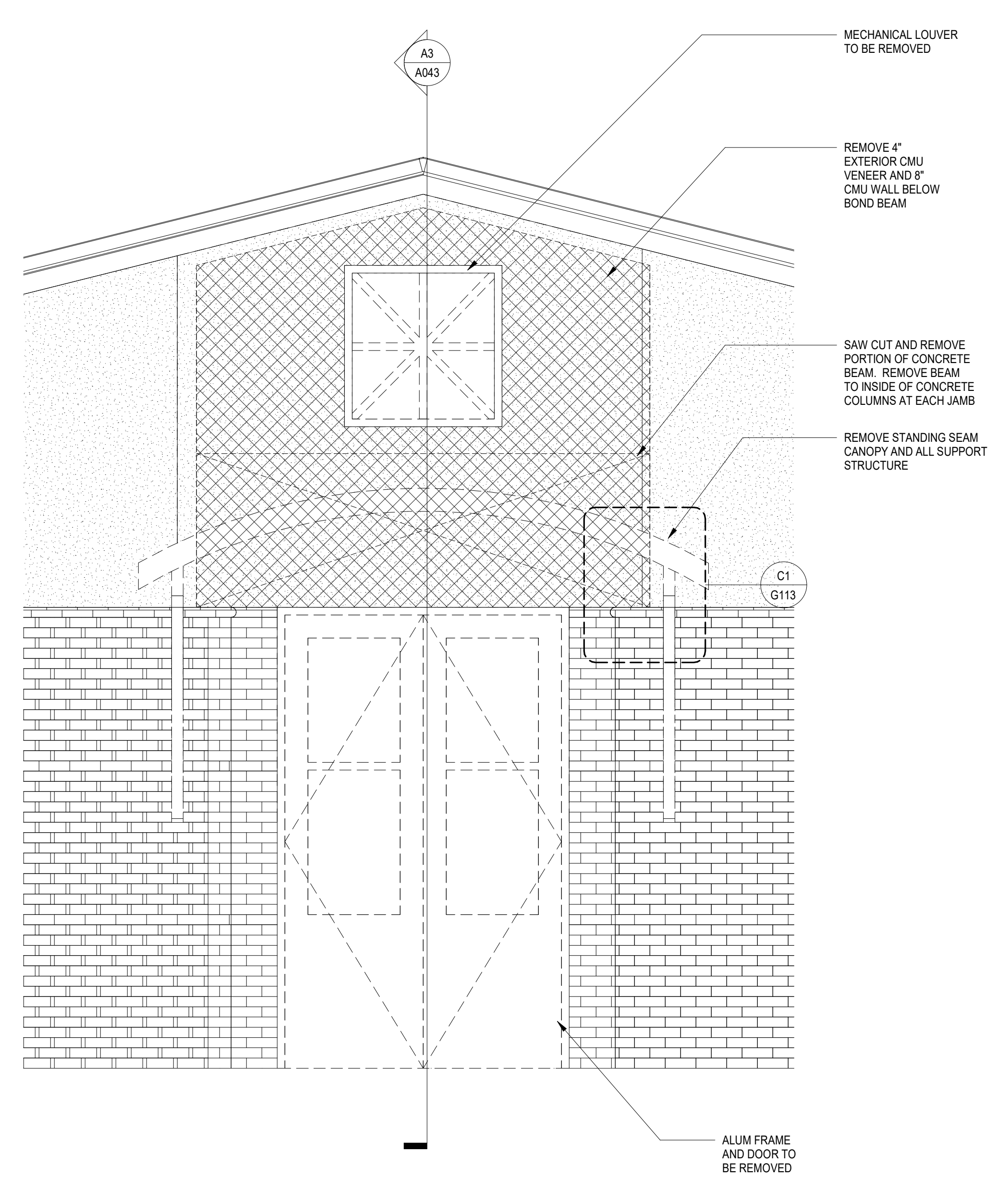
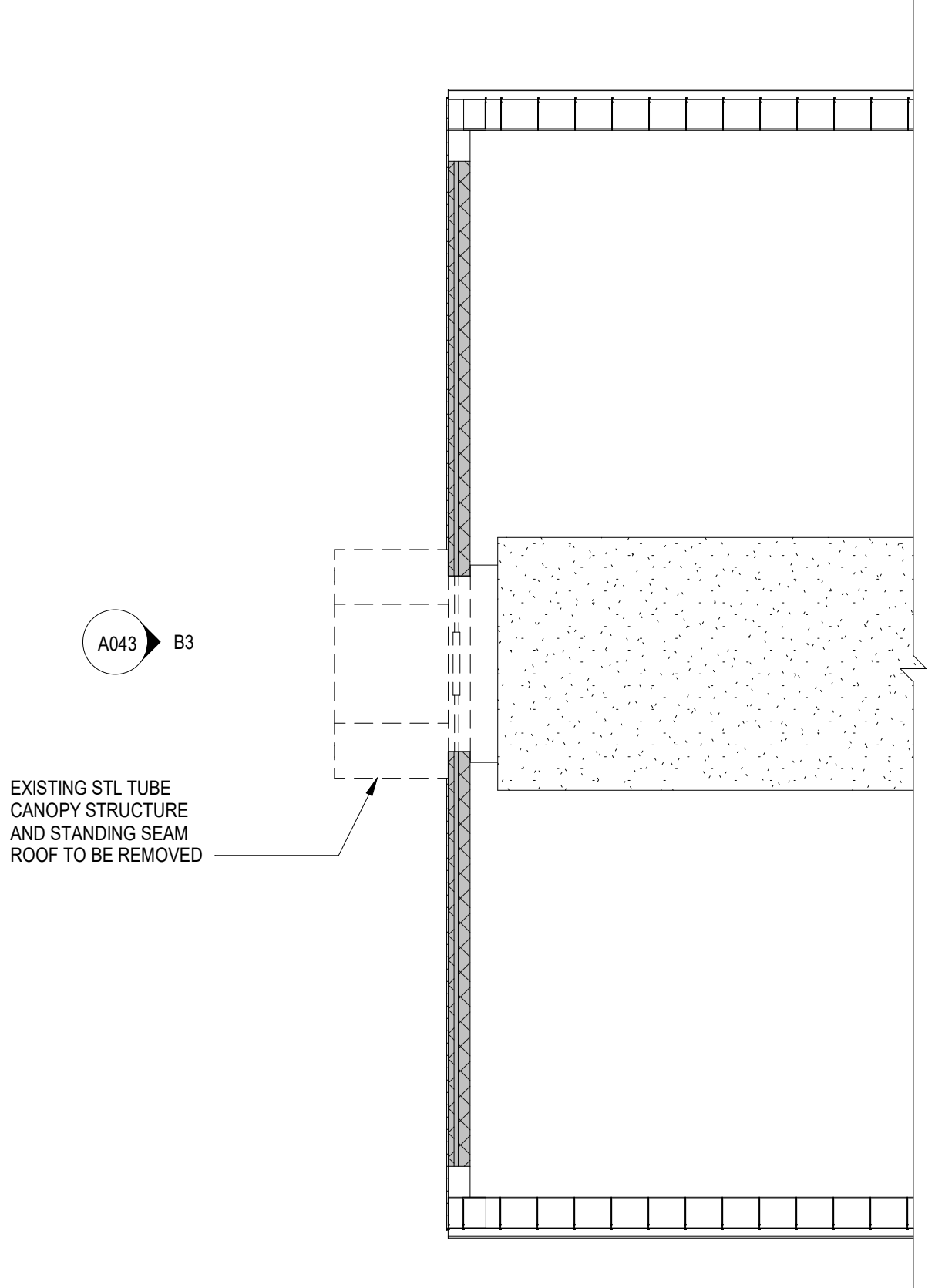
A4 TYP. CANOPY SECTION
A020 1/2" = 1'-0"

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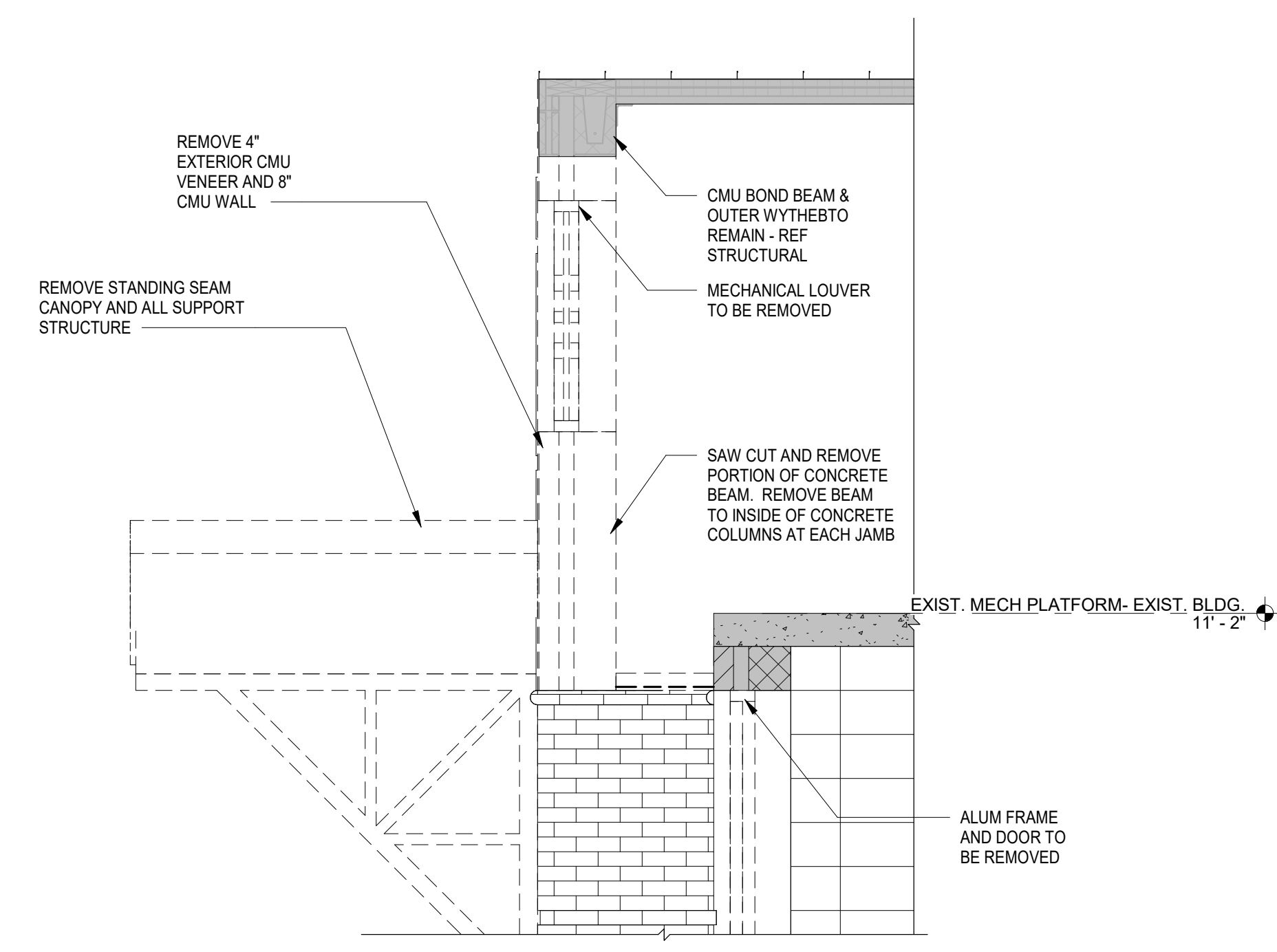
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A1
A043 1/8" = 1'-0"
EXISTING BUILDING DEMOLITION PLAN - MECH. PLATFORM



B3
A043 1/2" = 1'-0"
DEMO ELEVATION

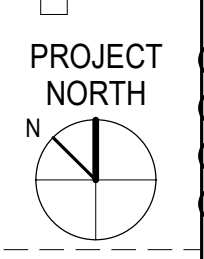
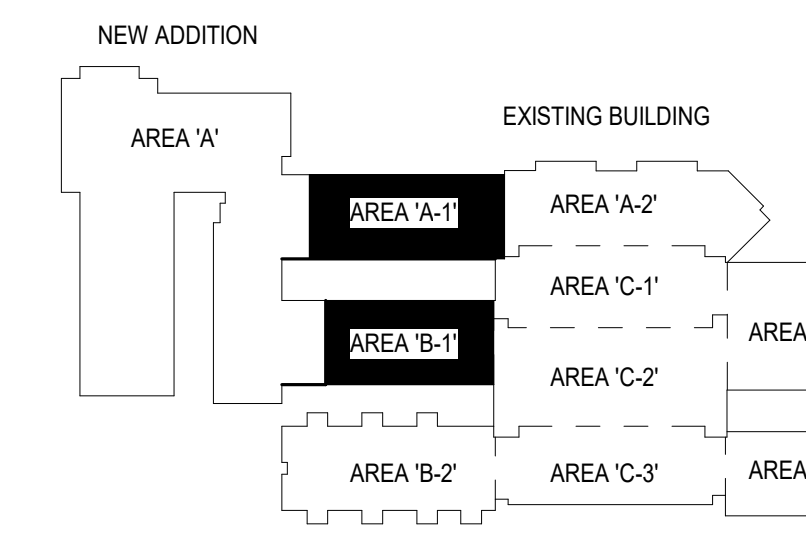


A3
A043 1/2" = 1'-0"
SECTION AT EXISTING CANOPY

GENERAL NOTES - DEMOLITION PLAN

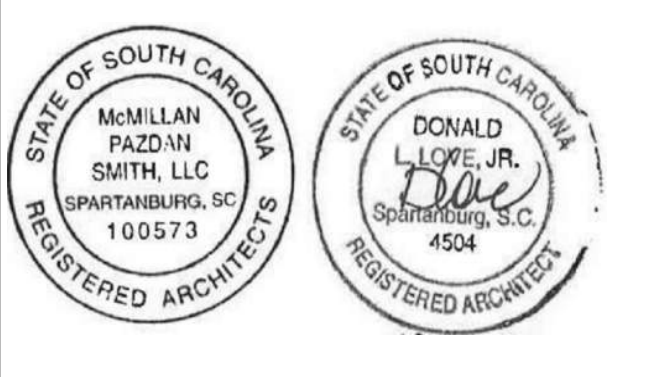
DEMOLITION KEYNOTES

KEY PLAN



CONSULTANT LOGO

SEALS



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 175 BURGETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

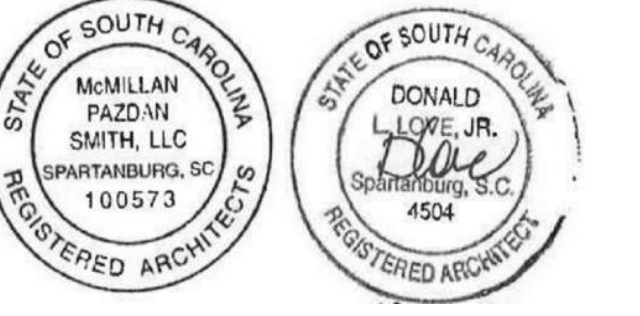
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, D.C.

SHEET TITLE:
EXIST. BUILDING DEMOLITION PLAN - MECH. PLATFORM

SHEET NO. PROJ. NO. 020063.00

A043



SPARTANBURG SCHOOL DISTRICT 7
**ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL**
125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

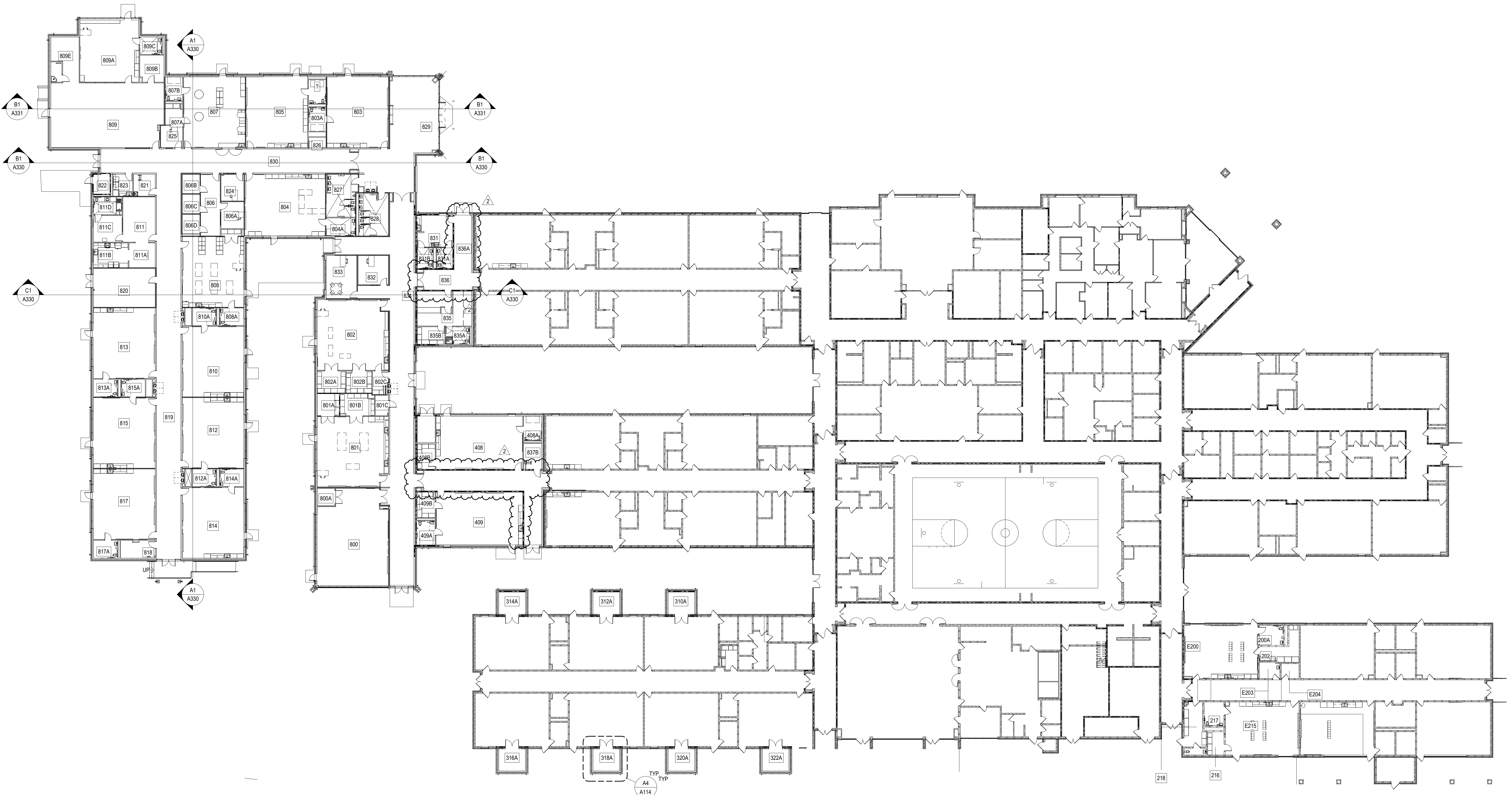
NO.	DATE	DESCRIPTION	BY
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS	04/19/2021
PRINCIPAL IN CHARGE:	DLL
PROJECT ARCHITECT:	DLL
DRAWN BY:	JMO, JSW, DLC

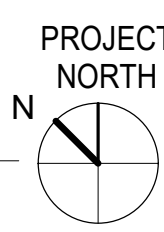
SHEET TITLE:
OVERALL FLOOR PLAN

SHEET NO.	PROJ. NO.
A100	020063.00

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A1
OVERALL FLOOR PLAN
1" = 20'-0"



PLAN LEGEND

- ROOM NAME (00999) ROOM NUMBER, SEE FINISH SCHEDULE ON SHEET ID101
- 122A 1hr FE DOOR NUMBERS, SEE DOOR SCHEDULE ON SHEET A800
- FEC BRACKET MOUNTED FIRE EXTINGUISHER B.C DRY CHEMICAL - MOUNT 4'-0" A.F.F. MAX. TO TOP
- ZZ RECESSED FIRE EXTINGUISHER CABINET W/ FIRE EXTINGUISHER 4'-0" TO TOP
- 3 HR FIRE RATING
- 1 HR FIRE RATING
- WALL WITH SOUND ATTENUATION BATTS

NOTE:
1. ONLY SLOPE FLOOR AROUND AREA DRAINS ON A 2'-0" RADIUS AT 1/8" PER FOOT.



CONSULTANT LOGO

SEALS



SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

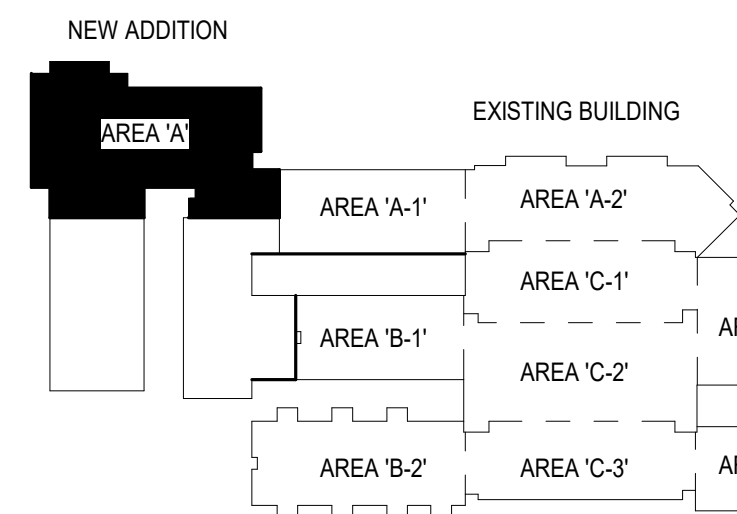
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

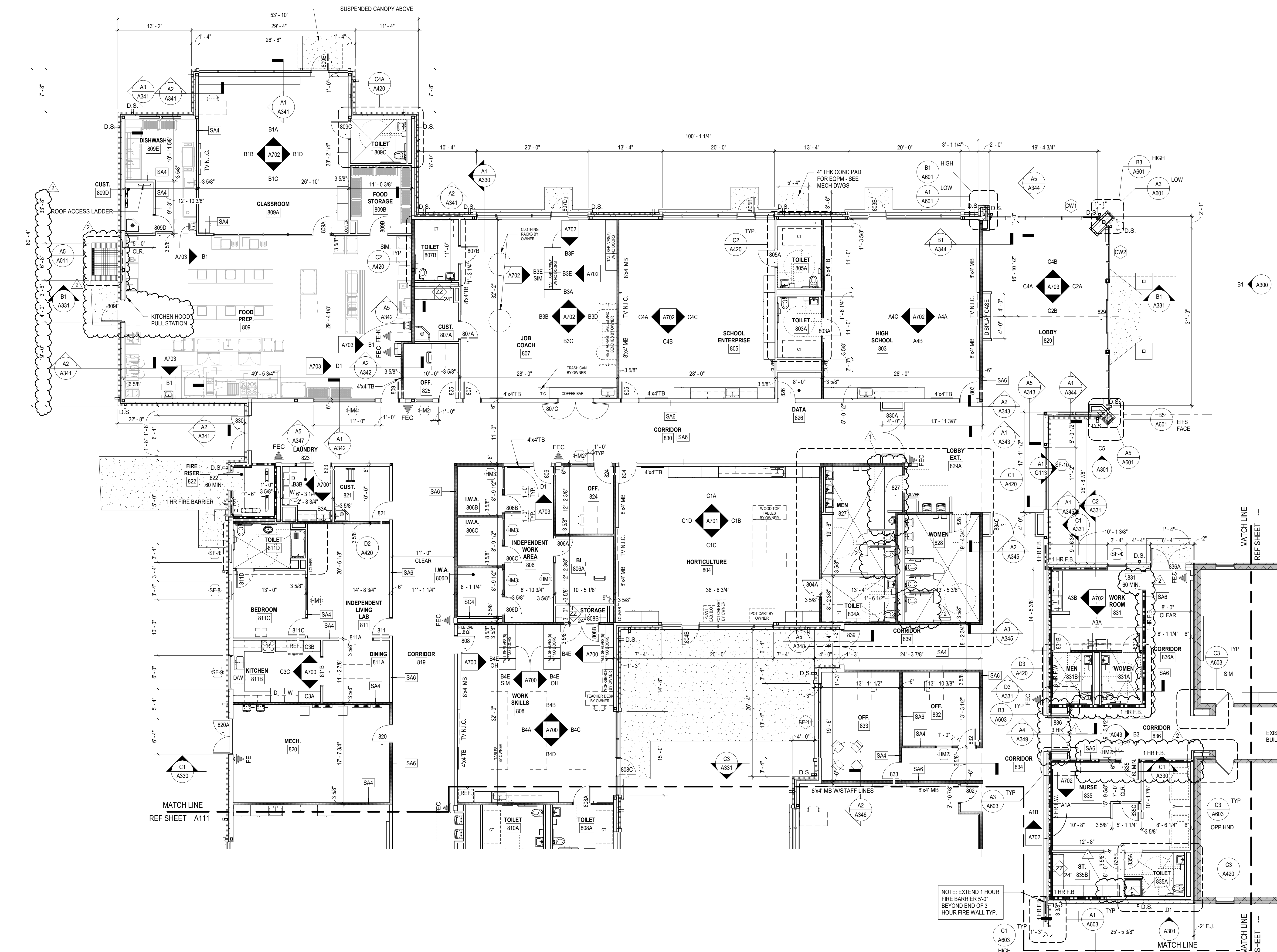
SHEET TITLE:
FLOOR PLAN - AREA 'A'

SHEET NO. PROJ. NO. 020063.00

KEY PLAN



A110



NOTE: EXTEND 1 HOUR FIRE BARRIER 5'-0" BEYOND END OF 3 HOUR FIRE WALL TYP.

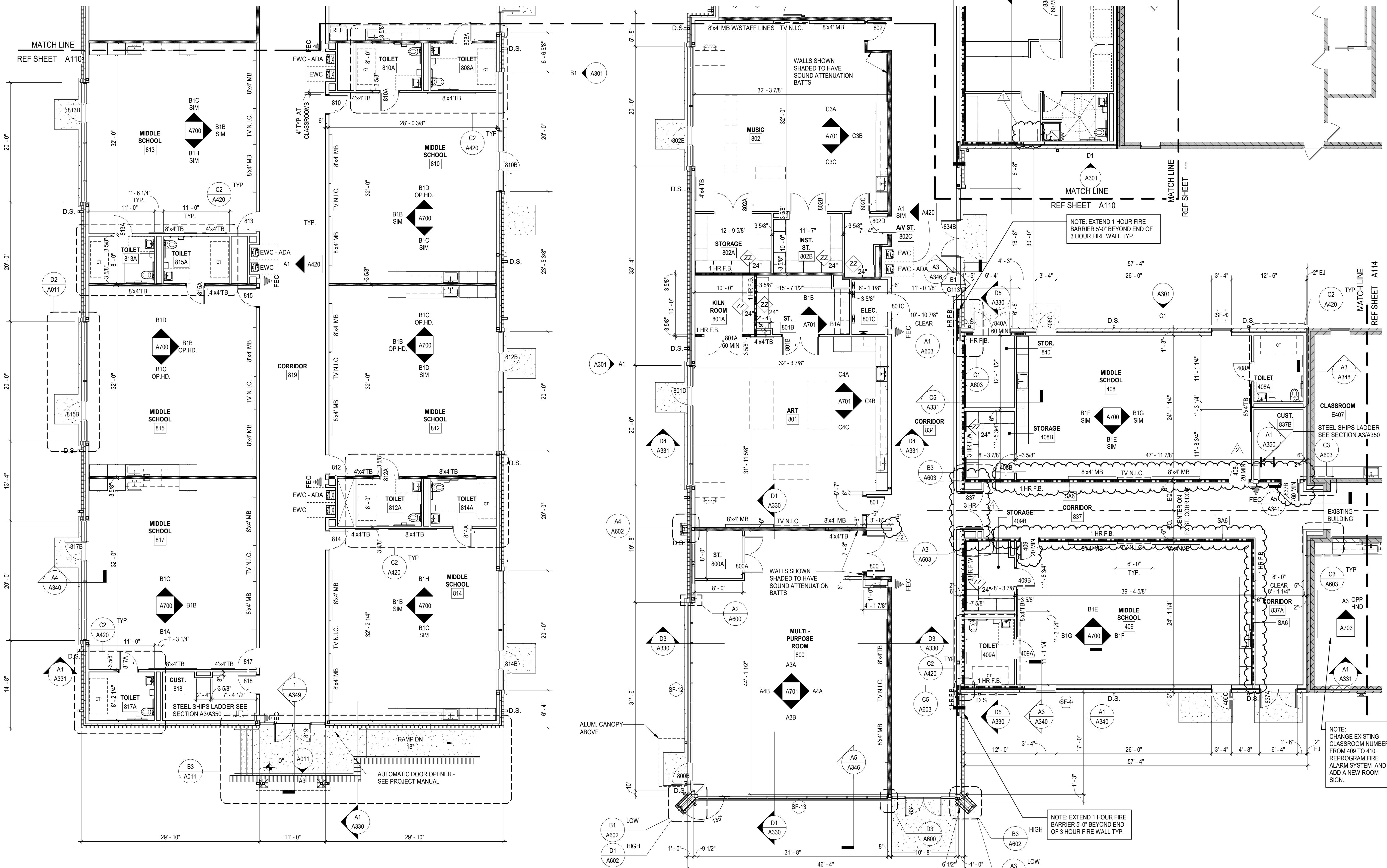
A1 FLOOR PLAN - AREA 'A'
1/8" = 1'-0"

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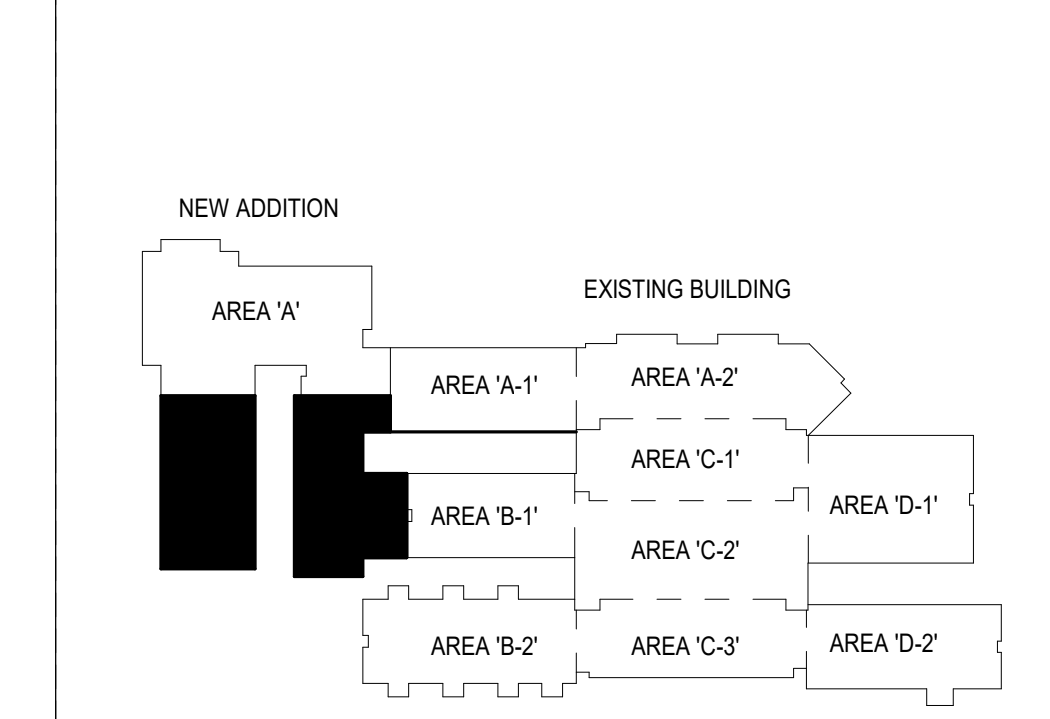
PLAN LEGEND

- ROOM NAME (00999) ROOM NUMBER, SEE FINISH SCHEDULE ON SHEET ID101
- 122A DOOR NUMBERS, SEE DOOR SCHEDULE ON SHEET A800
- FE BRACKET MOUNTED FIRE EXTINGUISHER B.C DRY CHEMICAL MOUNT 4'-0" A.F.F. MAX. TO TOP
- FEC RECESSED FIRE EXTINGUISHER CABINET W/ FIRE EXTINGUISHER 4'-0" TO TOP
- ZZ ZZ SHELVING - 24" DEPTH
- 3 HR FIRE RATING
- 1 HR FIRE RATING
- WALL WITH SOUND ATTENUATION BATTS

NOTE:
 1. ONLY SLOPE FLOOR AROUND AREA DRAINS ON A 2'-0" RADIUS AT 1/8" PER FOOT.



KEY PLAN



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 125 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, D.C.

SHEET TITLE:
**FLOOR PLAN - AREA 'A'
 CONTINUED**

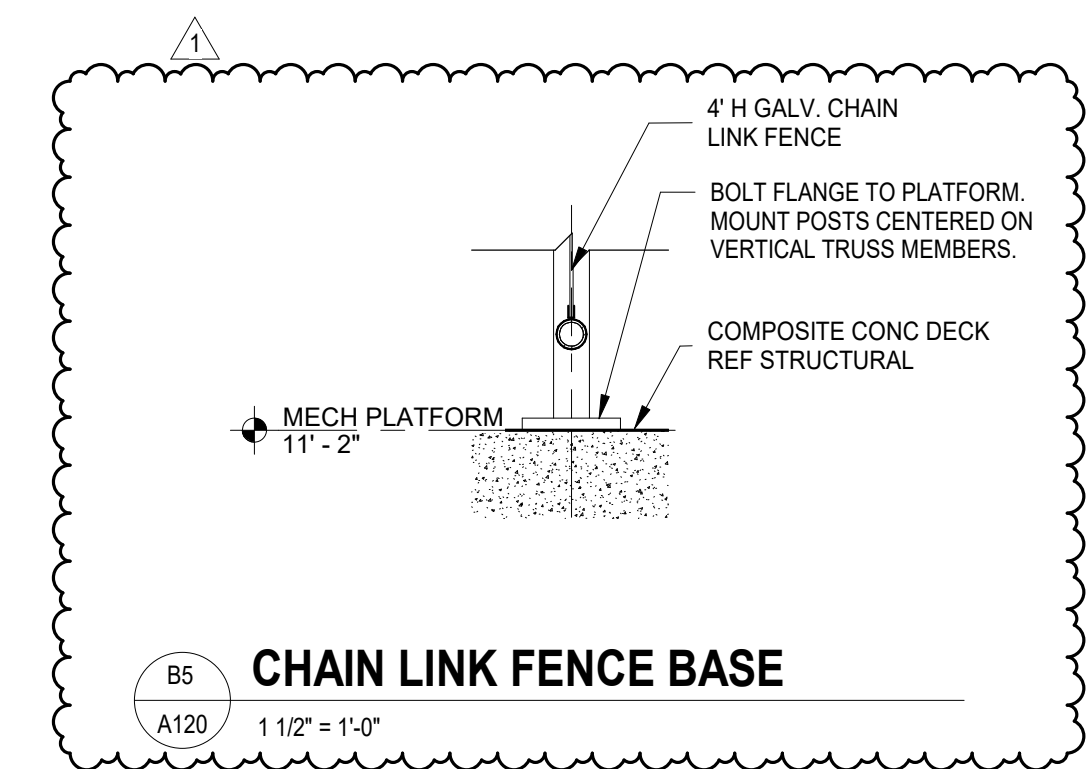
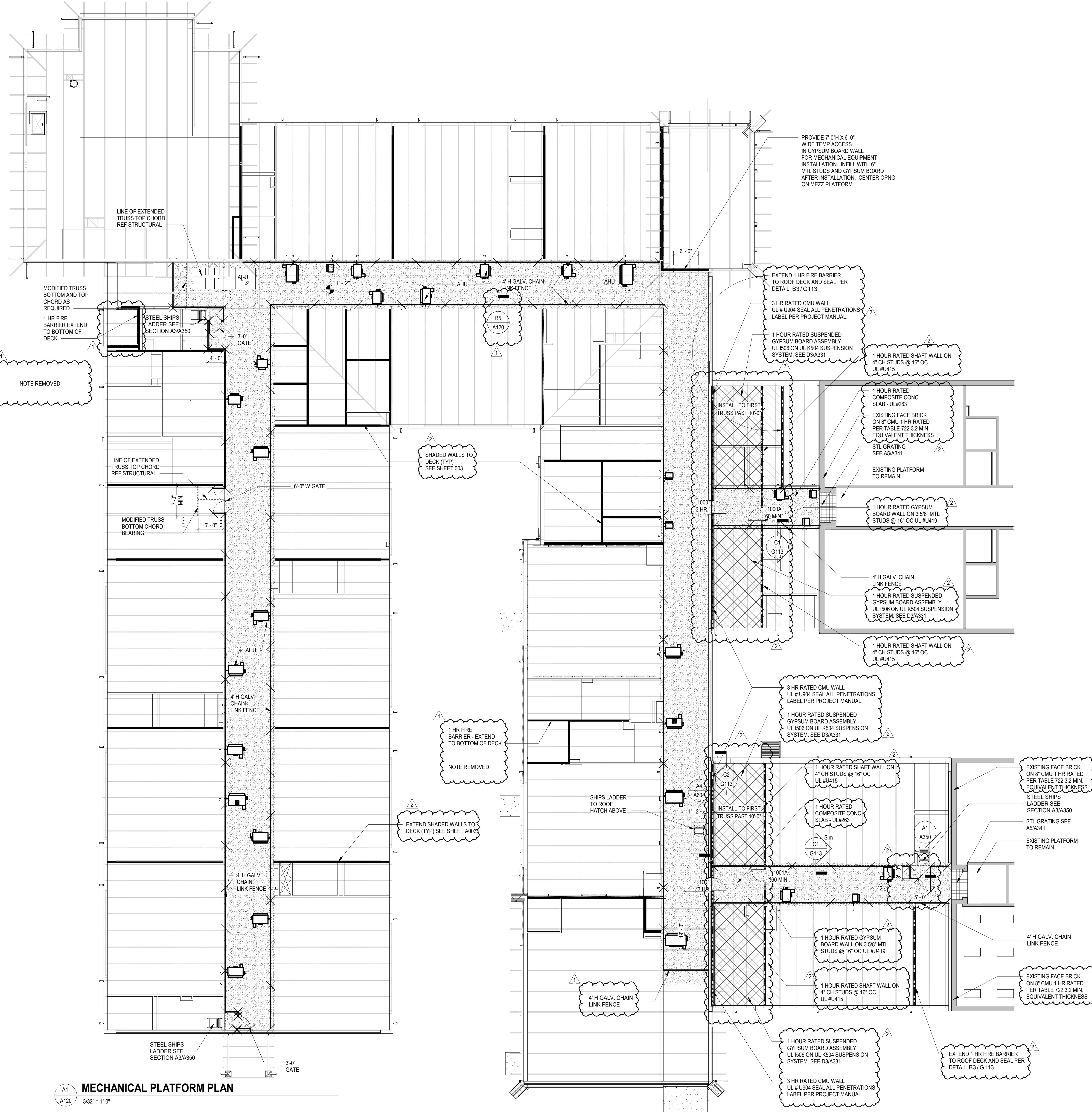
SHEET NO. PROJ. NO.
 020063.00

A1 FLOOR PLAN - AREA 'A' - CONTINUED
 1/8" = 1'-0"

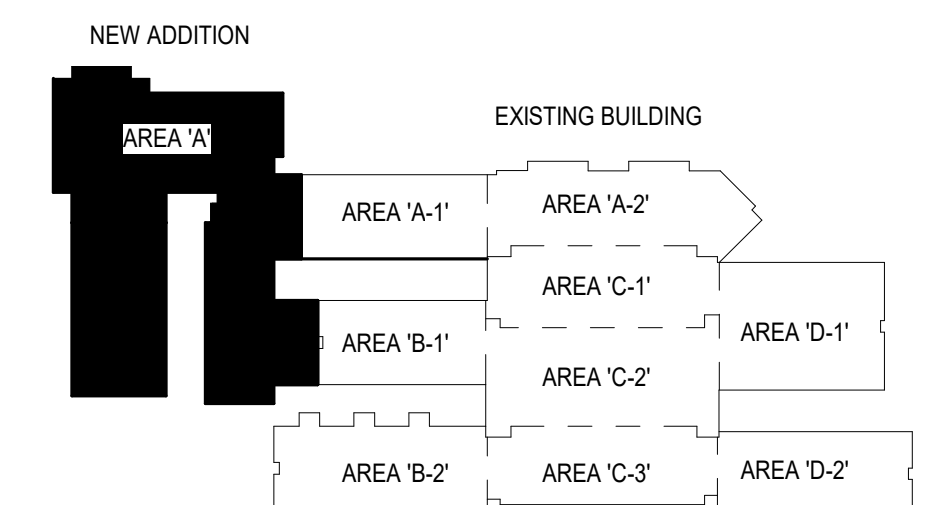
A111

LEGEND

- 3 HR RATED WALL TO DECK
CMU UL # U904
HEAD OF WALL UL # HW-0-0296
- GYPSUM BOARD WALL TO ROOF DECK
- LIGHT GAUGE MTL ROOF TRUSS
- 4'-0" H GALV CHAIN LINK FENCE



KEY PLAN



SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
**MECHANICAL PLATFORM
 PLAN**

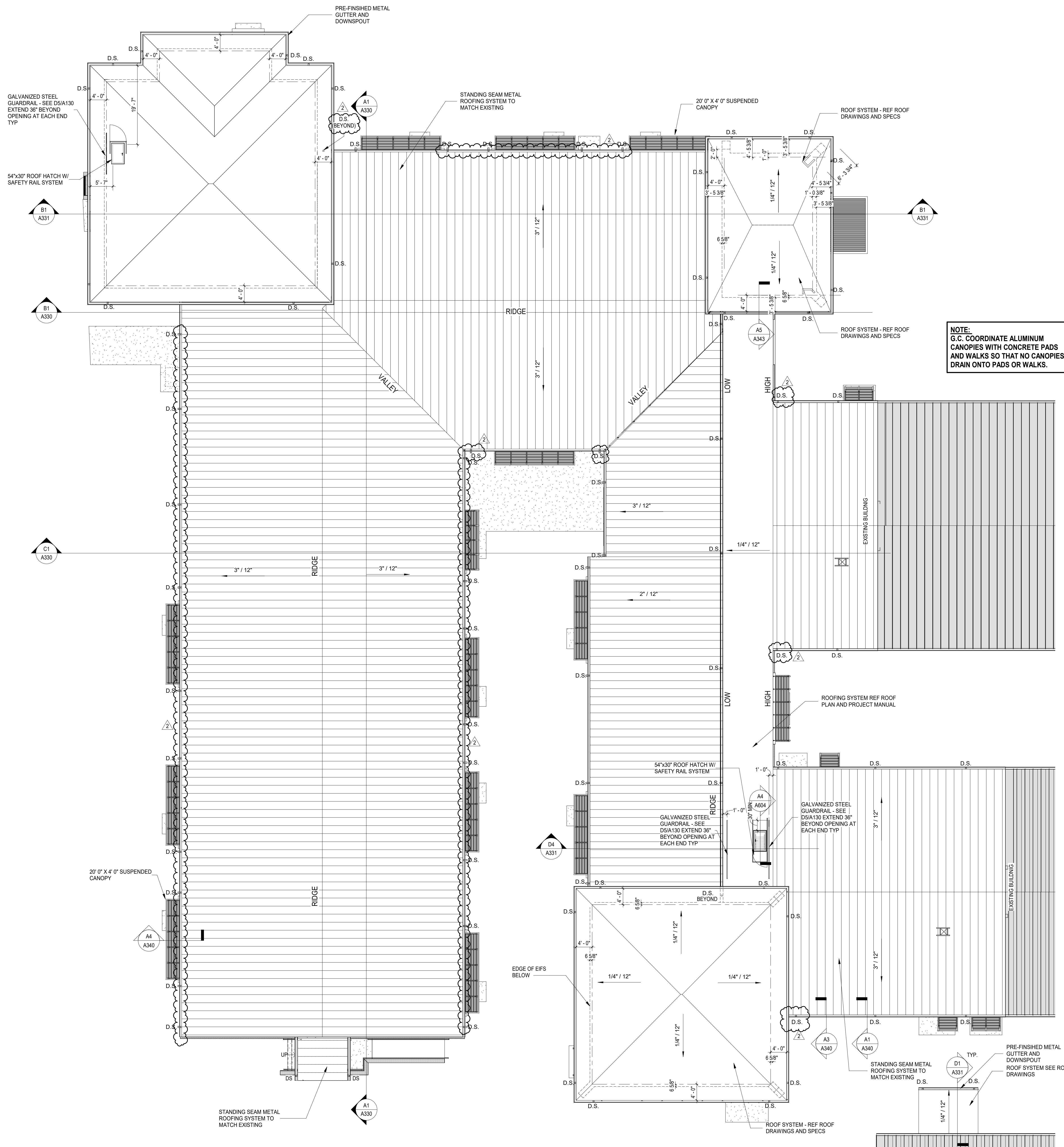
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 020063.00

A120

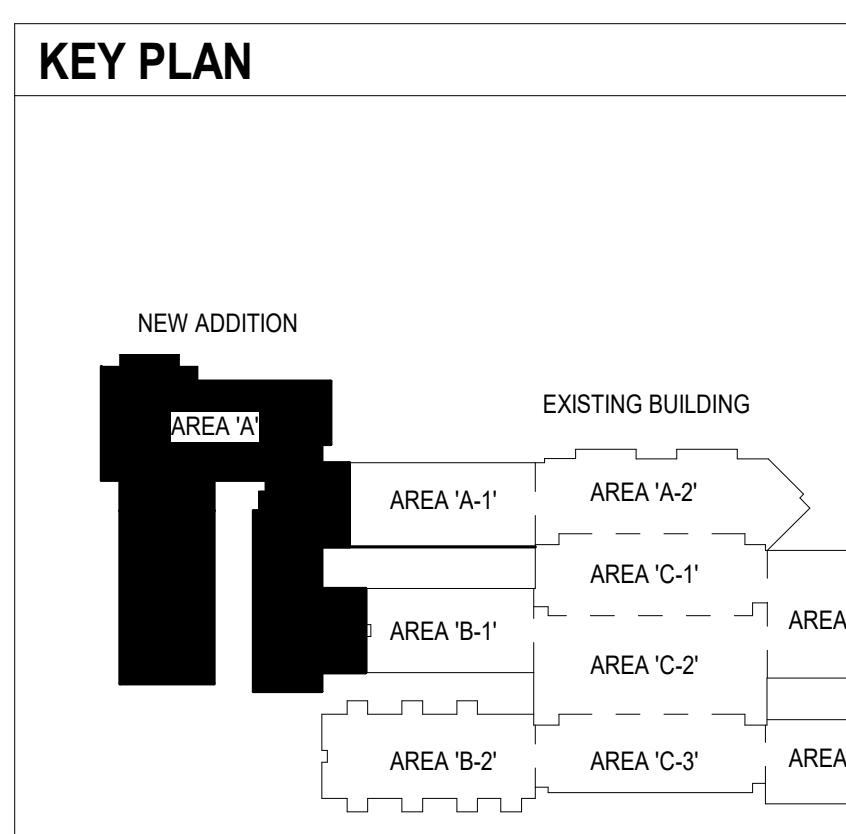
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A1 MECHANICAL PLATFORM PLAN
 A120 3/32" = 1'-0"

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NOTE:
 G.C. COORDINATE ALUMINUM CANOPIES WITH CONCRETE PADS AND WALKS SO THAT NO CANOPIES DRAIN ONTO PADS OR WALKS.



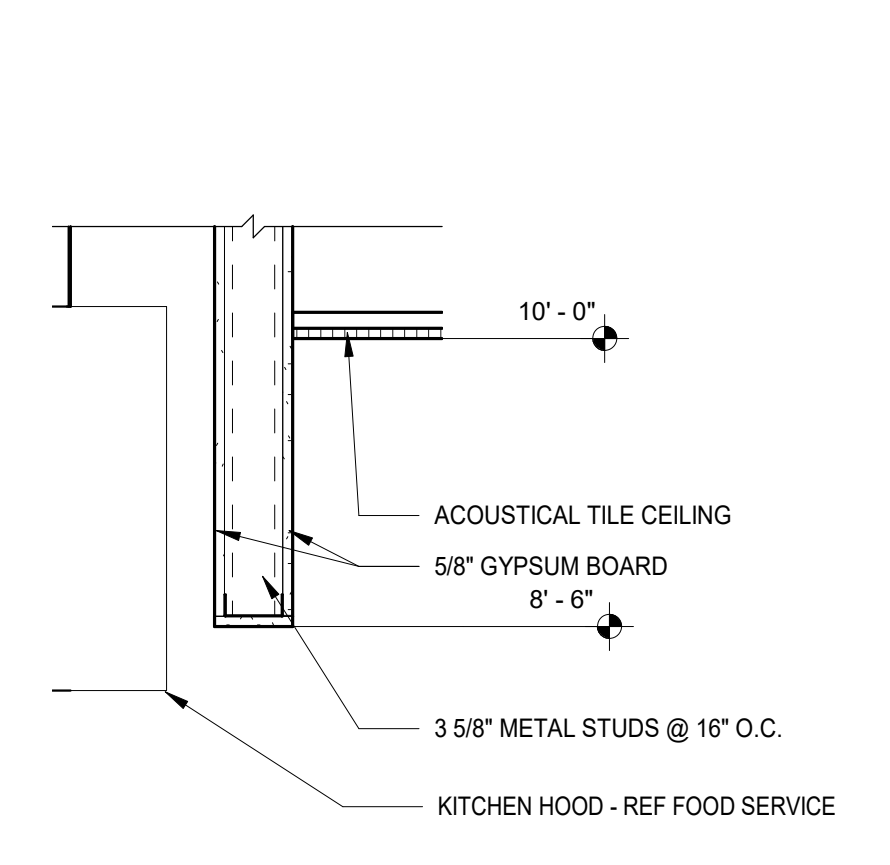
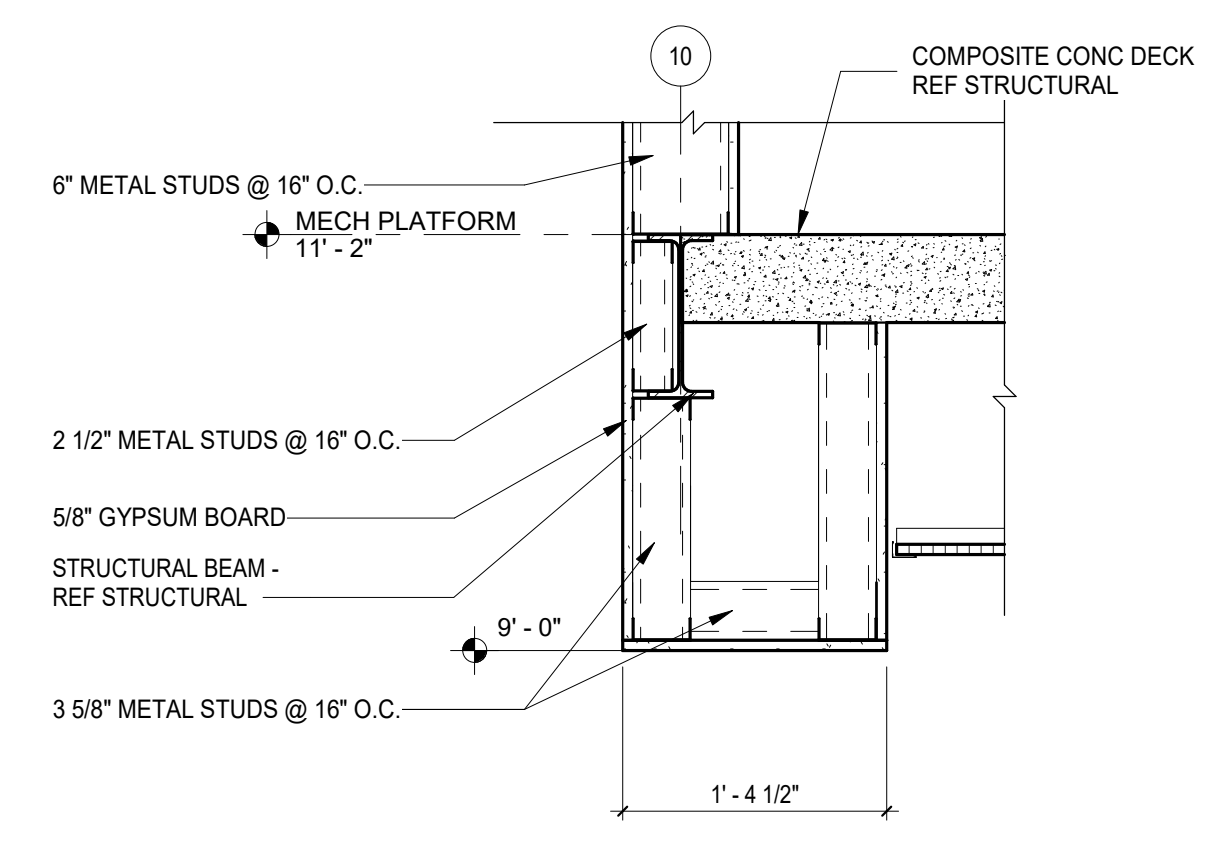
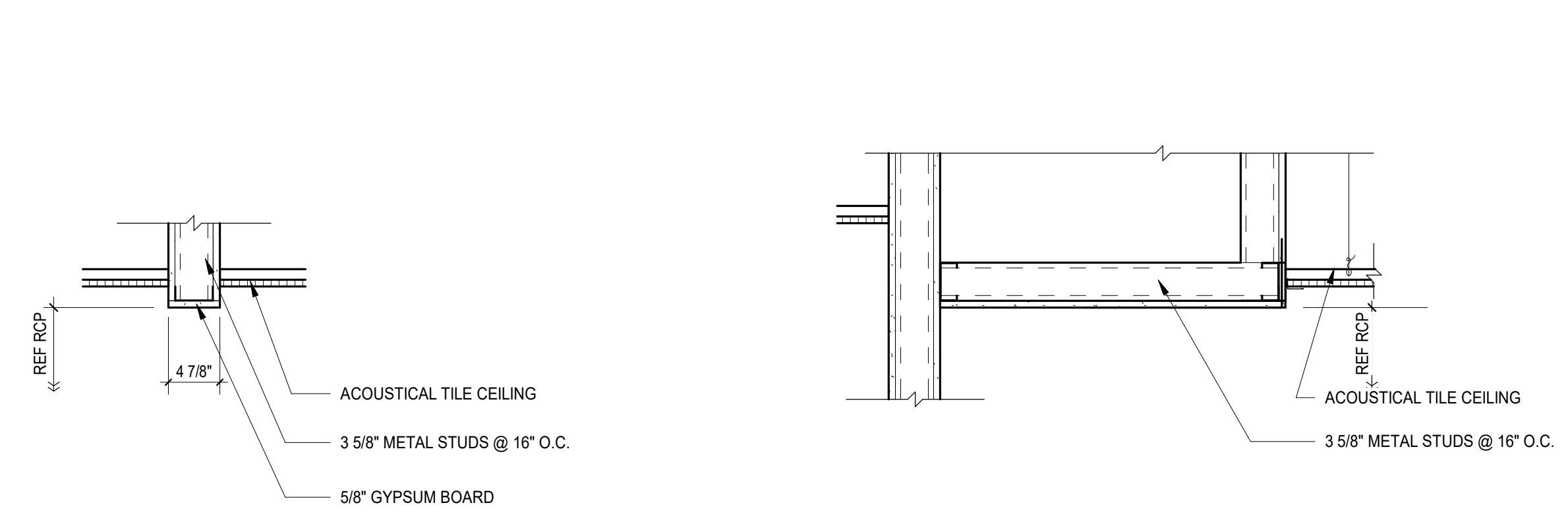
SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 125 BURGETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

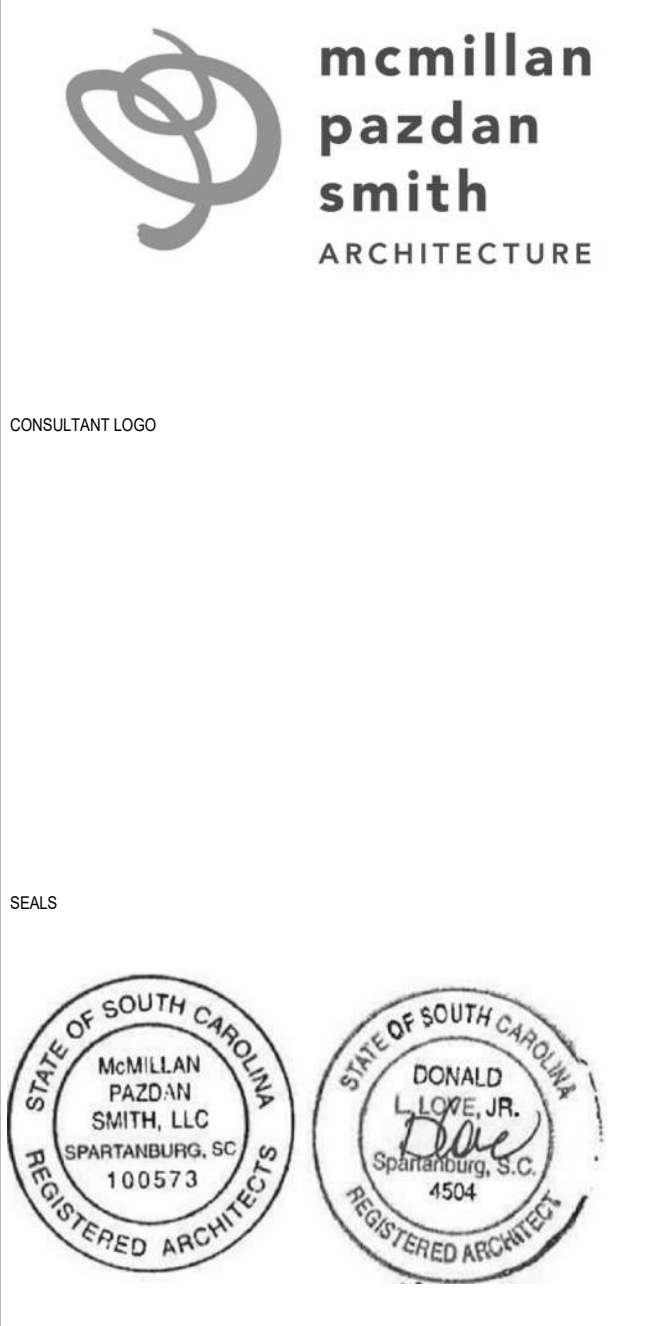
CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: D.L.L.
 PROJECT ARCHITECT: J.M.O.
 DRAWN BY: J.S.W., D.L.C.

SHEET TITLE:
ROOF PLAN
 SHEET NO.:
 PROJ. NO.: 020063.00



REFLECTED CEILING PLAN LEGEND

- ROOM TAG:**
 A101 ROOM NUMBER
- CEILING TAG:**
 ACT CEILING SYSTEM (SEE ABBREV. LEGEND)
 10'-0" CEILING HEIGHT (ABOVE FINISHED FLOOR)
- ABBREVIATION LEGEND:**
 ACT ACOUSTIC CEILING TILE
 GB GYPSUM BOARD
 MR MOISTURE RESISTANT
 NR NOISE REDUCTION
 EXP EXPOSED
 CNP CANOPY
 WHC WALL HUNG CANOPY
- CEILING HATCH PATTERNS / SYMBOLS:**
- CEILING EXPOSED TO STRUCTURE ABOVE, PAINTED UNLESS NOTED OTHERWISE
 - 2' x 2' ACOUSTICAL TILE CEILING
 - GYPSUM BOARD CEILING
 - CEILING MOUNTED ACOUSTICAL PANEL
 - CUBICAL CURTAIN TRACK
 - EXIT SIGN - WALL MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)
 - EXIT SIGN - CEILING MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)
 - 2x4 LAY-IN LIGHT FIXTURE
 - 2x4 LAY-IN EMERGENCY LIGHT FIXTURE
 - 2x2 LAY-IN LIGHT FIXTURE
 - 2x2 LAY-IN EMERGENCY LIGHT FIXTURE
 - RECESSED DOWNLIGHT
 - LINEAR SUPPLY DIFFUSER
 - ROUND SUPPLY DIFFUSER
 - 2 x 2 SUPPLY DIFFUSER
 - 2 x 2 RETURN DIFFUSER
 - EXHAUST FAN
- SEE ELECTRICAL**
- SEE MECHANICAL**
- 3 HR FIRE RATING
 1 HR FIRE RATING
- NOTE: OTHER DISCIPLINES SHOWN FOR COORDINATION PURPOSES ONLY. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND TELECOMMUNICATION SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.
- NOTES:
 1. ALL CEILINGS MUST BE SEISMICALLY BRACED AND INSTALLED PER PROJECT SPECIFICATIONS AND CISCA RECOMMENDATIONS. THIS PROJECT IS IN SEISMIC DESIGN CATEGORY "C". CONTRACTOR TO ASSUME CEILING SYSTEM WEIGHT EXCEEDS 2.5 LBS/FT.
 2. ALL LIGHT FIXTURES, MECHANICAL DEVICES AND SPEAKERS IN CEILING SYSTEM MUST BE INSTALLED PER PROJECT MANUAL AND CISCA RECOMMENDATIONS.
 3. GC SHALL COORDINATE CEILING SYSTEM INSTALLATION W/ PUBLISHED OSF APPROVED GUIDELINES.
 4. SEAL AROUND ALL PENETRATIONS THROUGH THE CEILING TILE.
 5. SEAL ALL PERIMETER ANGLE TO THE WALL.

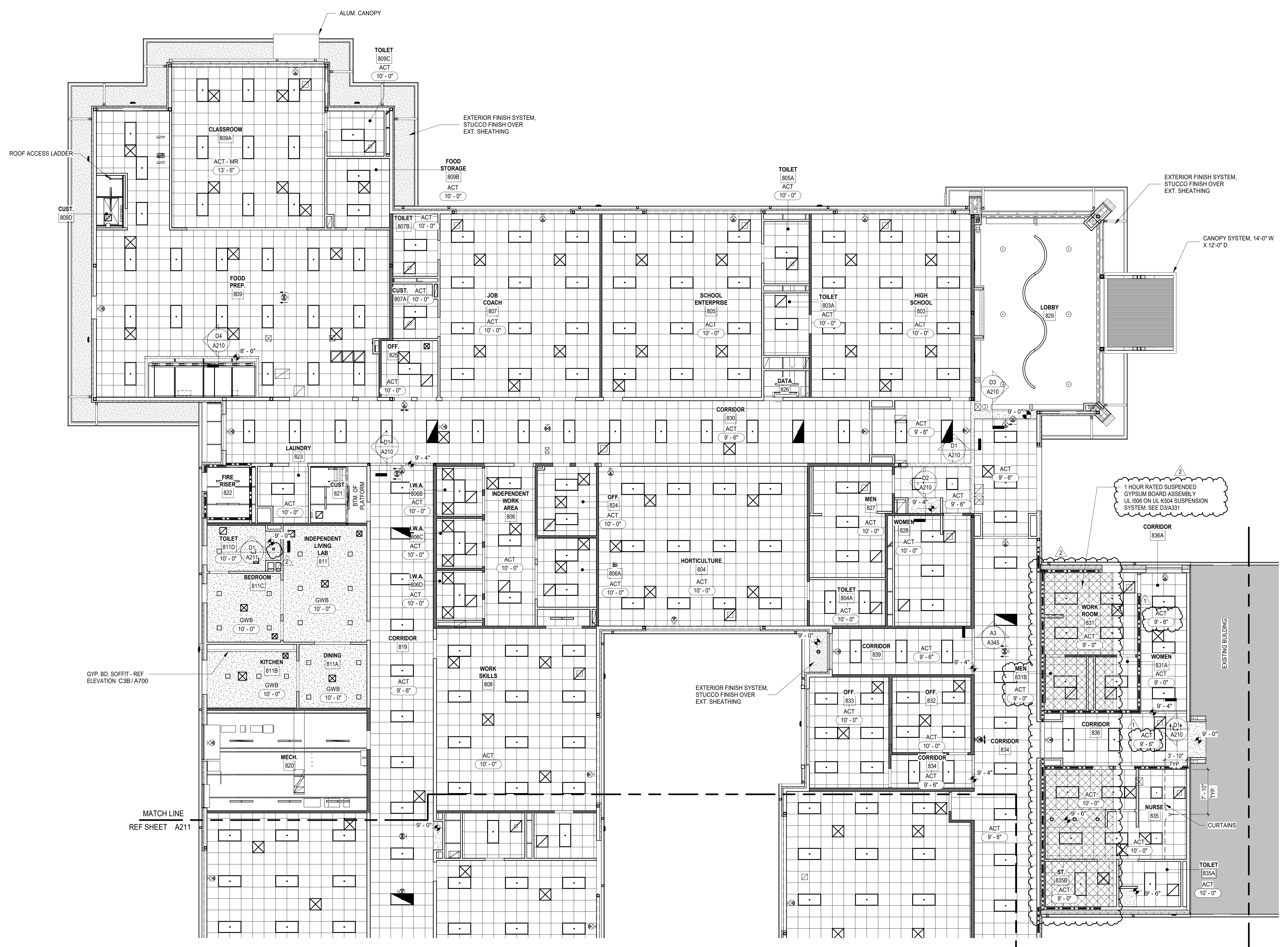


D1 TYP. BULKHEAD DETAIL
 1" = 1'-0"

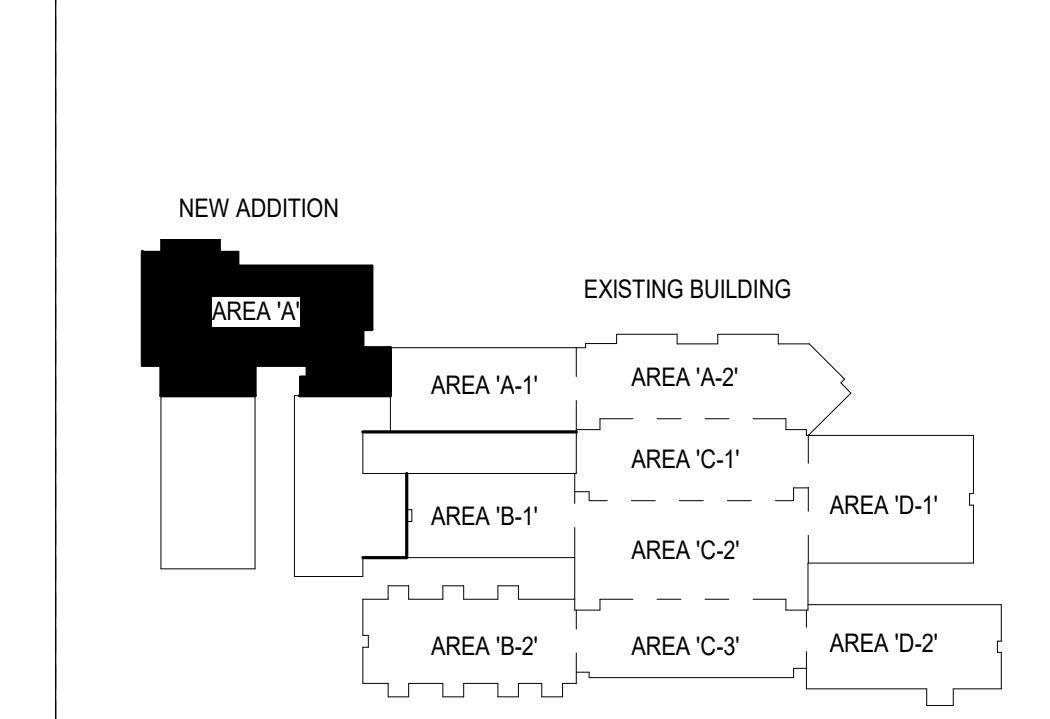
D2 TYP. BULKHEAD DETAIL
 1" = 1'-0"

D3 BULKHEAD DETAIL AT MAIN ENTRY
 1" = 1'-0"

D4 BULKHEAD AT KITCHEN HOOD
 1" = 1'-0"



KEY PLAN



A1 REFLECTED CEILING PLAN - AREA 'A'
 1/8" = 1'-0"

SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 125 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
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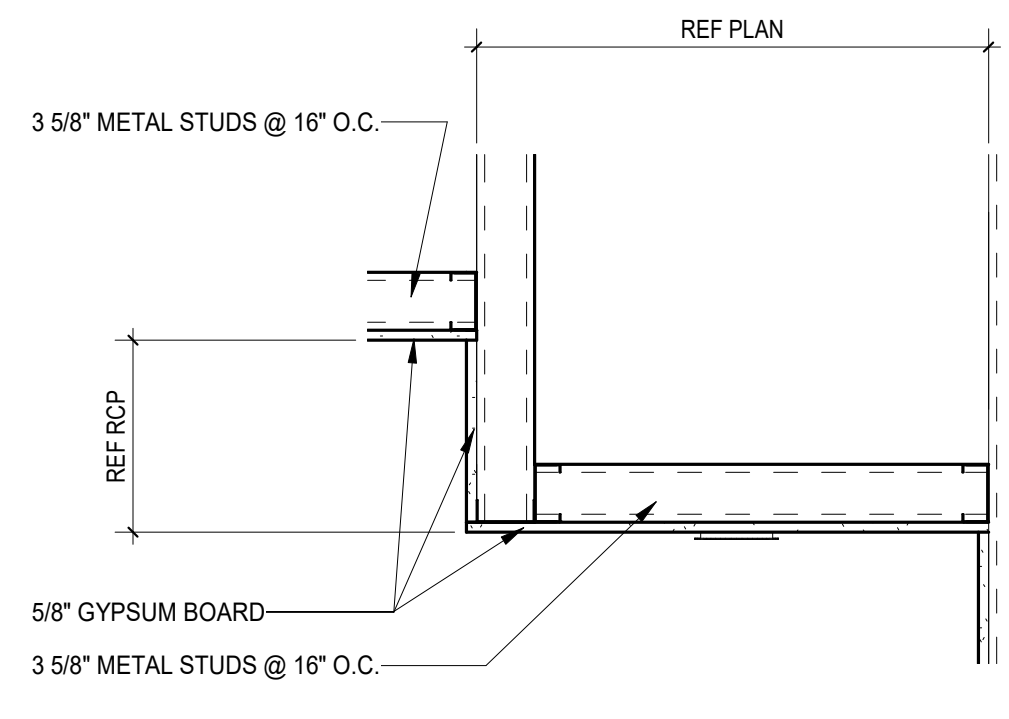
CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
REFLECTED CEILING PLAN - AREA 'A'

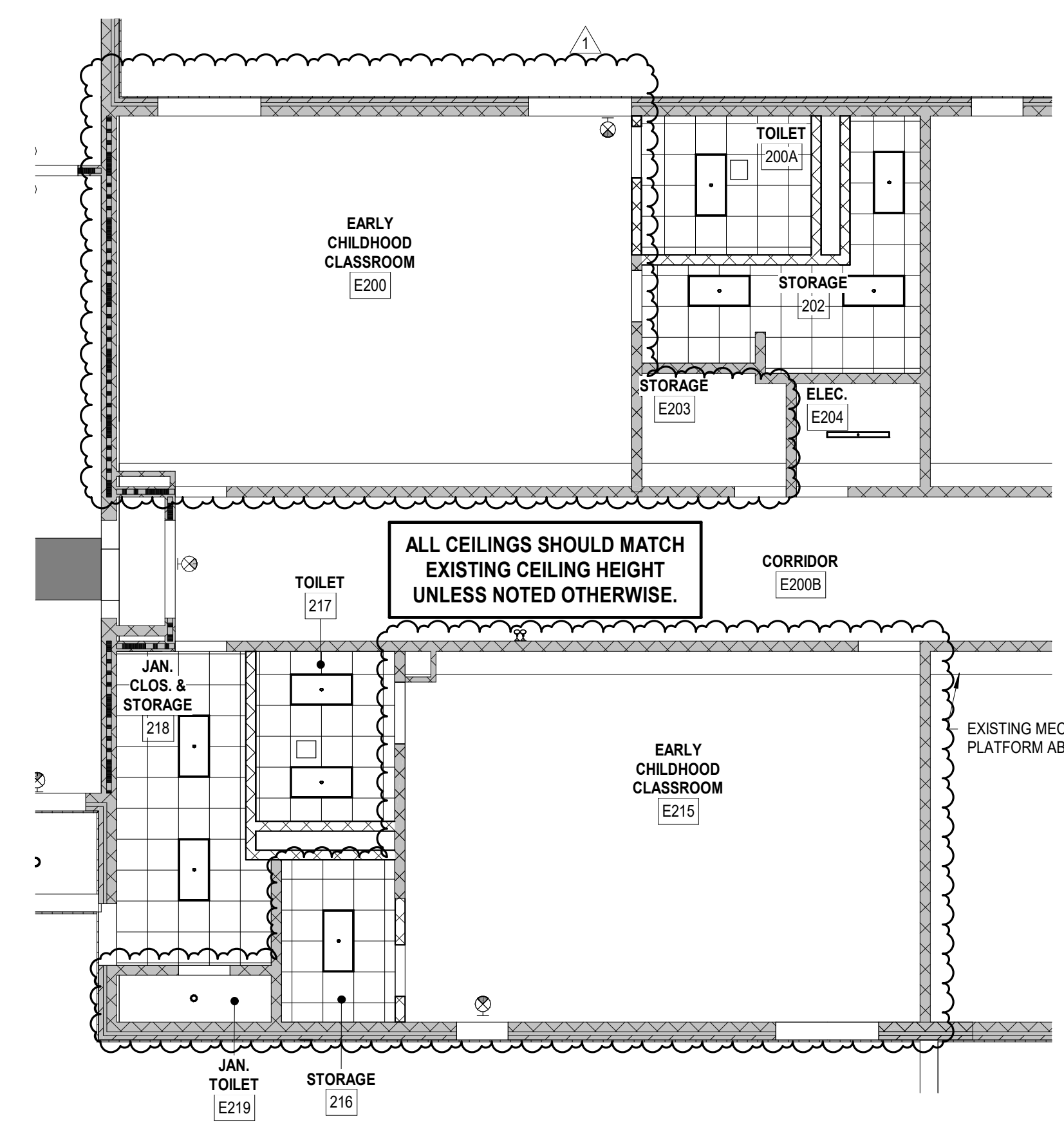
SHEET NO. PROJ. NO. 020063.00

A210

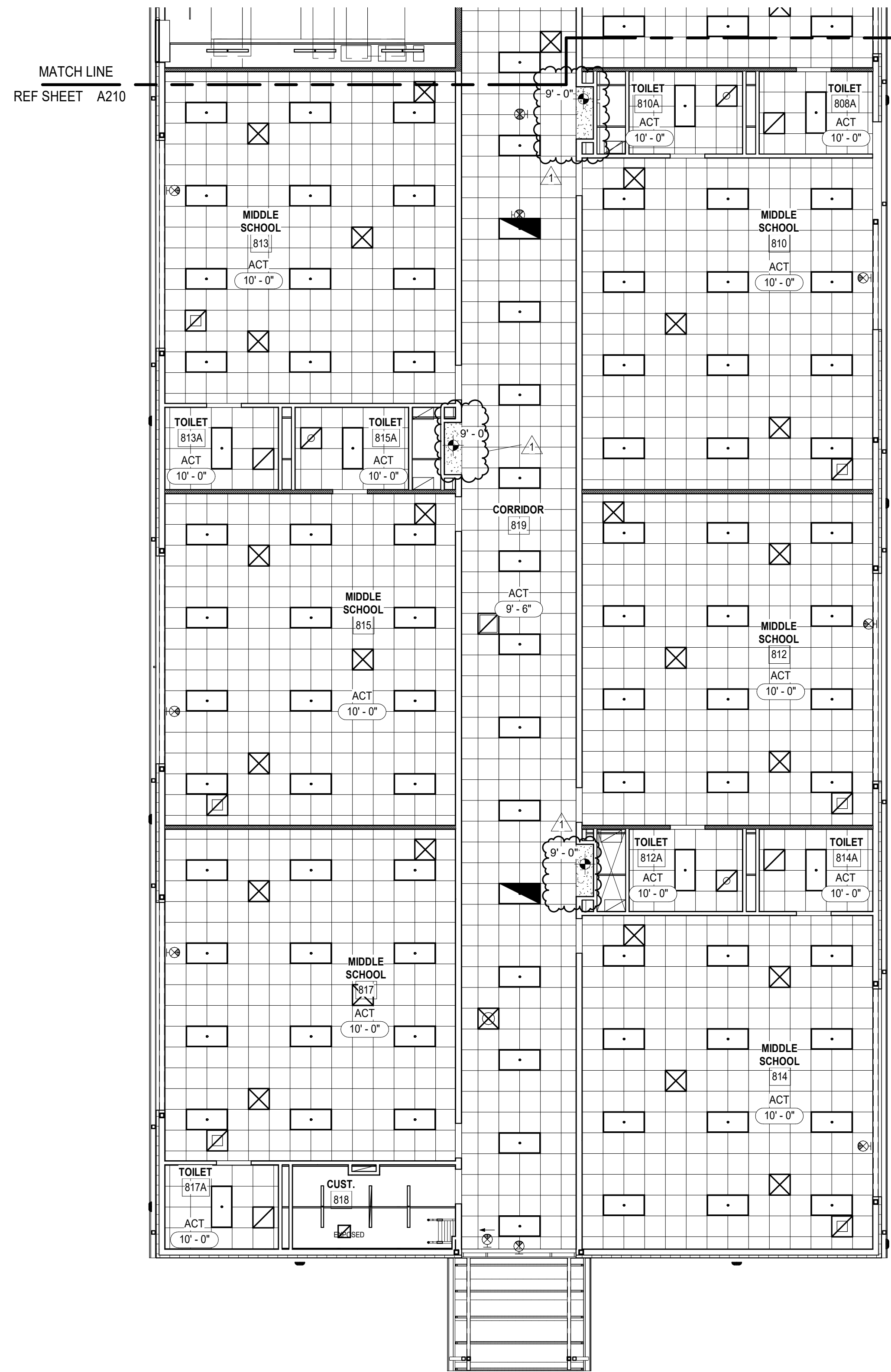
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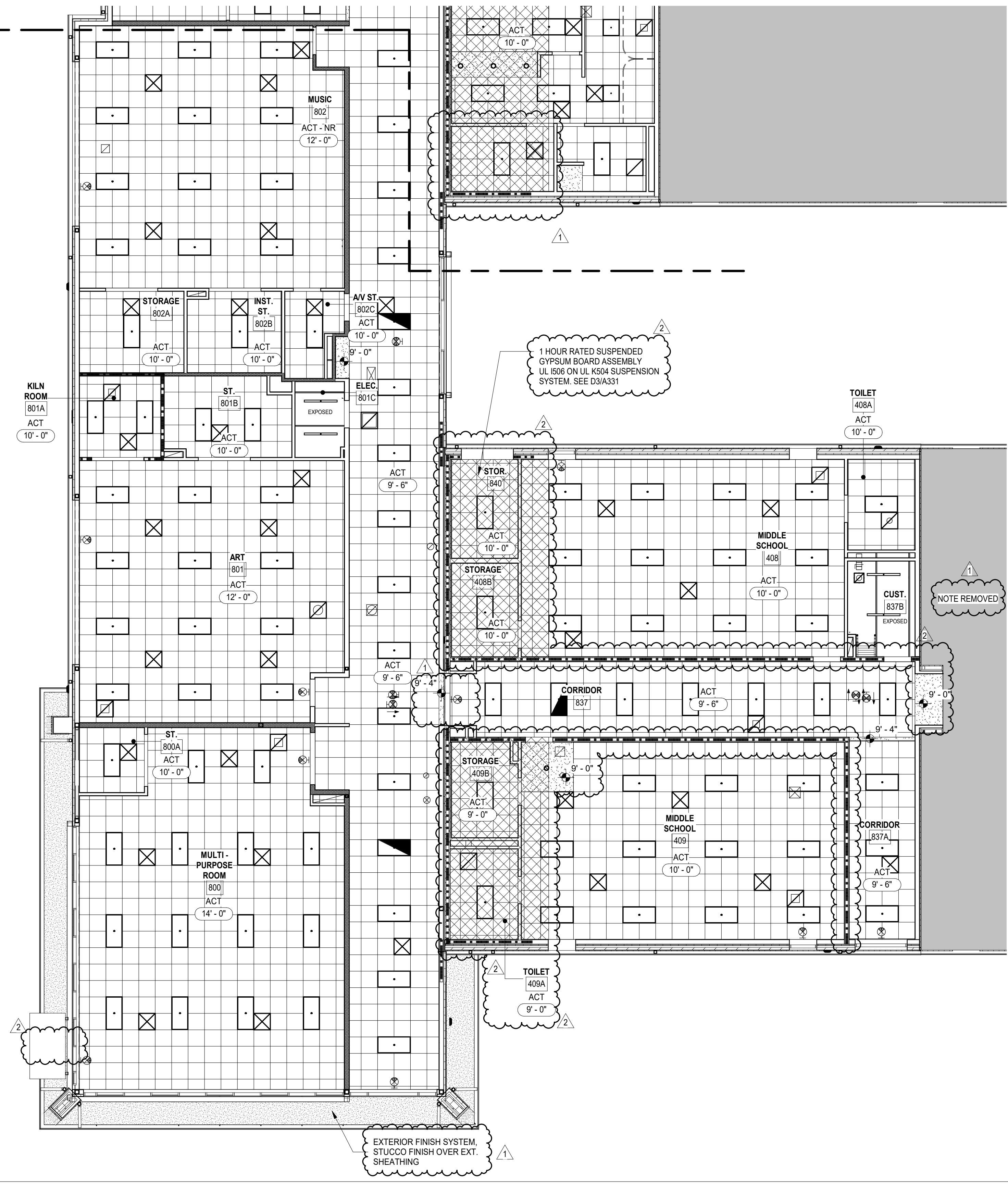
D1 BULKHEAD DETAIL
1" = 1'-0"



D4 REFLECTED CEILING PLAN - EXISTING BUILDING AREA 'D-2'
1/8" = 1'-0"



A1 REFLECTED CEILING PLAN - AREA 'A' CONTINUED
1/8" = 1'-0"



REFLECTED CEILING PLAN LEGEND

ROOM TAG:
[A101] ROOM NUMBER

CEILING TAG:
ACT CEILING SYSTEM (SEE ABBREV. LEGEND)
10'-0" CEILING HEIGHT (ABOVE FINISHED FLOOR)

ABBREVIATION LEGEND:
ACT ACOUSTIC CEILING TILE
GB GYPSUM BOARD
MR MOISTURE RESISTANT
NR NOISE REDUCTION
EXP EXPOSED
CNP CANOPY
WHC WALL HUNG CANOPY

CEILING HATCH PATTERNS / SYMBOLS:
[Hatched] CEILING EXPOSED TO STRUCTURE ABOVE, PAINTED UNLESS NOTED OTHERWISE
[Grid] 2' x 2' ACOUSTICAL TILE CEILING
[Dotted] GYPSUM BOARD CEILING
[Square] CEILING MOUNTED ACOUSTICAL PANEL
[Line] CUBICAL CURTAIN TRACK

SEE ELECTRICAL:
[Symbol] EXIT SIGN - WALL MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)
[Symbol] EXIT SIGN - CEILING MOUNTED (DIRECTIONAL ARROWS WHERE INDICATED)
[Symbol] 2x4 LAY-IN LIGHT FIXTURE
[Symbol] 2x4 LAY-IN EMERGENCY LIGHT FIXTURE
[Symbol] 2x2 LAY-IN LIGHT FIXTURE
[Symbol] 2x2 LAY-IN EMERGENCY LIGHT FIXTURE
[Symbol] RECESSED DOWNLIGHT

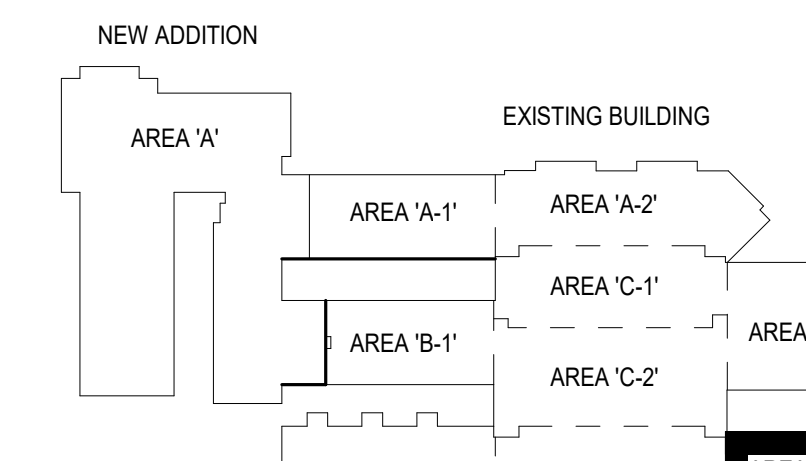
SEE MECHANICAL:
[Symbol] LINEAR SUPPLY DIFFUSER
[Symbol] ROUND SUPPLY DIFFUSER
[Symbol] 2 x 2 SUPPLY DIFFUSER
[Symbol] 2 x 2 RETURN DIFFUSER
[Symbol] EXHAUST FAN

FIRE RATING:
[Symbol] 3 HR FIRE RATING
[Symbol] 1 HR FIRE RATING

NOTE: OTHER DISCIPLINES SHOWN FOR COORDINATION PURPOSES ONLY. SEE STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, AND TELECOMMUNICATION SHEETS FOR ELEMENTS NOT SHOWN ON THIS SHEET.

NOTES:
1. ALL CEILINGS MUST BE SEISMICALLY BRACED AND INSTALLED PER PROJECT SPECIFICATIONS AND CISCA RECOMMENDATIONS. THIS PROJECT IS IN SEISMIC DESIGN CATEGORY 'C'. CONTRACTOR TO ASSUME CEILING SYSTEM WEIGHT EXCEEDS 2.5 LBS/FT.
2. ALL LIGHT FIXTURES, MECHANICAL DEVICES AND SPEAKERS IN CEILING SYSTEM MUST BE INSTALLED PER PROJECT PROJECT MANUAL AND CISCA RECOMMENDATIONS.
3. GC SHALL COORDINATE CEILING SYSTEM INSTALLATION W/ PUBLISHED OSF APPROVED GUIDELINES.
4. SEAL AROUND ALL PENETRATIONS THROUGH THE CEILING TILE.
5. SEAL ALL PERIMETER ANGLE TO THE WALL.

KEY PLAN



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

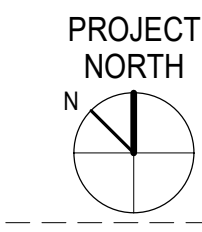
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

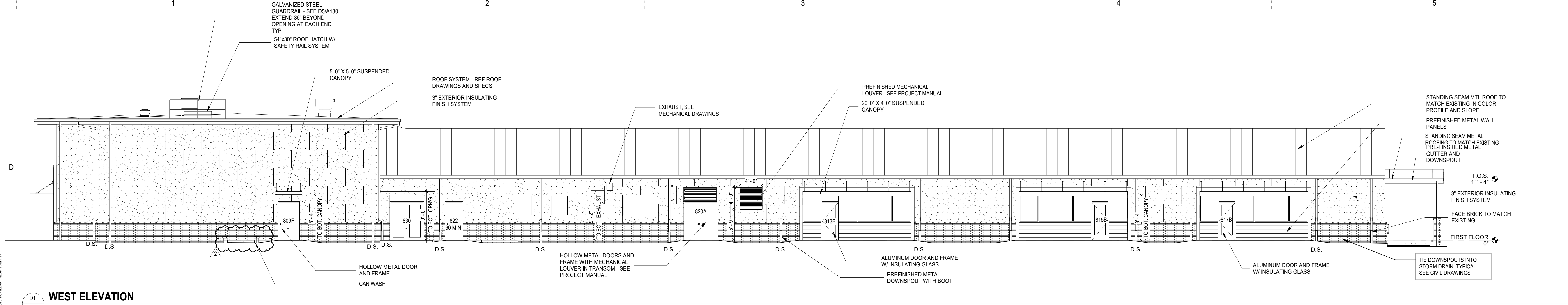
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
REFLECTED CEILING
PLAN - AREA 'A'
CONTINUED AND
EXISTING AREA 'D-2'

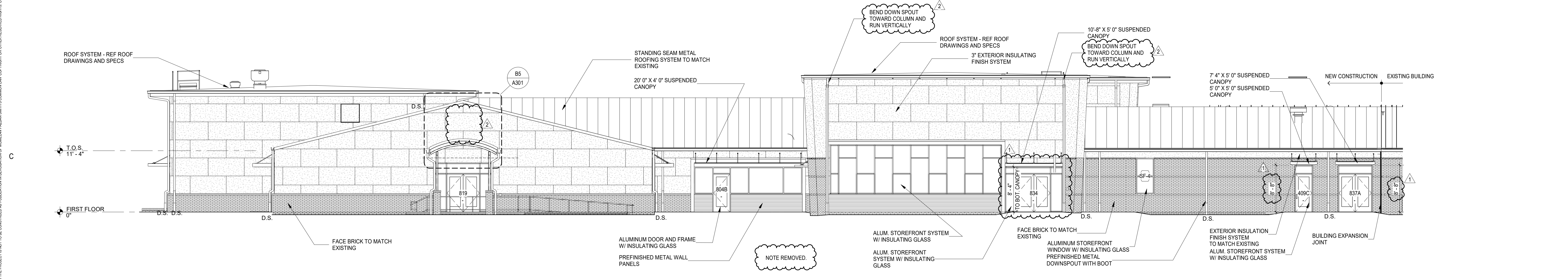
SHEET NO. PROJ. NO. 020063.00

A211

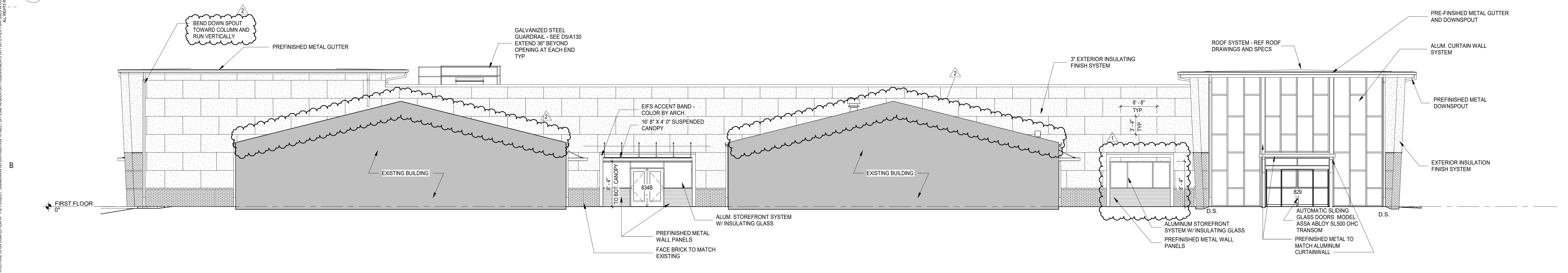




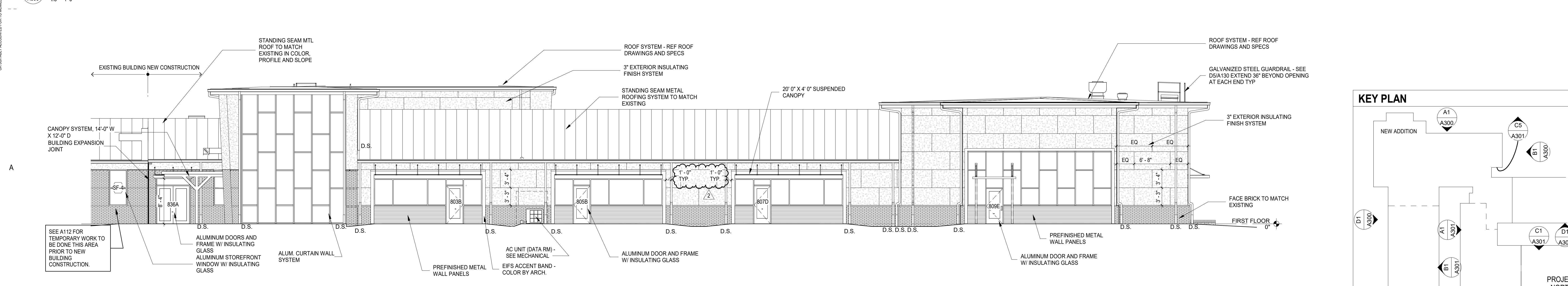
D1 WEST ELEVATION
A300 1/8\"/>



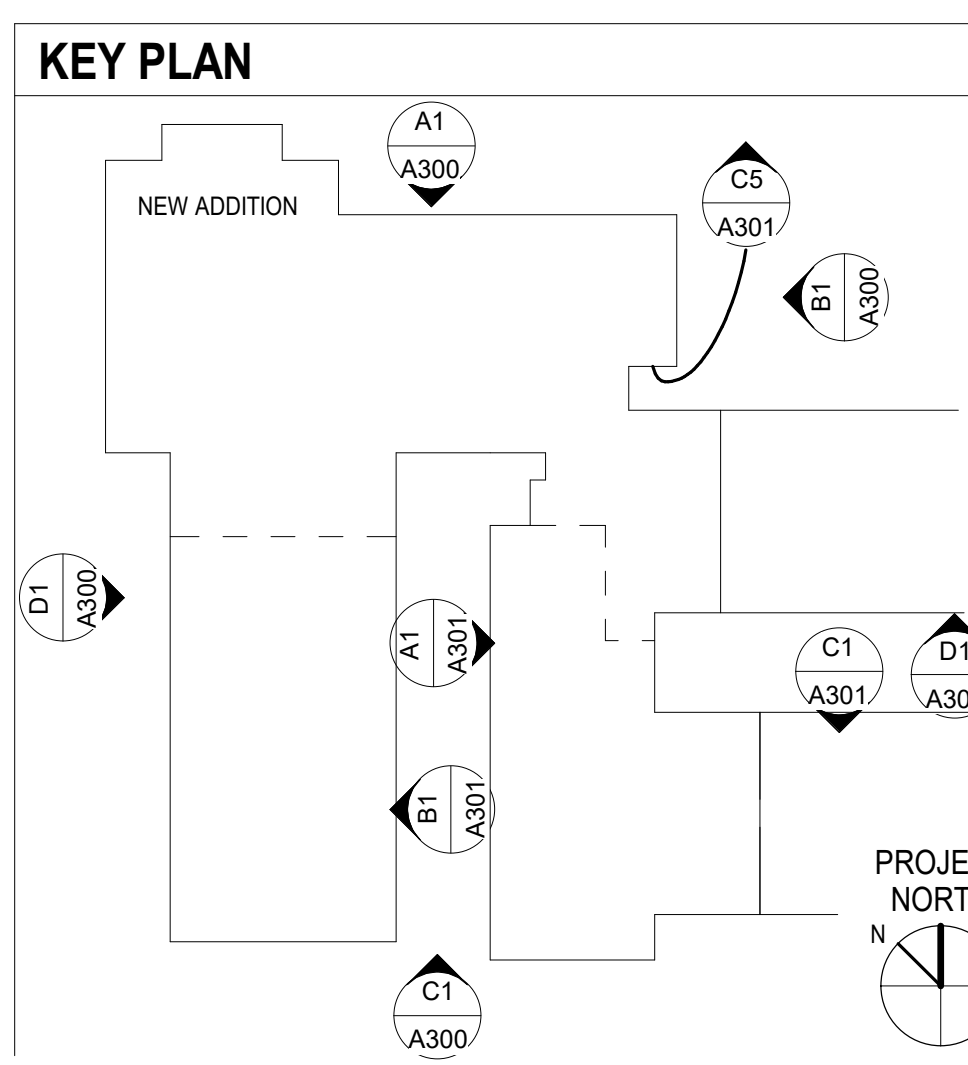
C1 SOUTH ELEVATION
A300 1/8\"/>



B1 EAST ELEVATION
A300 1/8\"/>



A1 NORTH ELEVATION
A300 1/8\"/>



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
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2	05/12/2021	Addendum No. 2	DLL

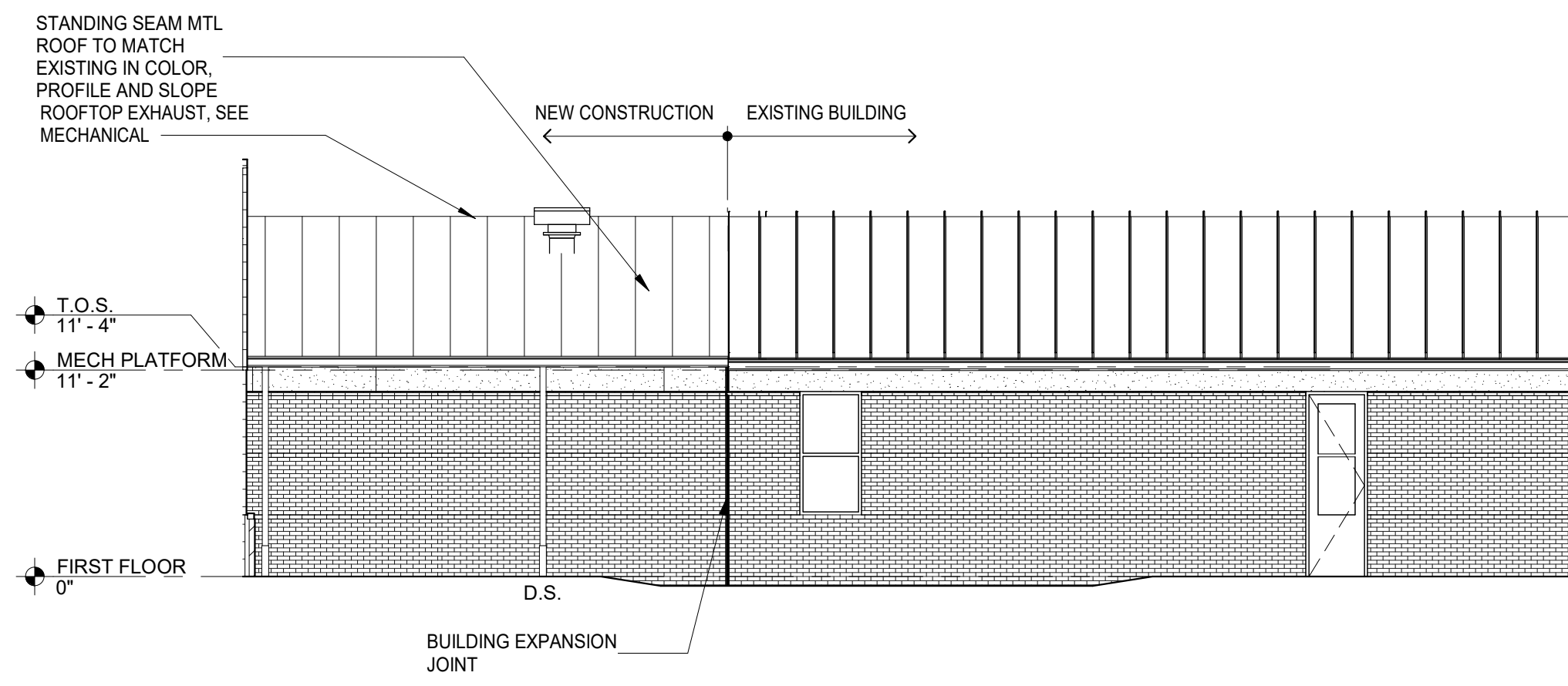
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JMO, JSW, D.LC

SHEET TITLE:
BUILDING ELEVATIONS

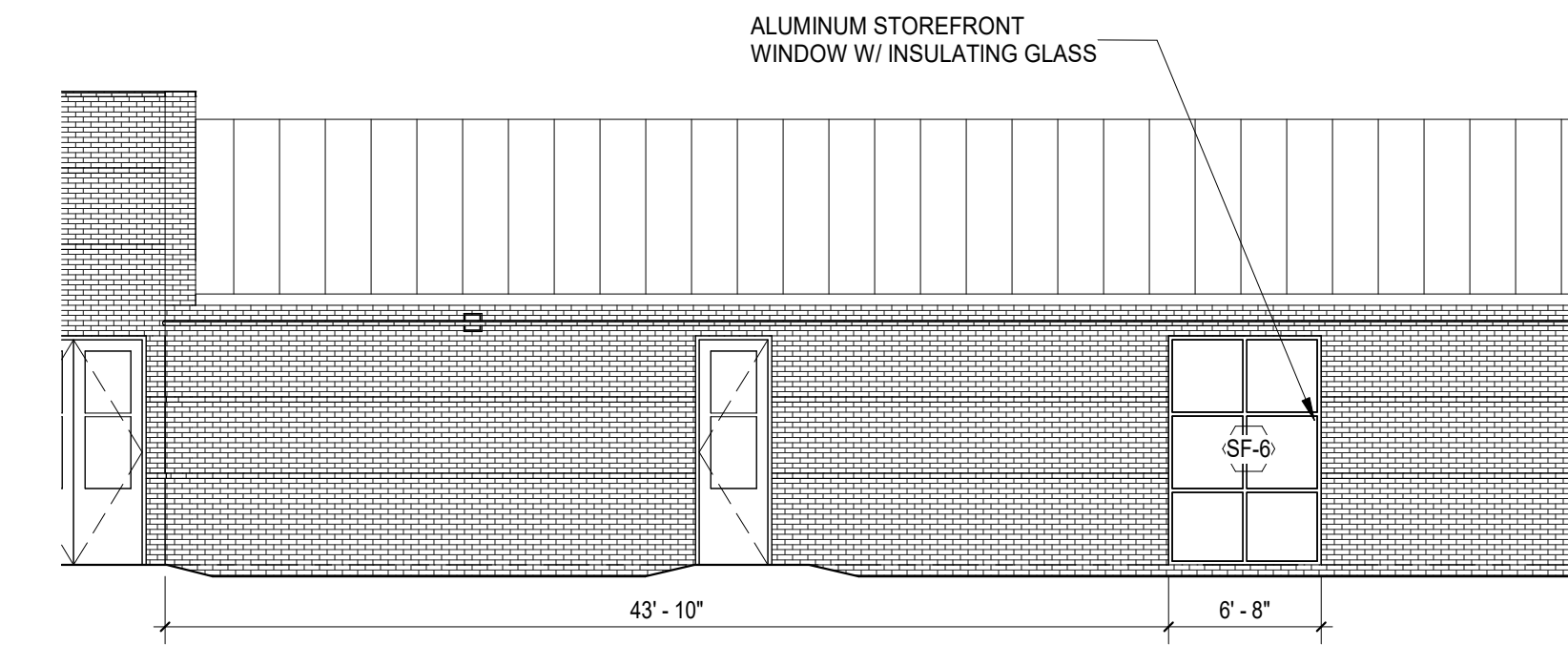
SHEET NO. PROJ. NO.
A300 020063.00

A300

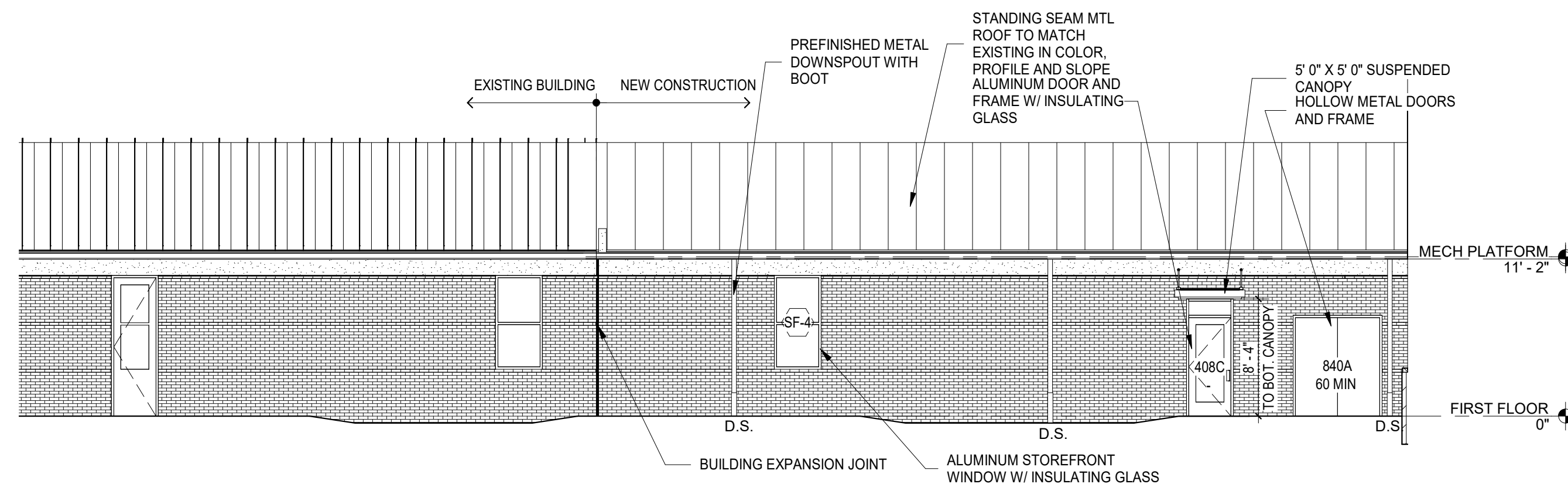
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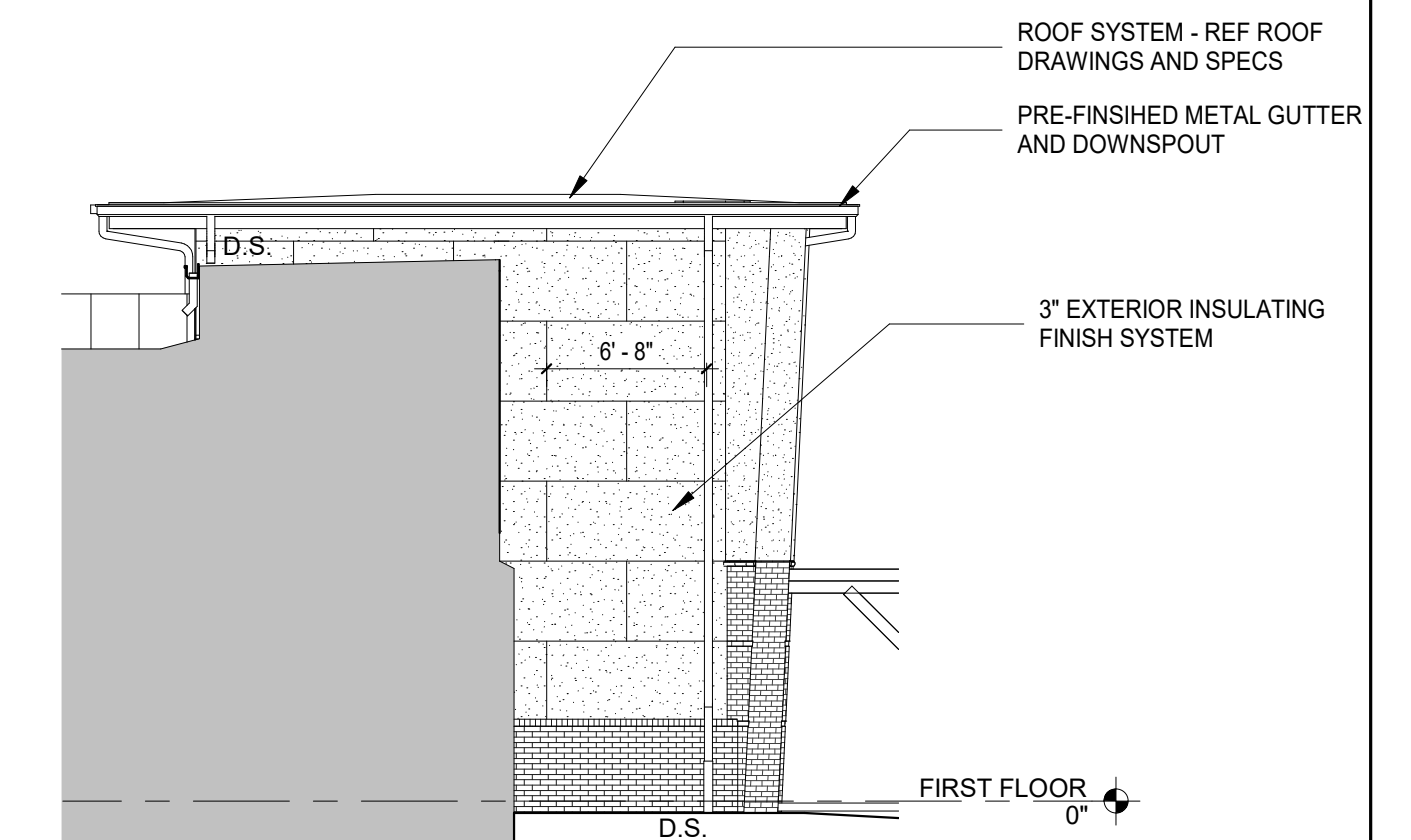
D1
A301
1/8" = 1'-0"



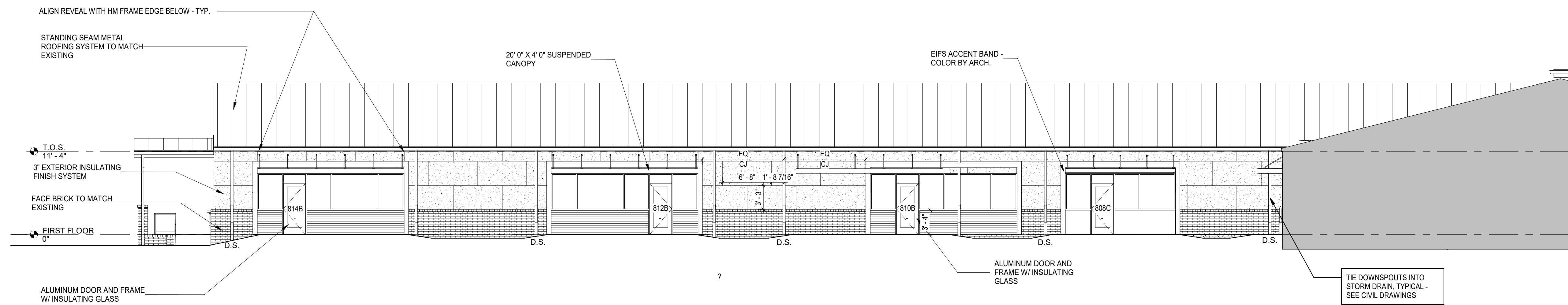
D5
A301
1/8" = 1'-0"



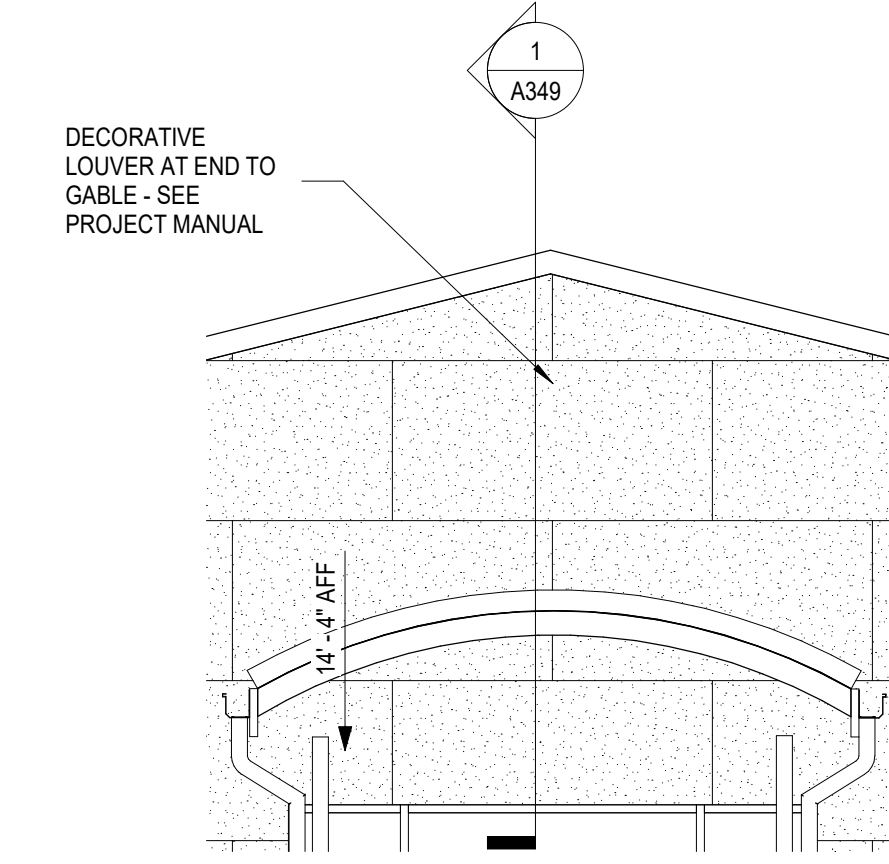
C1
A301
1/8" = 1'-0"



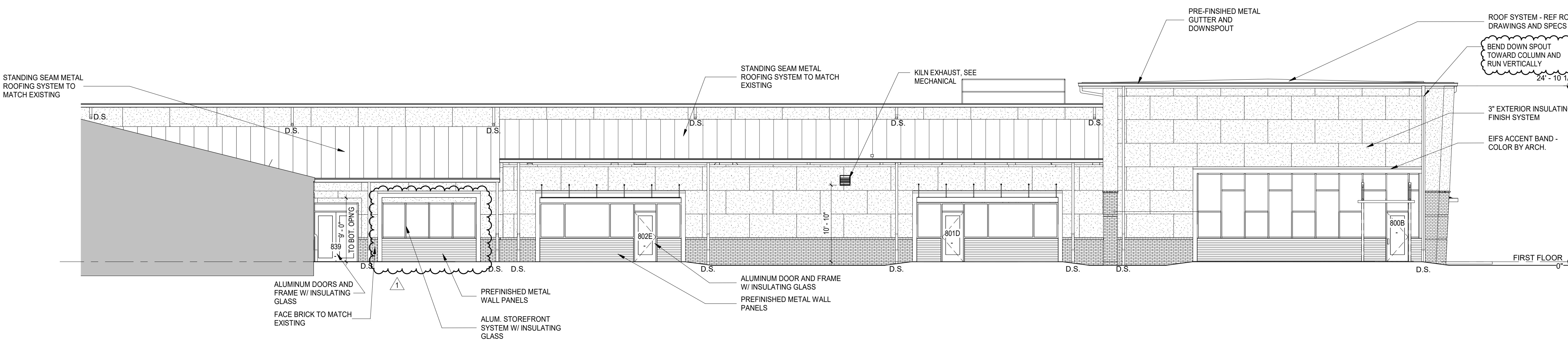
C5
A301
1/8" = 1'-0"



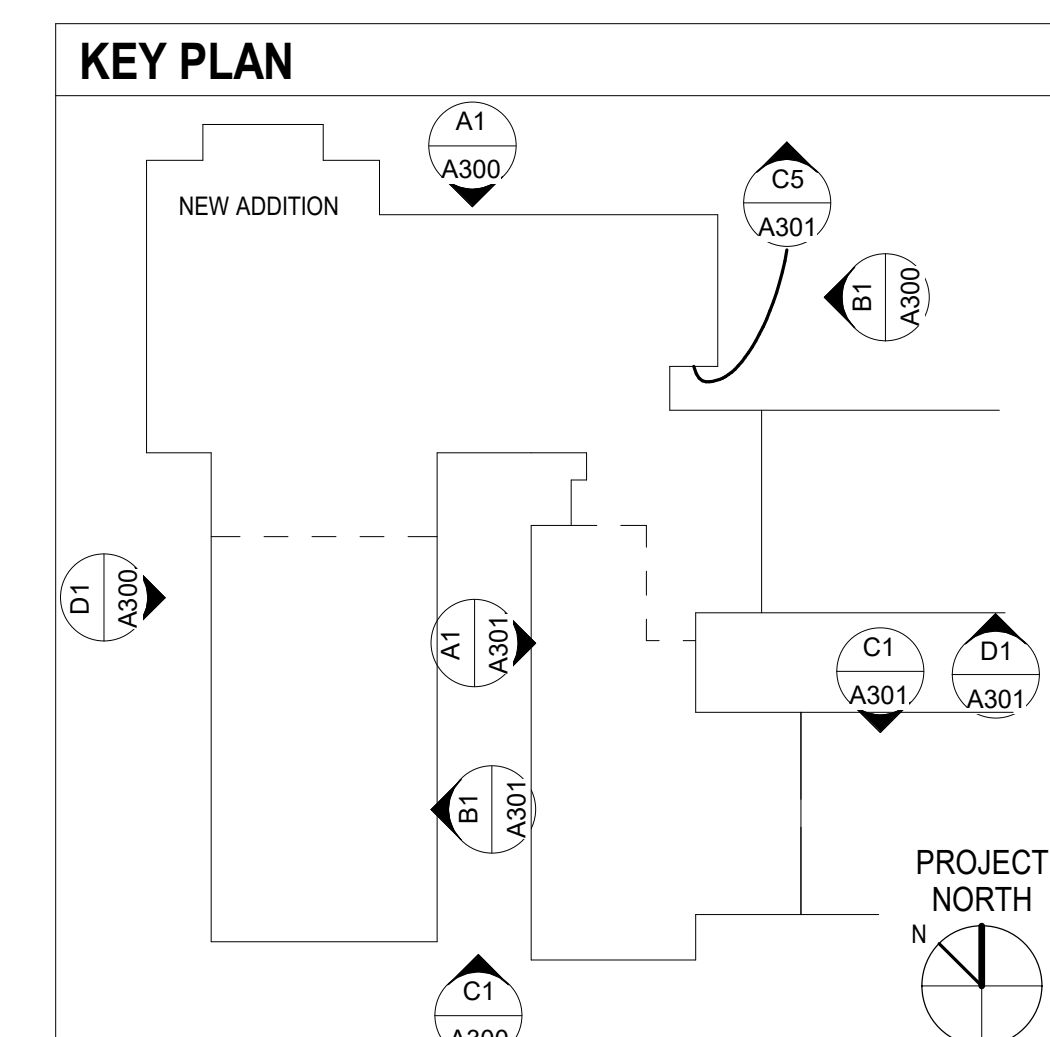
B1
A301
1/8" = 1'-0"



B5
A301
1/4" = 1'-0"



A1
A301
1/8" = 1'-0"



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: DLL
PROJECT ARCHITECT: DLL
DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
BUILDING ELEVATIONS

SHEET NO. PROJ. NO.
A301 020063.00

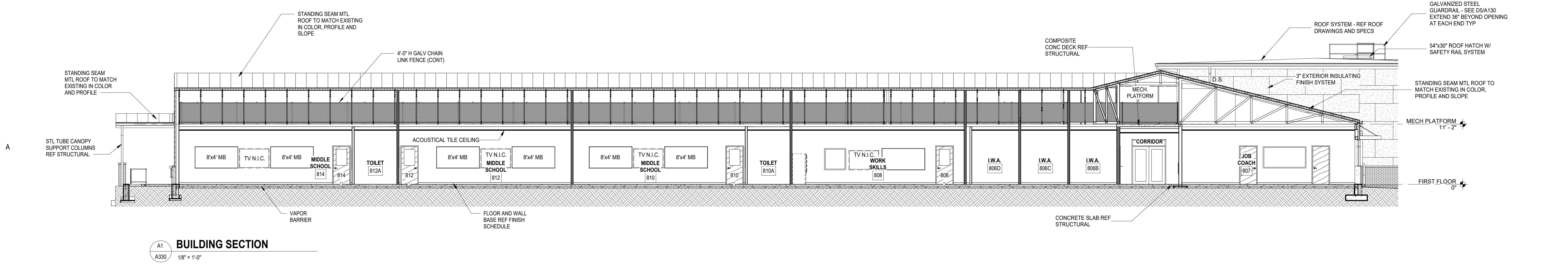
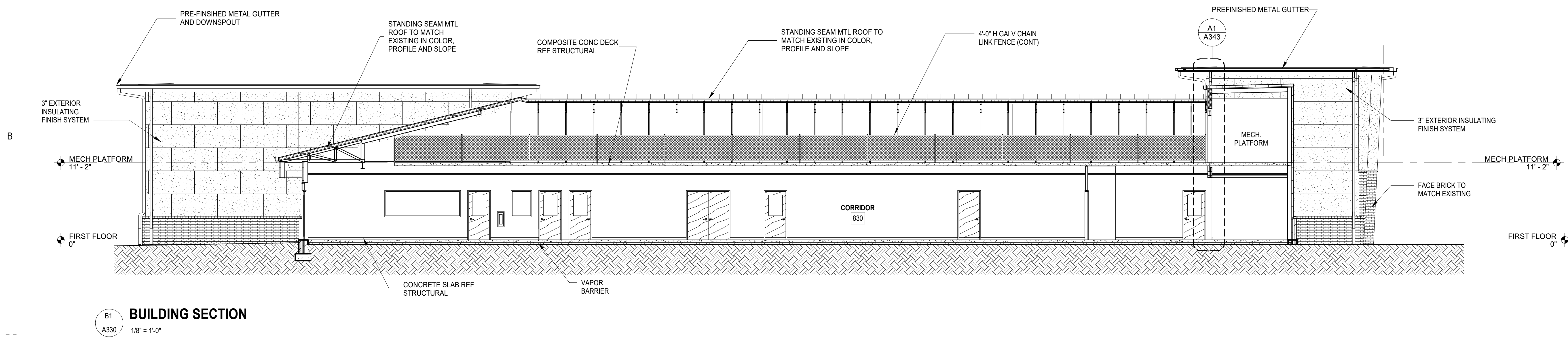
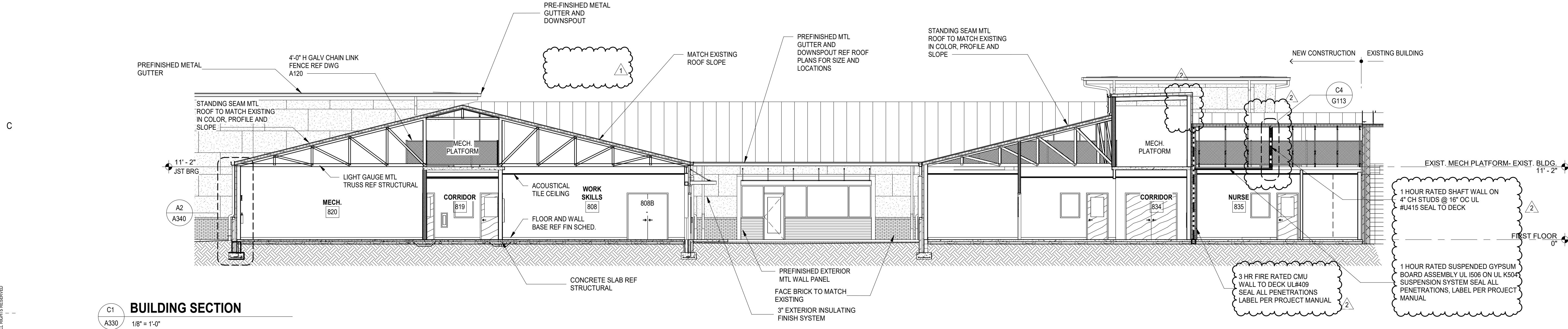
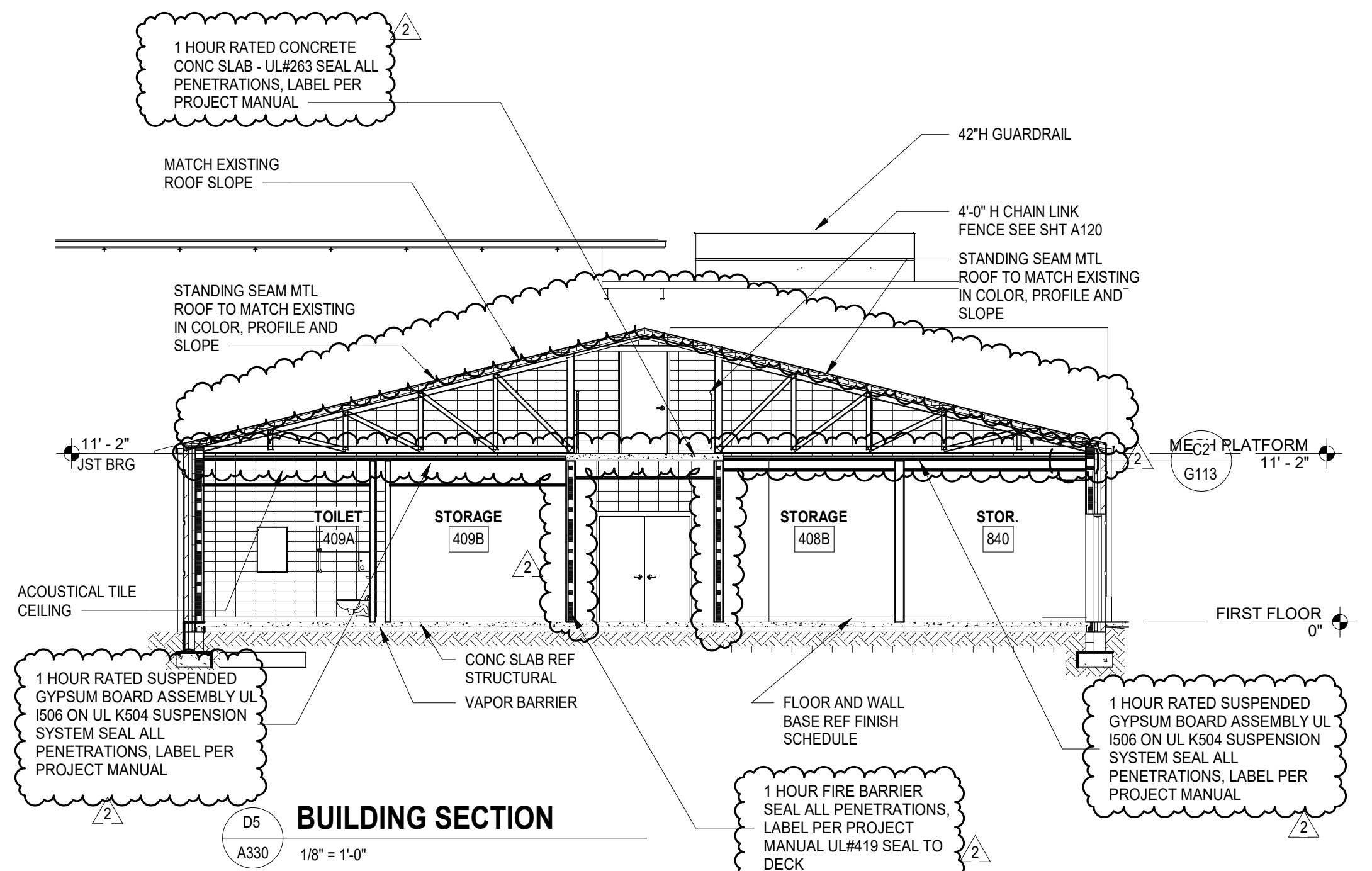
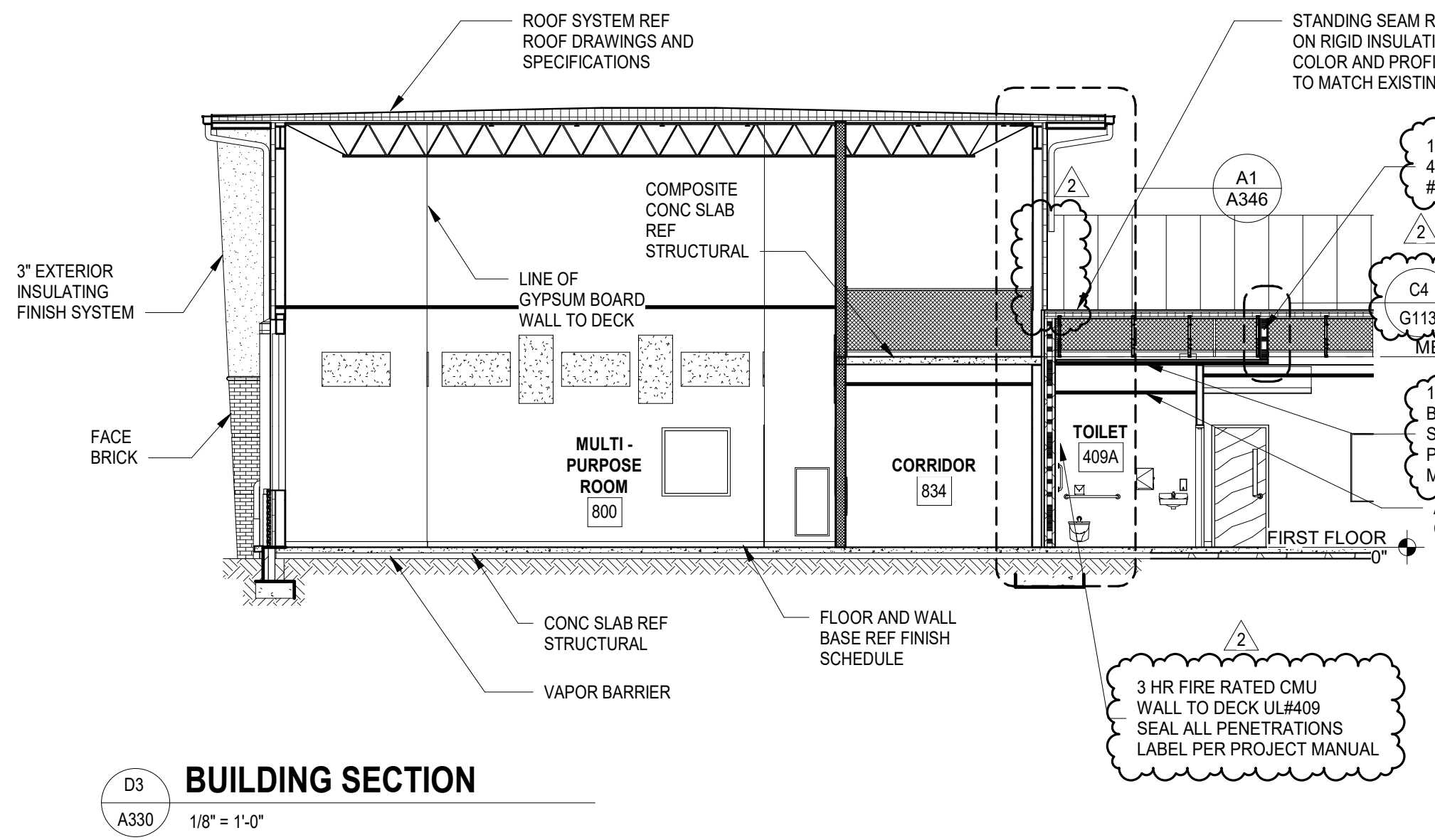
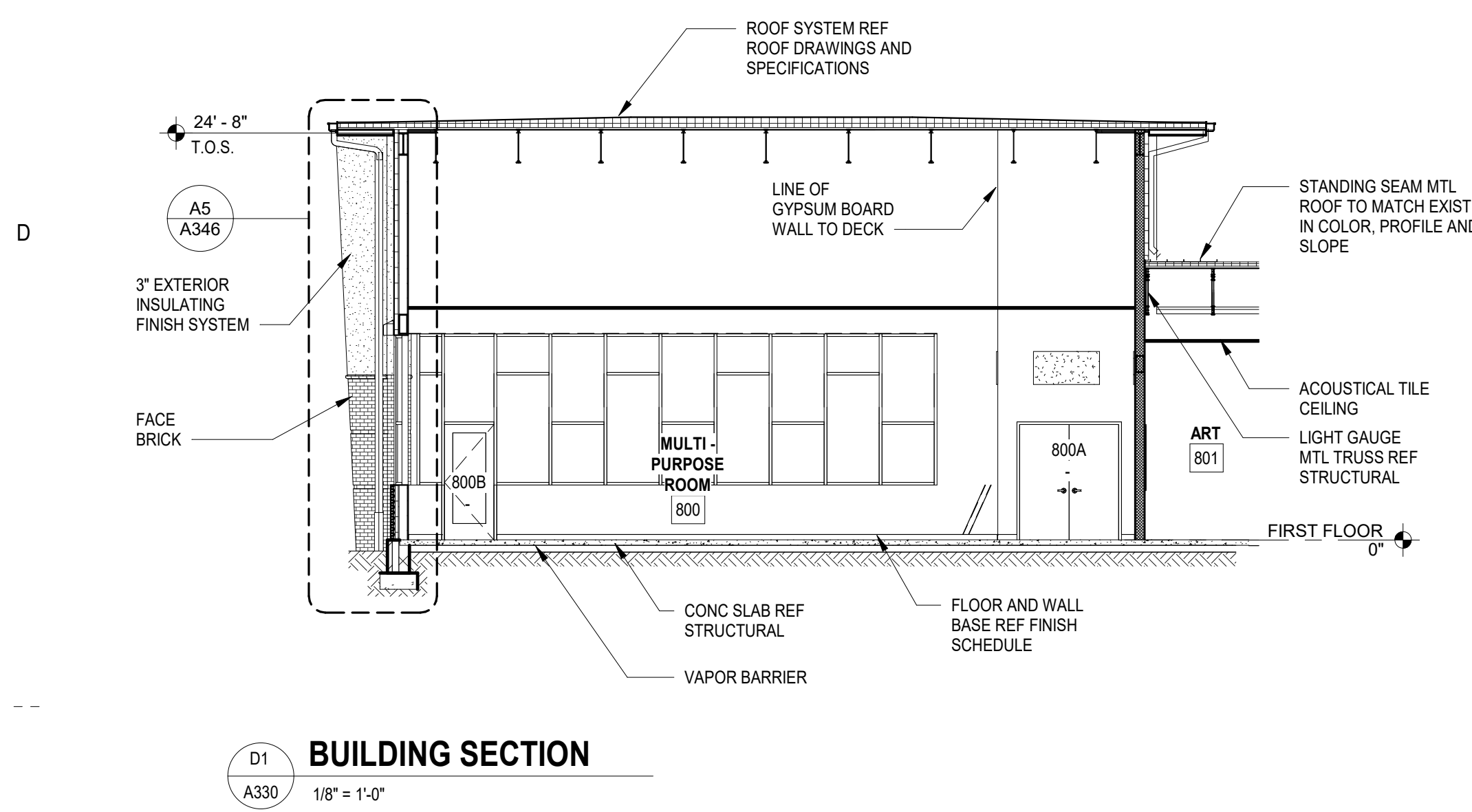
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NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

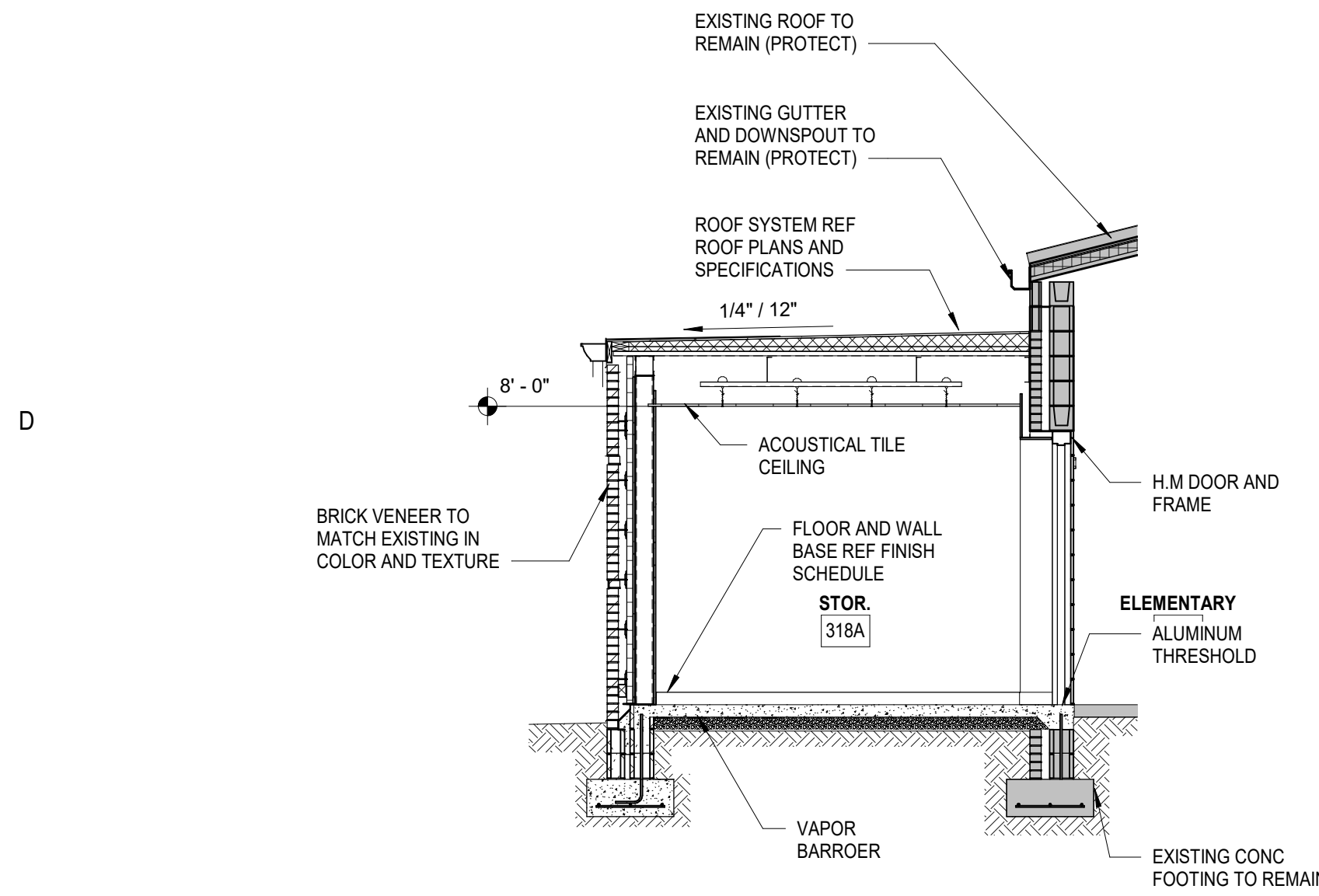
SHEET TITLE:
BUILDING SECTIONS

SHEET NO. PROJ. NO.
 A330 020063.00

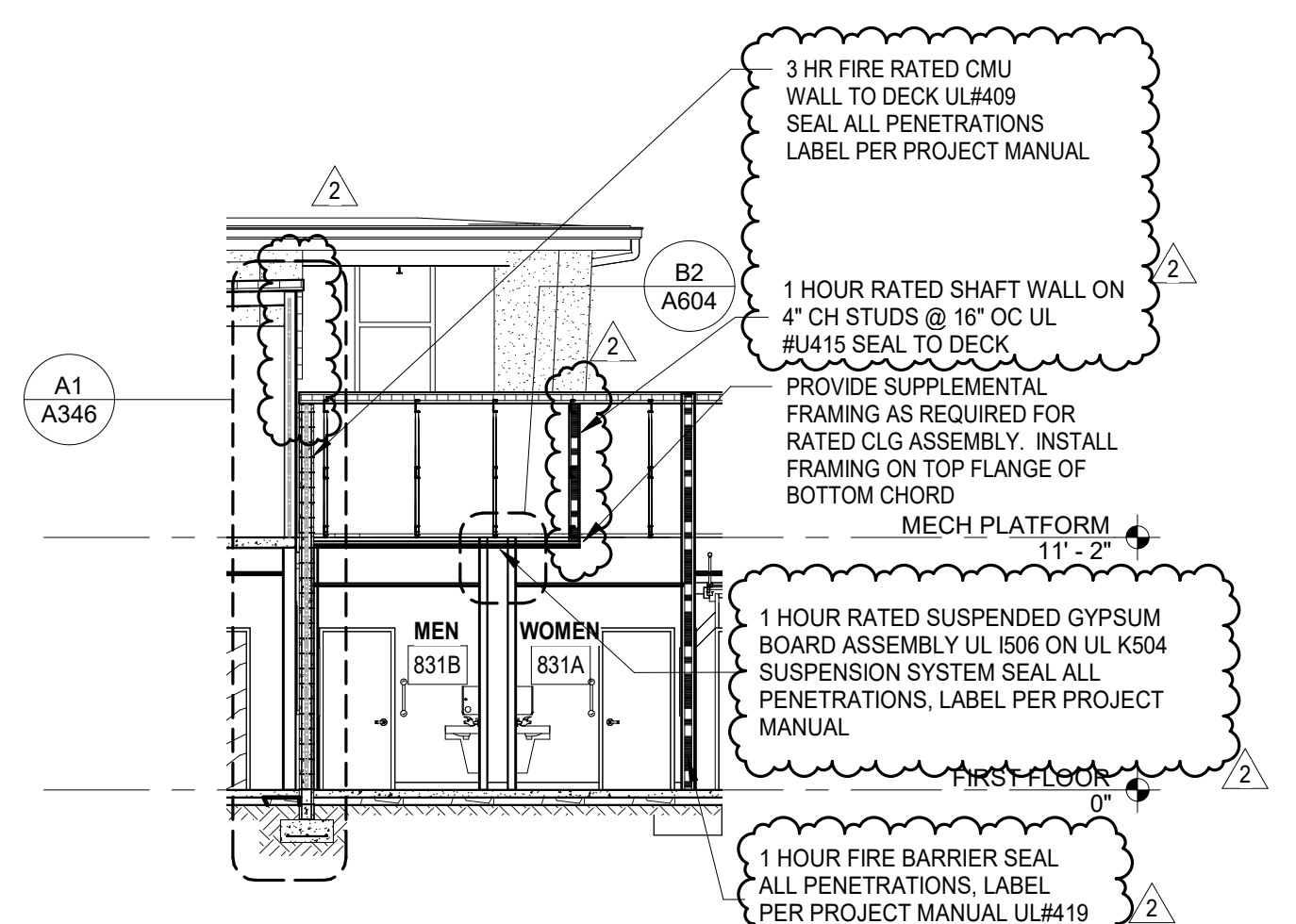


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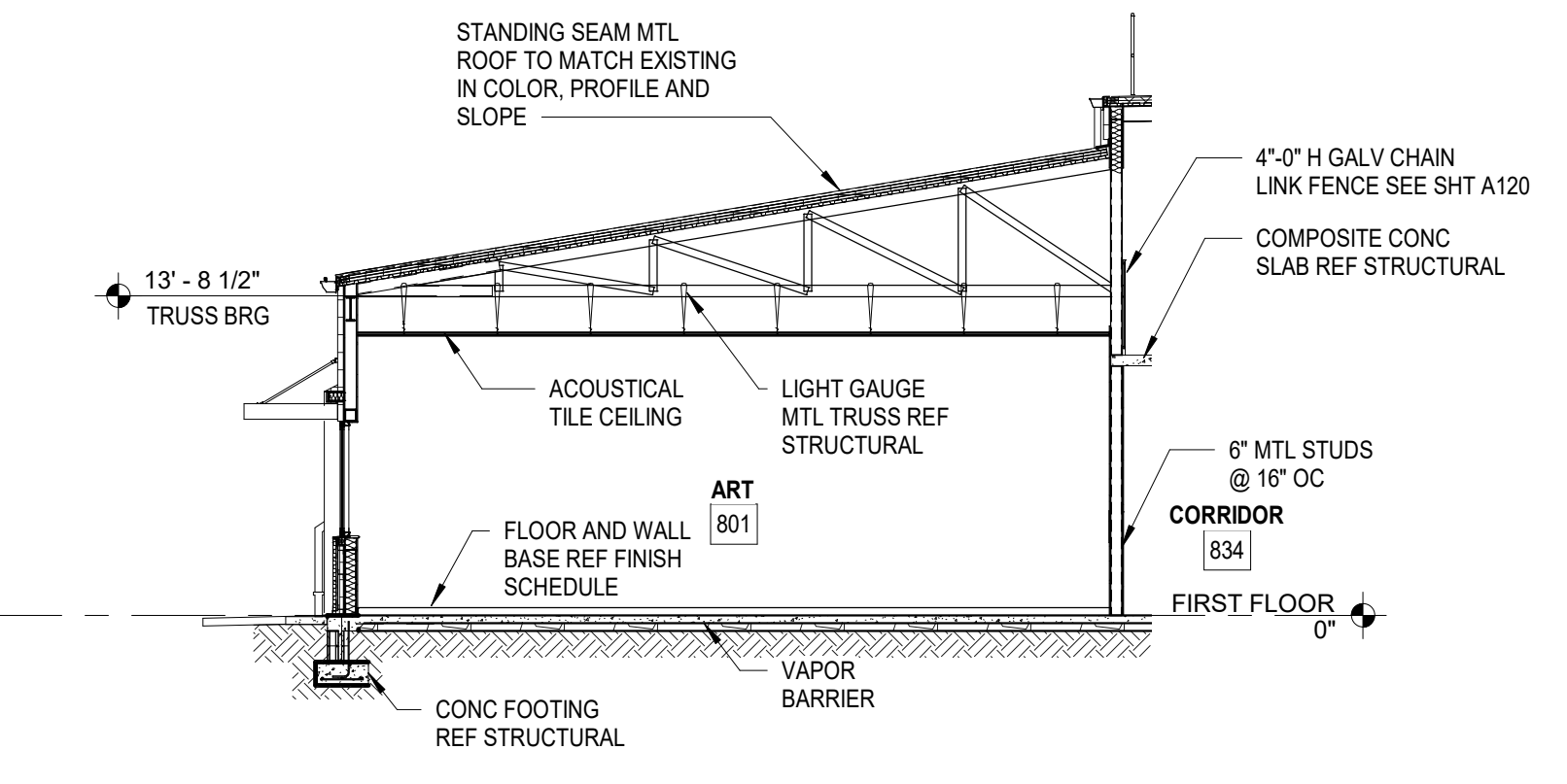
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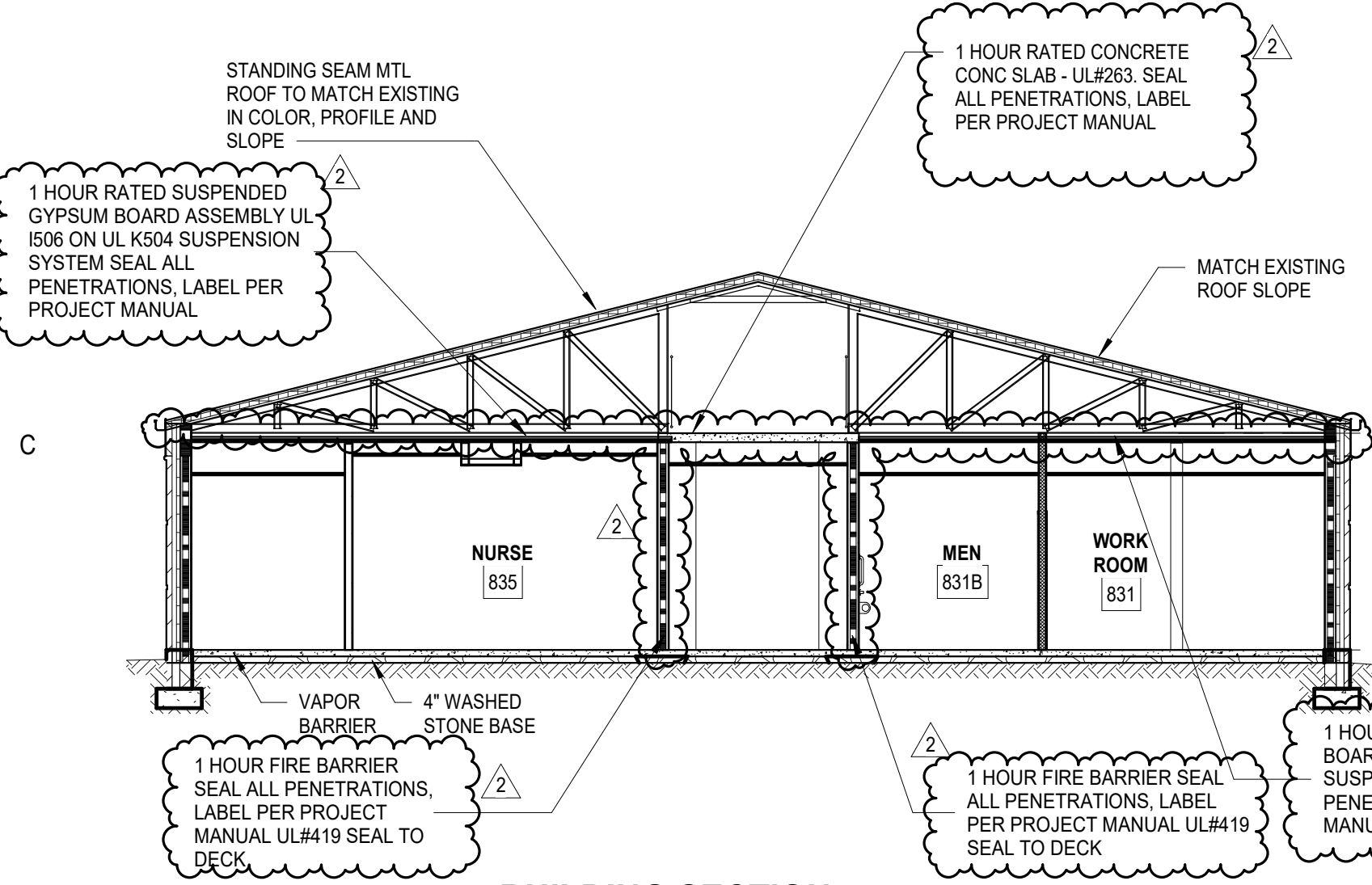
D1 BUILDING SECTION
A331 1/4" = 1'-0"



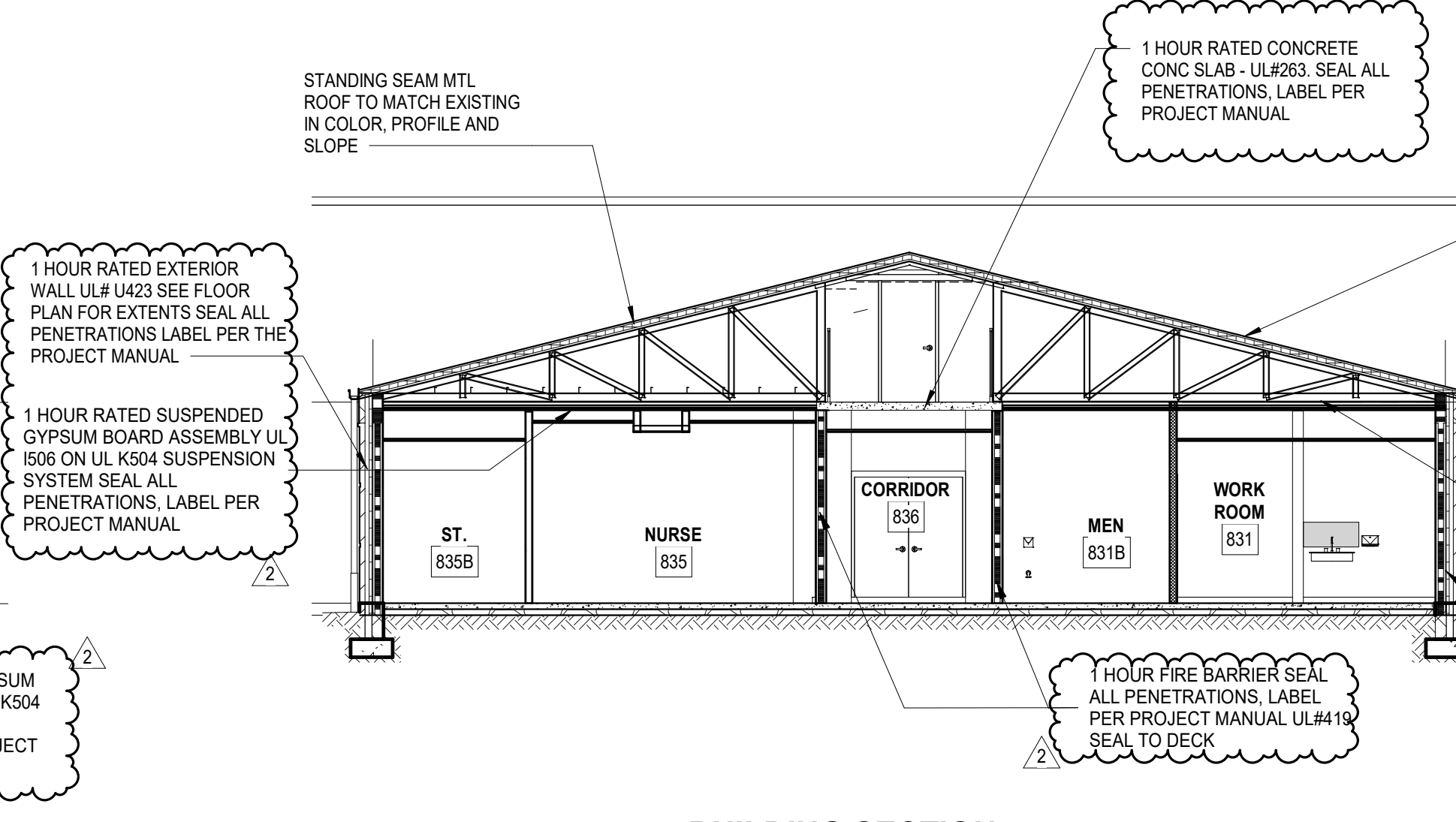
D3 BUILDING SECTION
A331 1/8" = 1'-0"



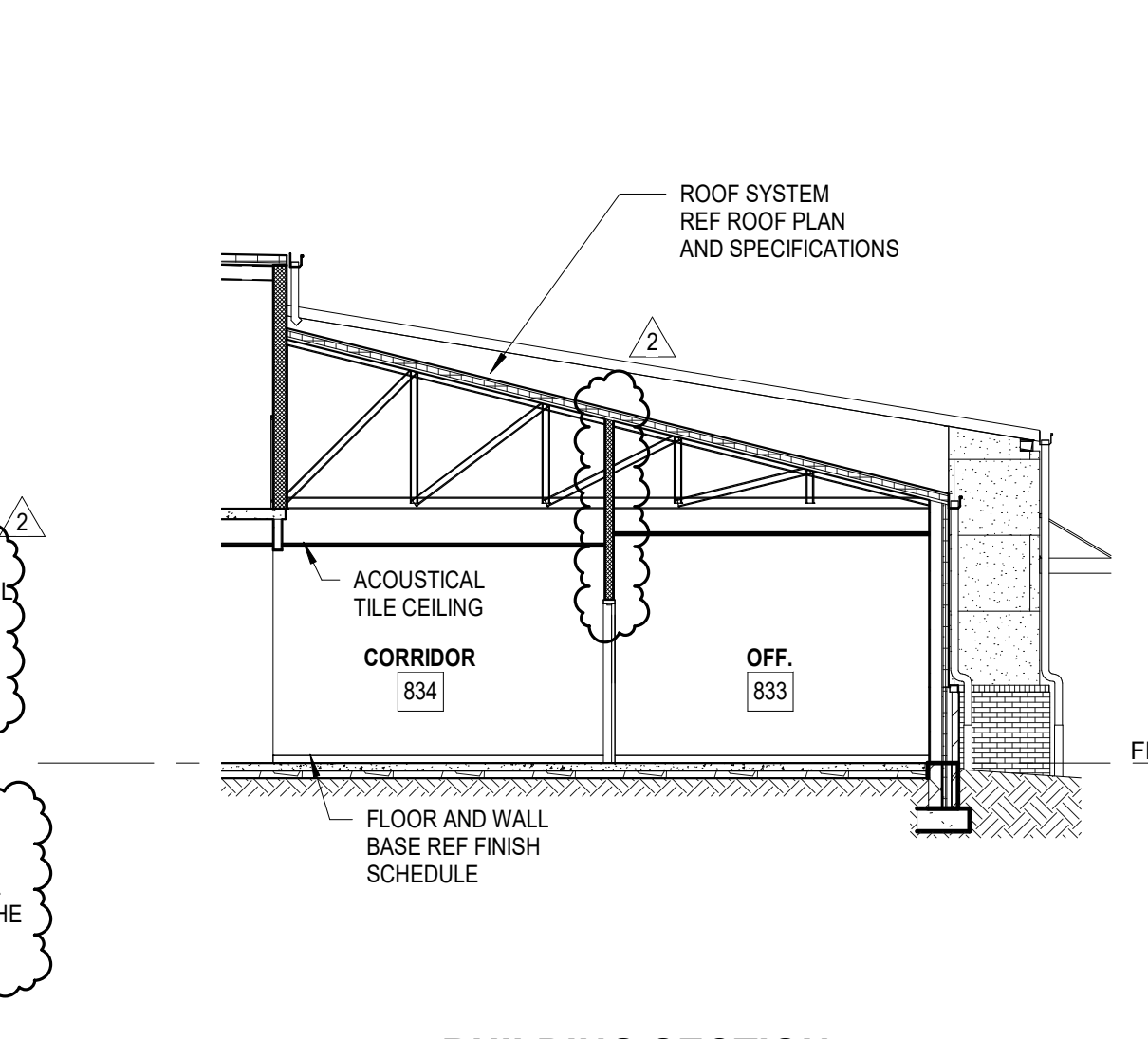
D4 BUILDING SECTION
A331 1/8" = 1'-0"



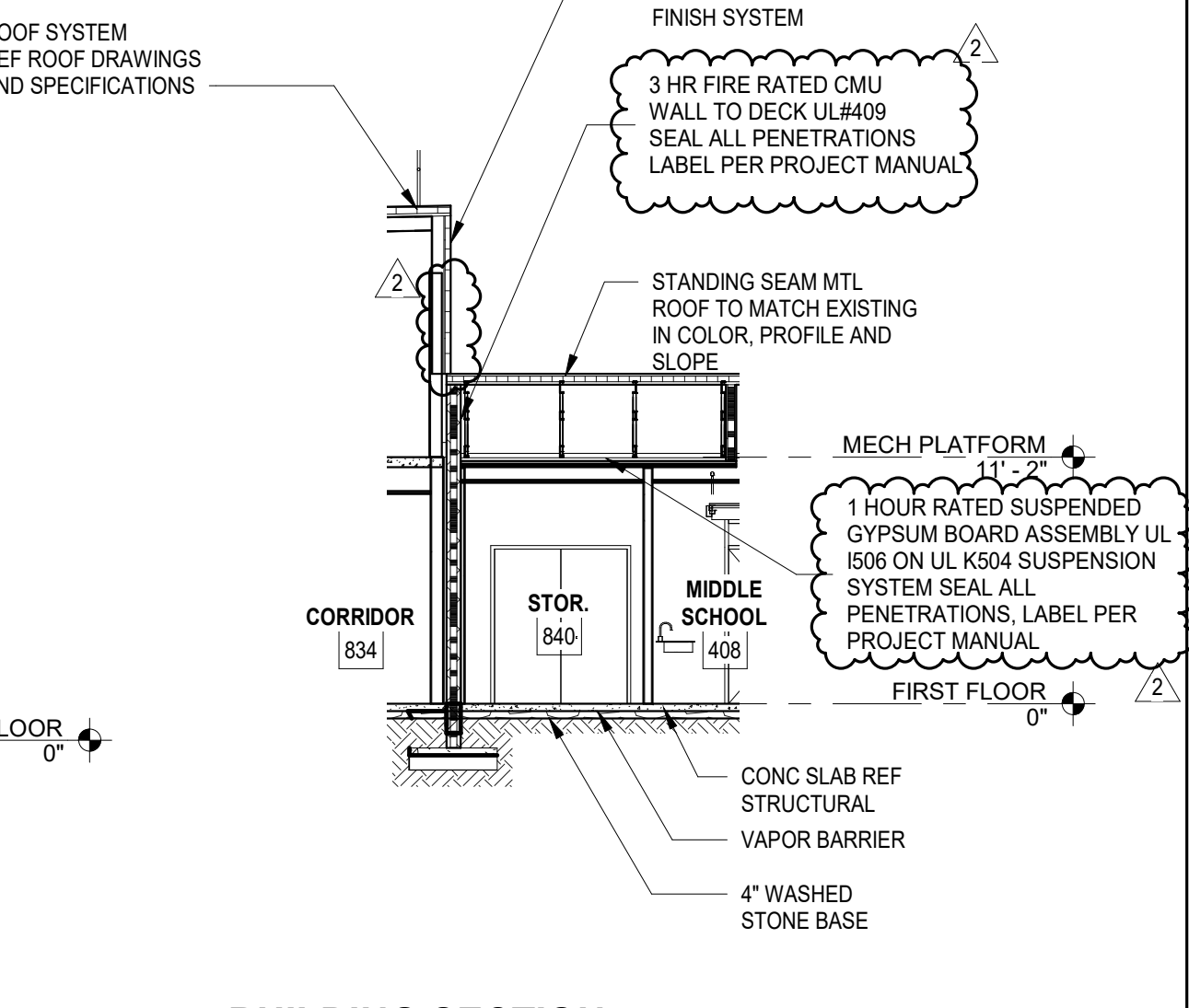
C1 BUILDING SECTION
A331 1/8" = 1'-0"



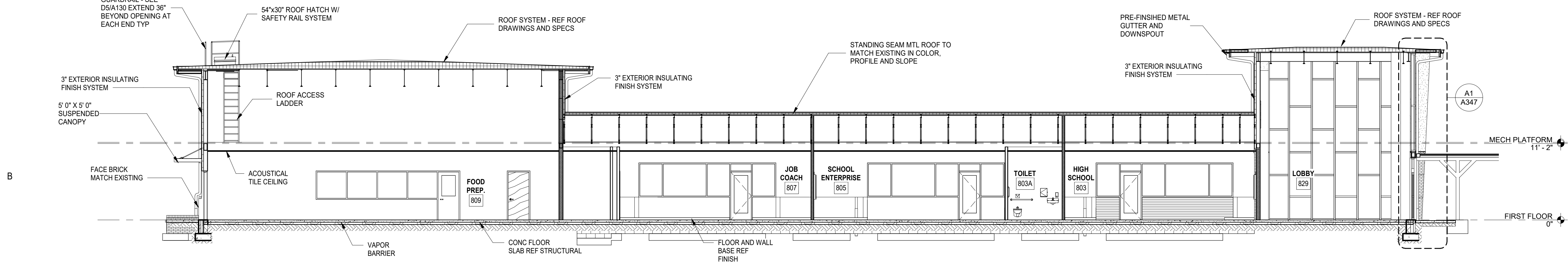
C2 BUILDING SECTION
A331 1/8" = 1'-0"



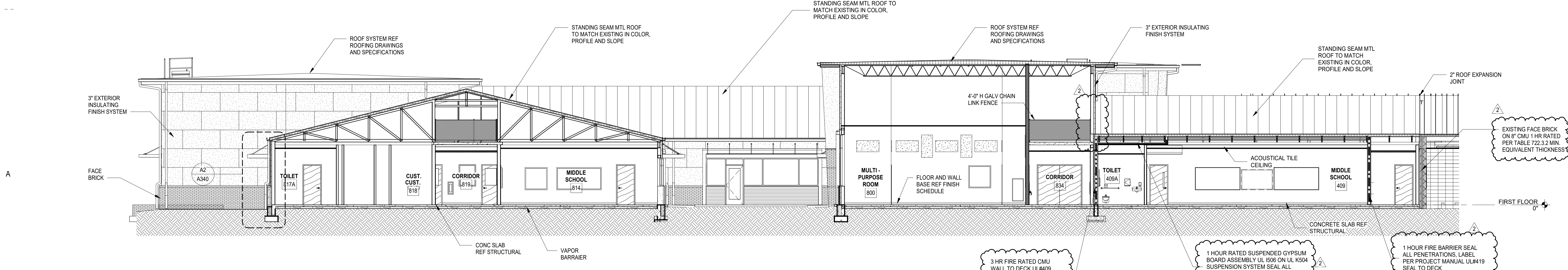
C3 BUILDING SECTION
A331 1/8" = 1'-0"



C5 BUILDING SECTION
A331 1/8" = 1'-0"



B1 BUILDING SECTION
A331 1/8" = 1'-0"



A1 BUILDING SECTION
A331 1/8" = 1'-0"

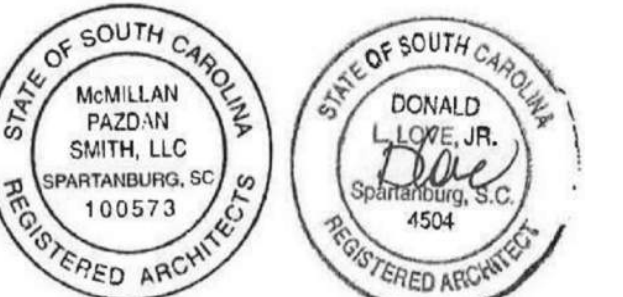
NO.	DATE	DESCRIPTION	BY
2	05/12/2021	Addendum No. 2	DL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DL
 PROJECT ARCHITECT: DL
 DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
BUILDING SECTIONS

SHEET NO. PROJ. NO.
 020603.00

A331



SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

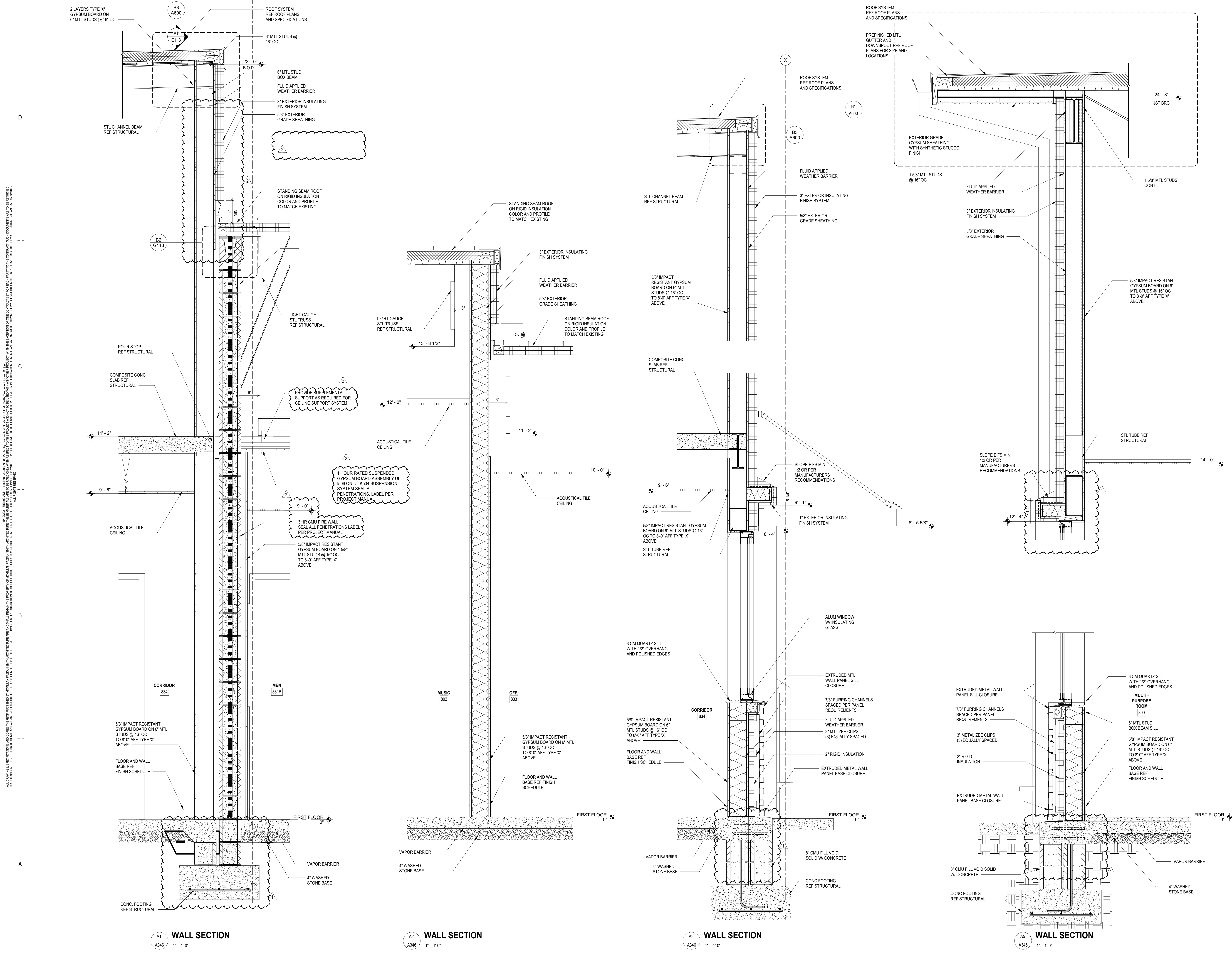
125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
WALL SECTIONS

SHEET NO. PROJ. NO.
 A346 020063.00



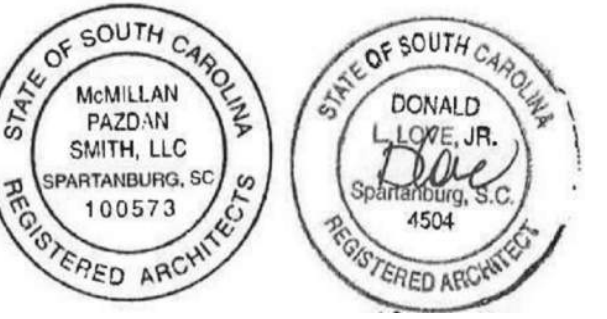
A1 WALL SECTION
 A346 1" = 1'-0"

A2 WALL SECTION
 A346 1" = 1'-0"

A3 WALL SECTION
 A346 1" = 1'-0"

A5 WALL SECTION
 A346 1" = 1'-0"

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SPARTANBURG SCHOOL DISTRICT 7
**ADDITIONS AND RENOVATIONS TO
 THE MCCARTHY TESZLER SCHOOL**
 175 BURGETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

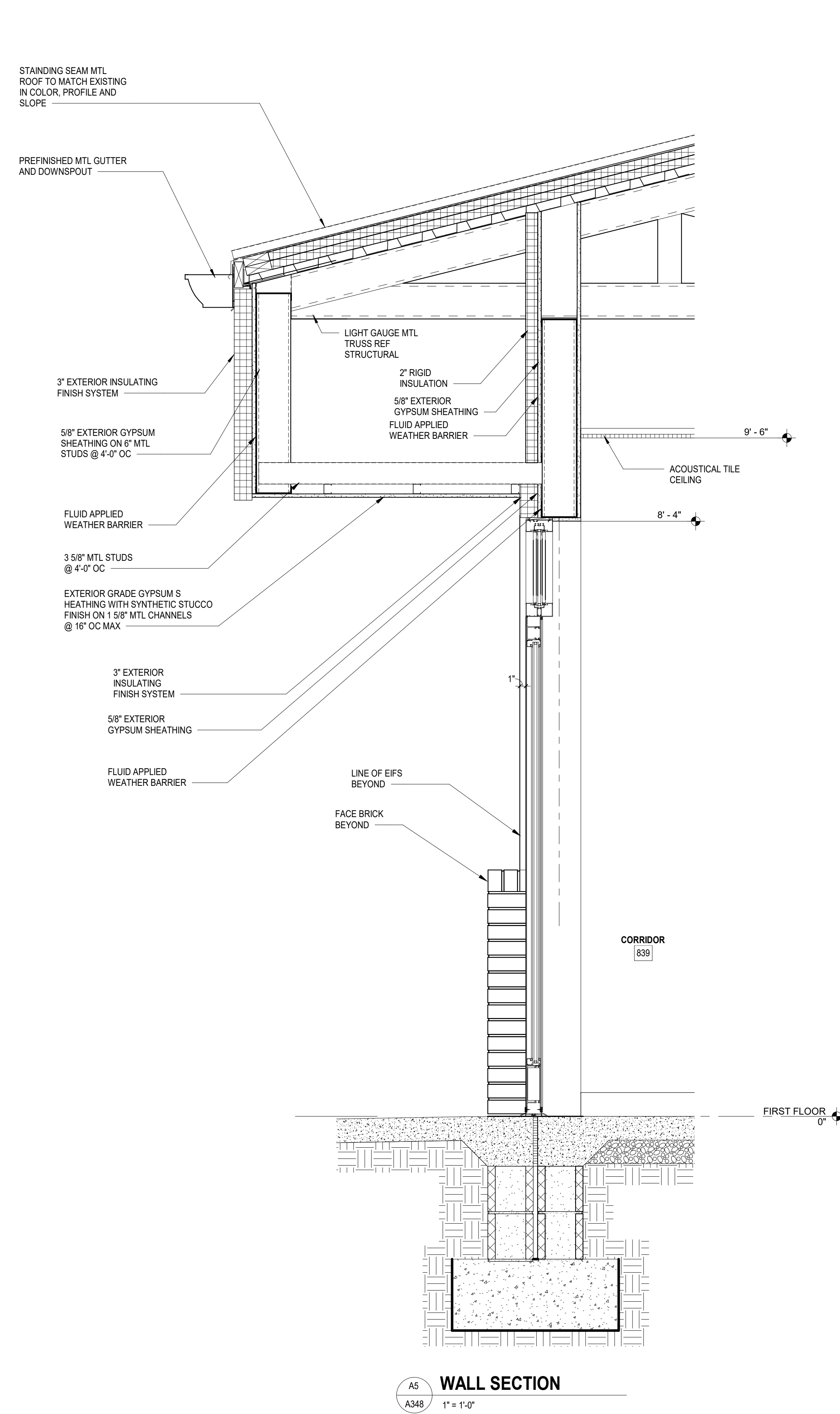
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, D.C.

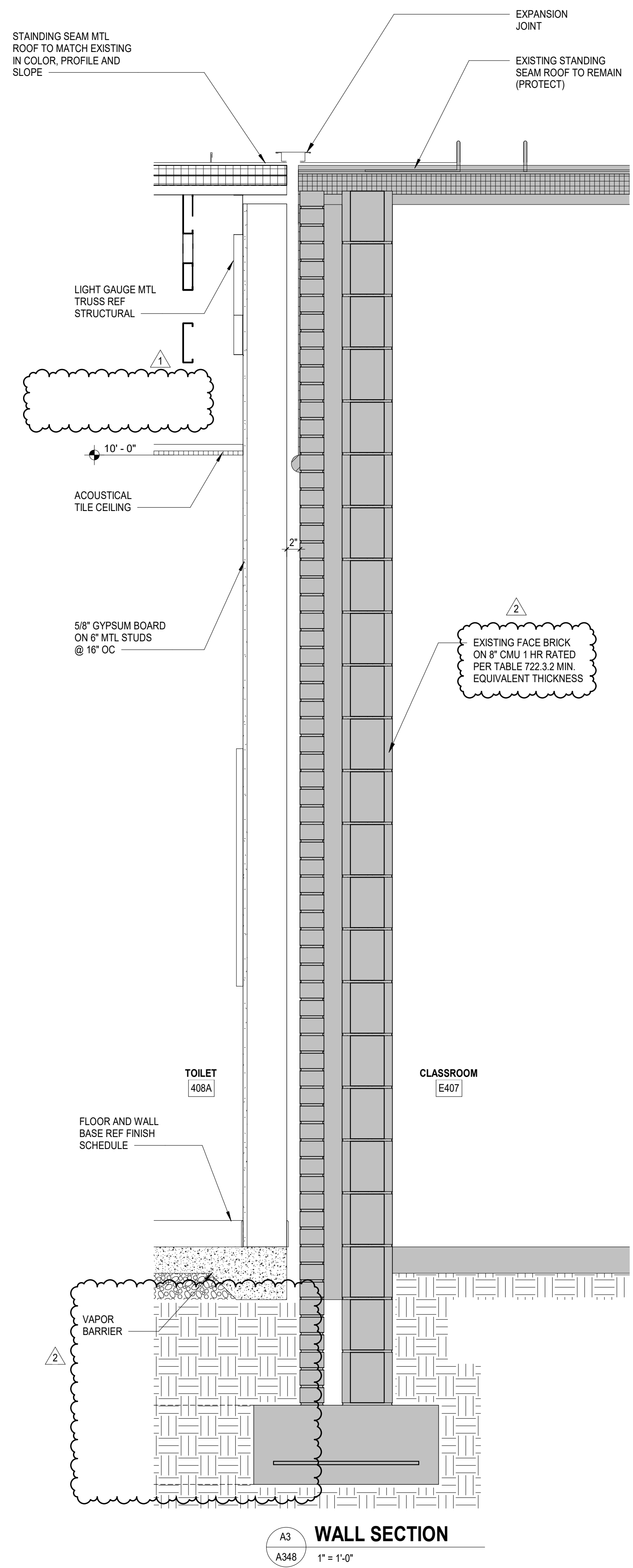
SHEET TITLE:
WALL SECTIONS

SHEET NO. PROJ. NO.
 A348 020063.00

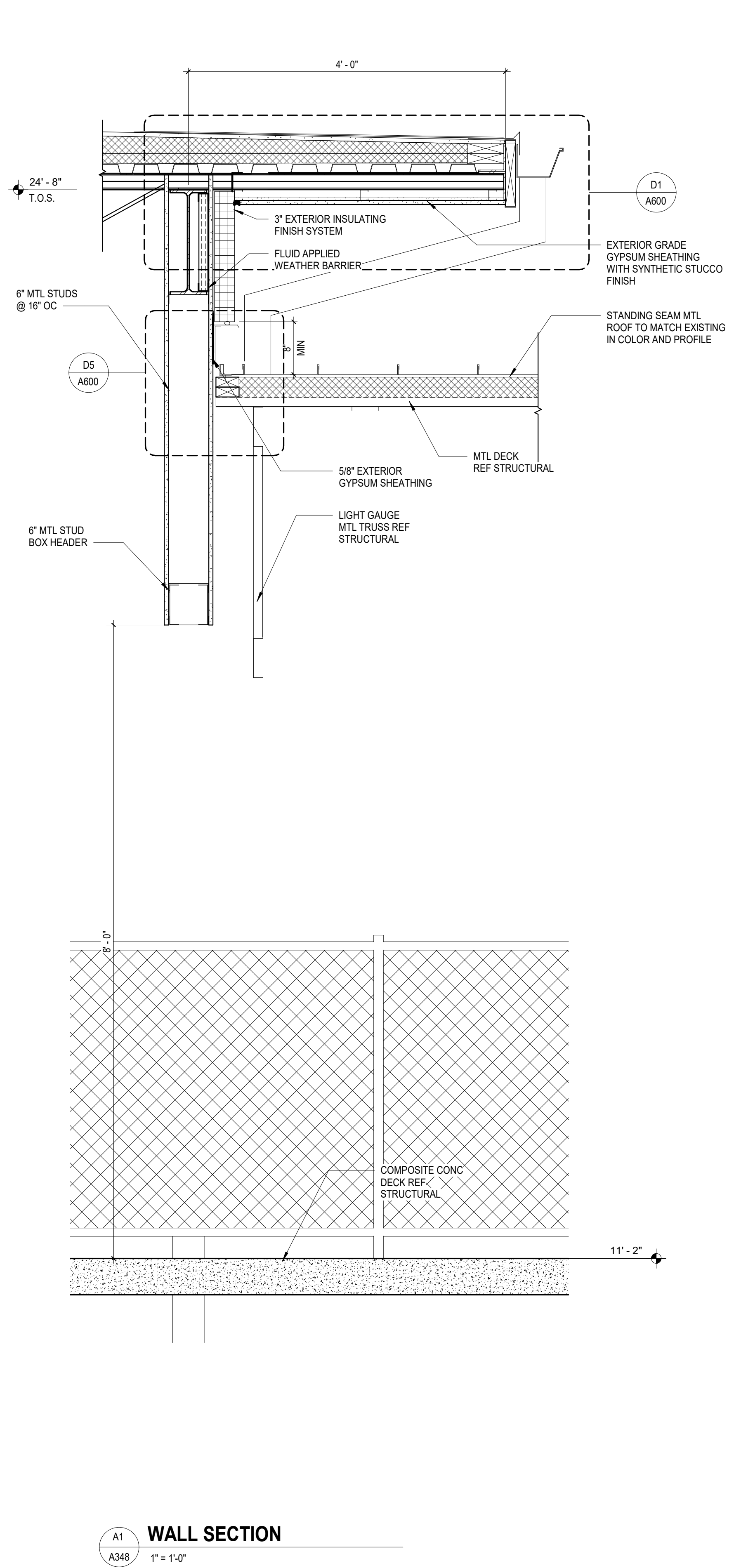
A348



A5 WALL SECTION
 1" = 1'-0"



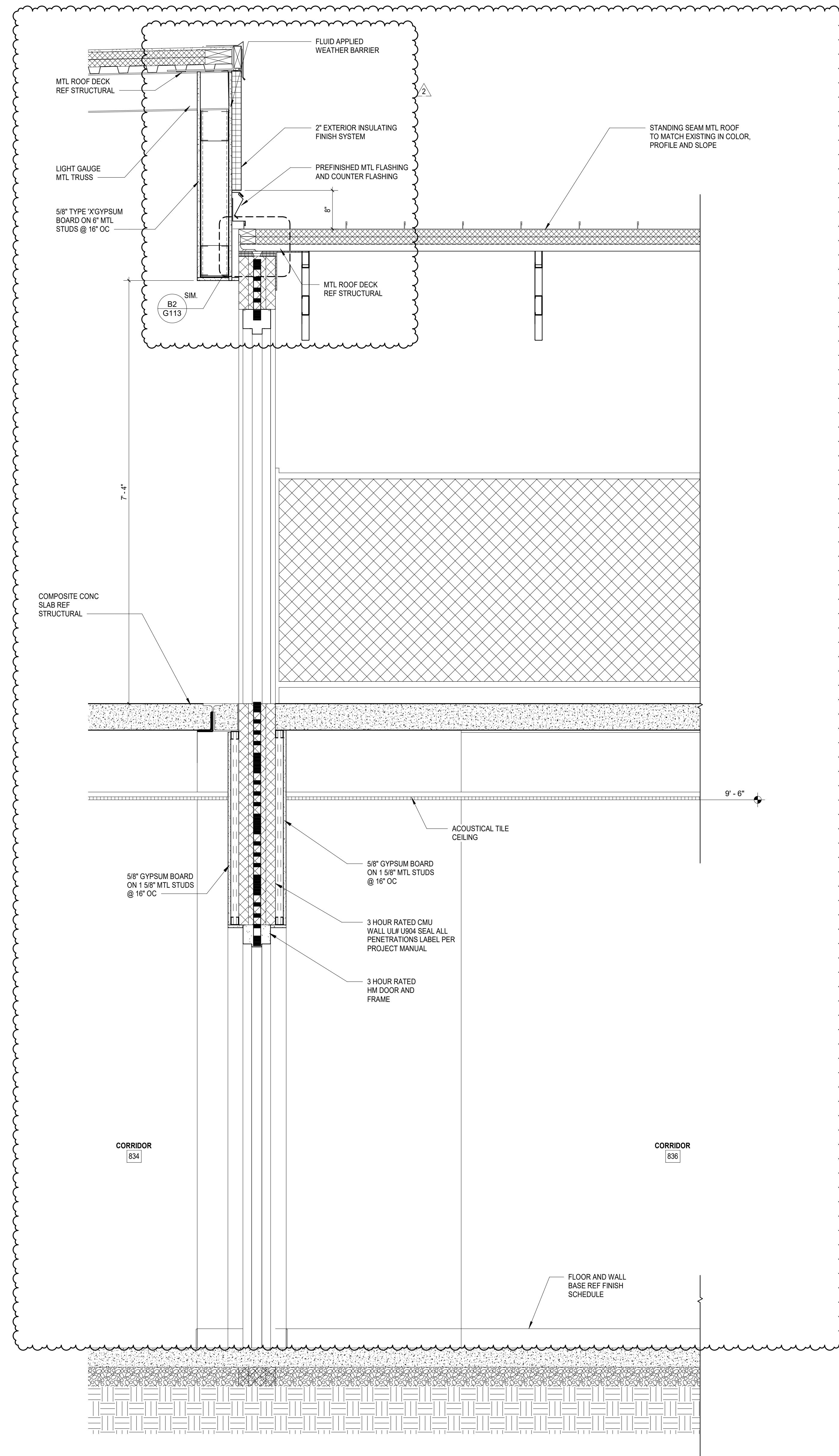
A3 WALL SECTION
 1" = 1'-0"



A1 WALL SECTION
 1" = 1'-0"

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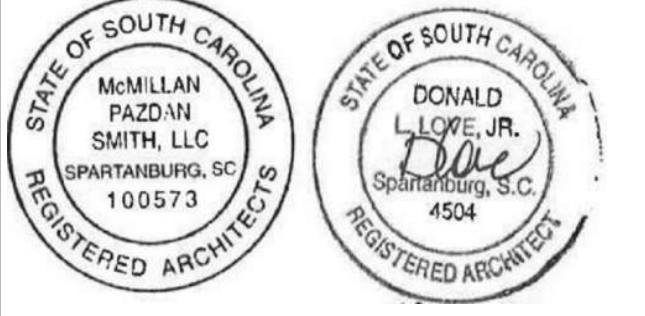
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A4
 A349
WALL SECTION
 1" = 1'-0"

CONSULTANT LOGO

SEALS



SPARTANBURG SCHOOL DISTRICT 7
**ADDITIONS AND RENOVATIONS TO
 THE MCCARTHY TESZLER SCHOOL**
 125 BURGETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

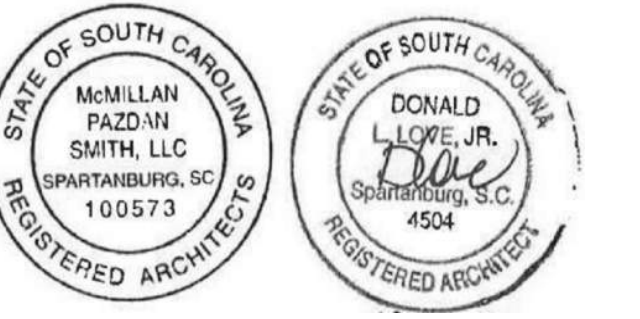
SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, D.C.

SHEET TITLE:
WALL SECTIONS

SHEET NO. PROJ. NO.
 020063.00



SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

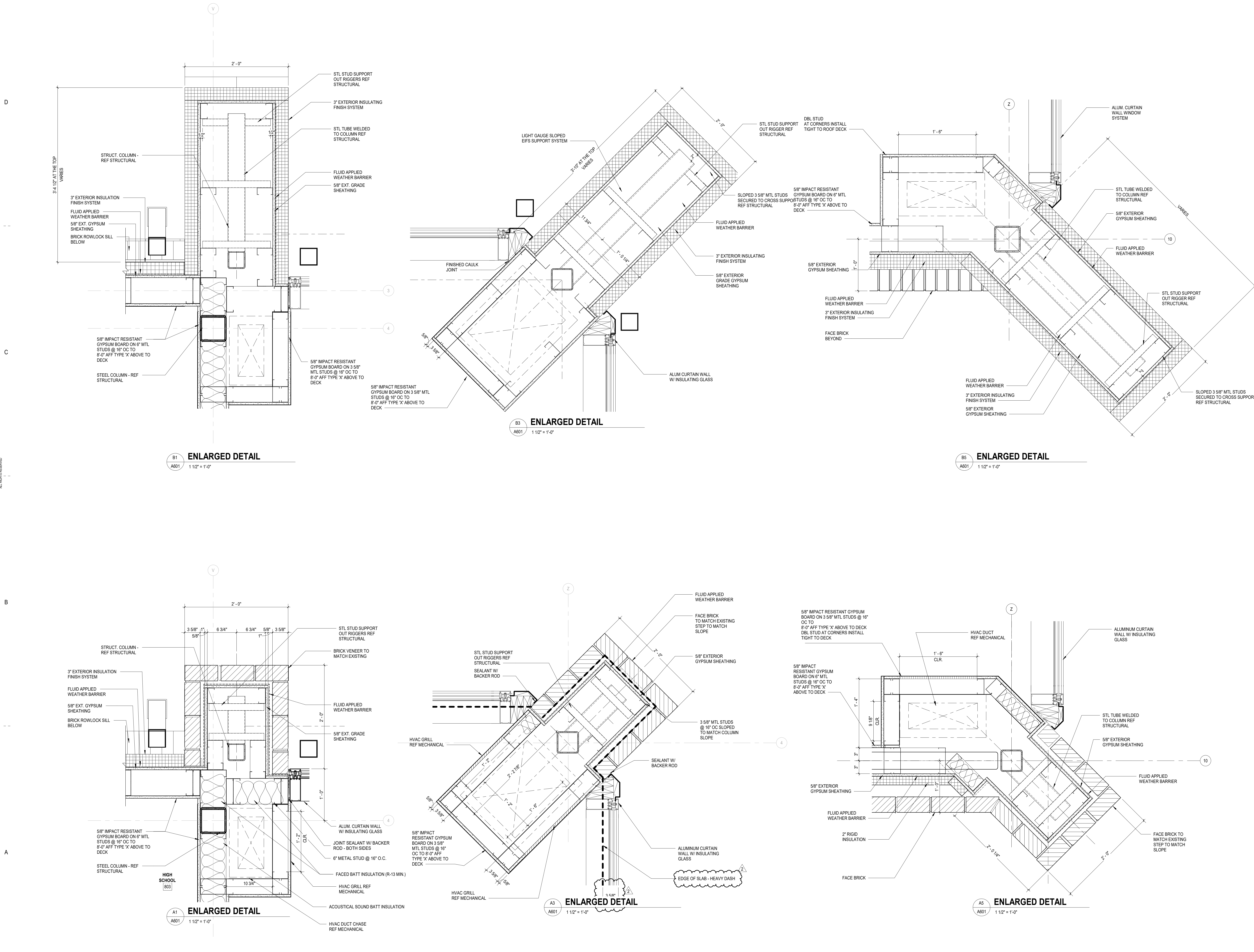
CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
ENLARGED DETAILS

SHEET NO. PROJ. NO.
 020063.00

A601

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B1 ENLARGED DETAIL
 A601 1 1/2" = 1'-0"

B3 ENLARGED DETAIL
 A601 1 1/2" = 1'-0"

B5 ENLARGED DETAIL
 A601 1 1/2" = 1'-0"

A1 ENLARGED DETAIL
 A601 1 1/2" = 1'-0"

A3 ENLARGED DETAIL
 A601 1 1/2" = 1'-0"

A5 ENLARGED DETAIL
 A601 1 1/2" = 1'-0"

SHEET ISSUE:

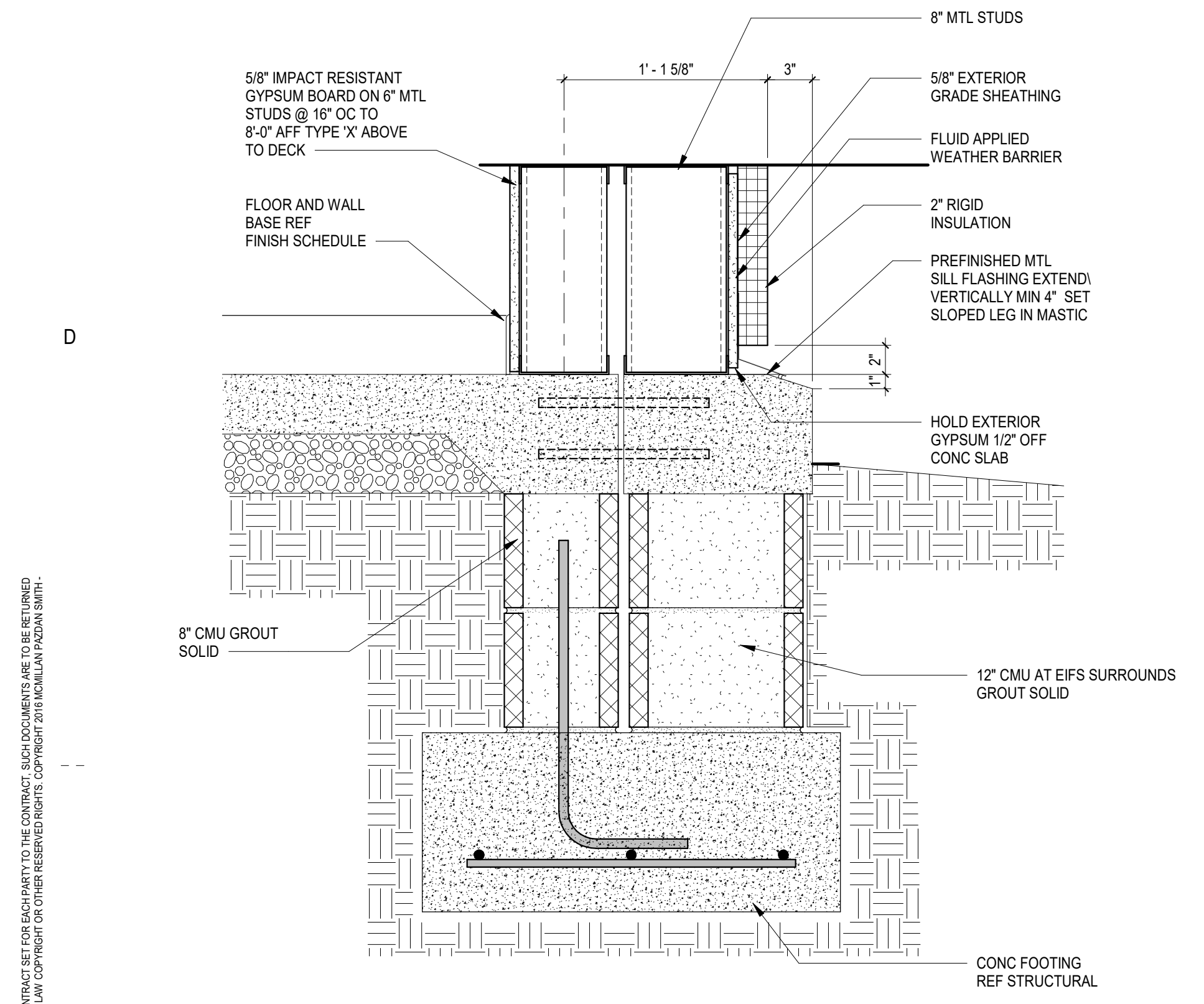
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DLL
2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, D.C.

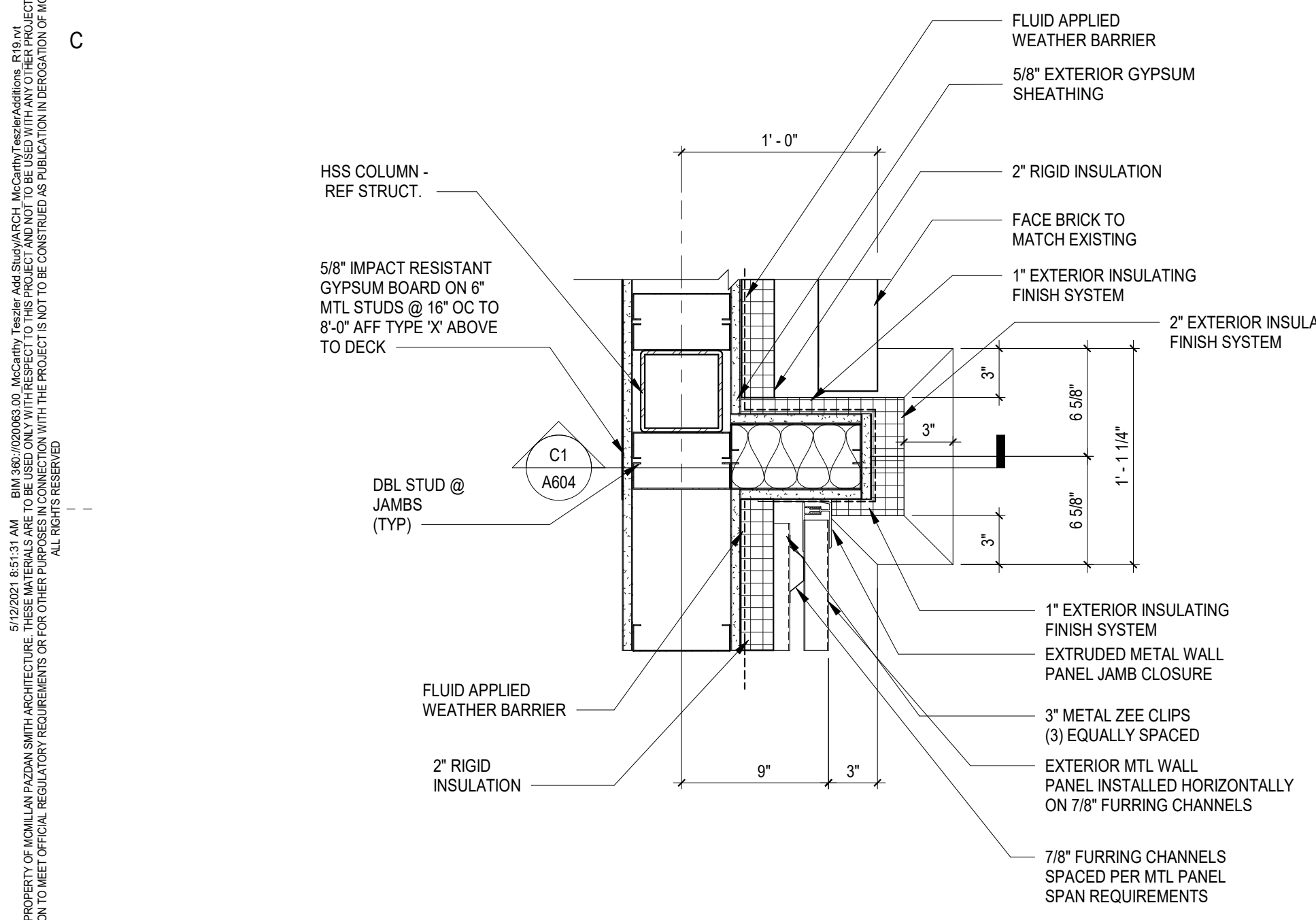
SHEET TITLE:
ENLARGED DETAILS

SHEET NO. PROJ. NO.
 020063.00

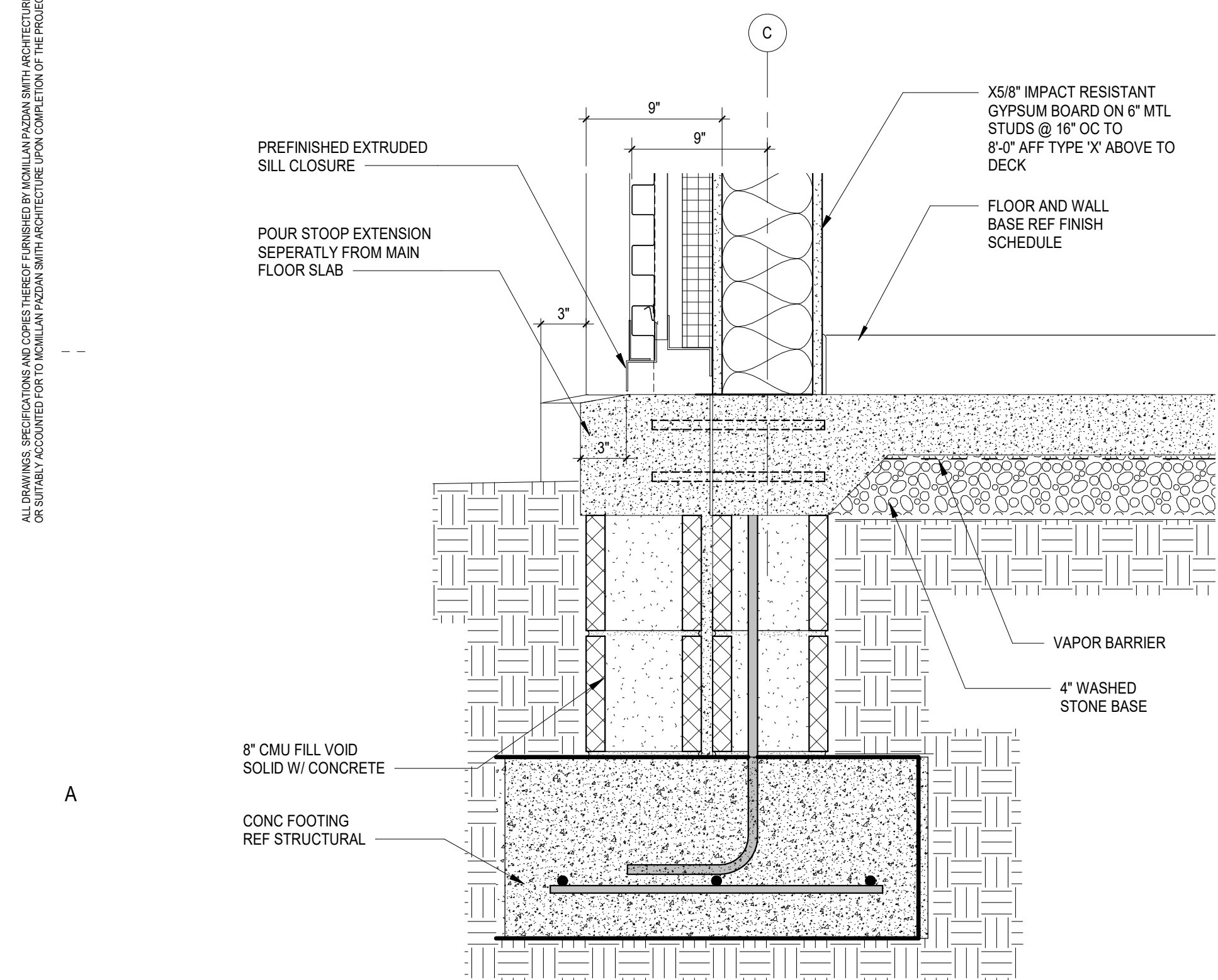
A604



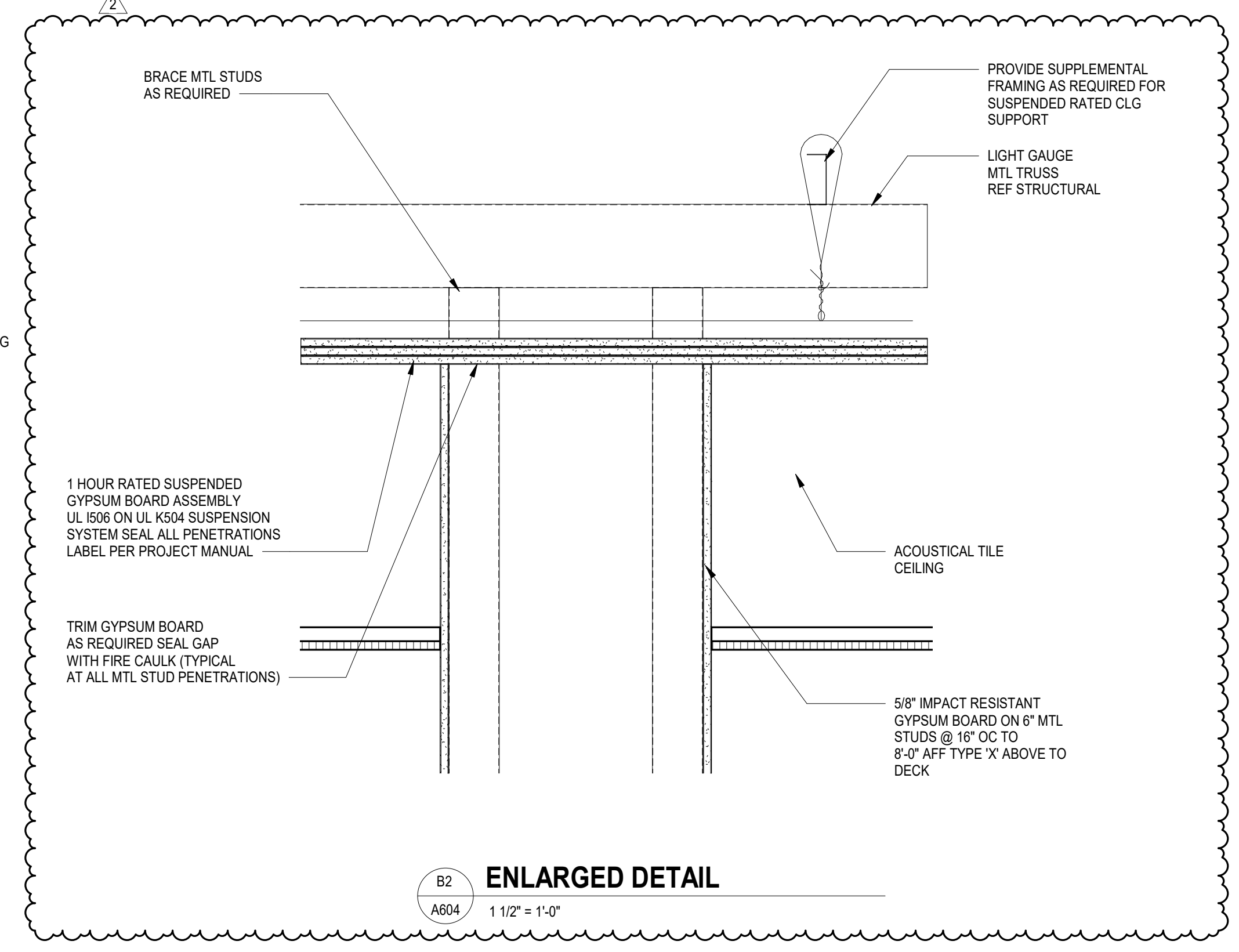
C1 ENLARGED DETAIL
 A604 1 1/2" = 1'-0"



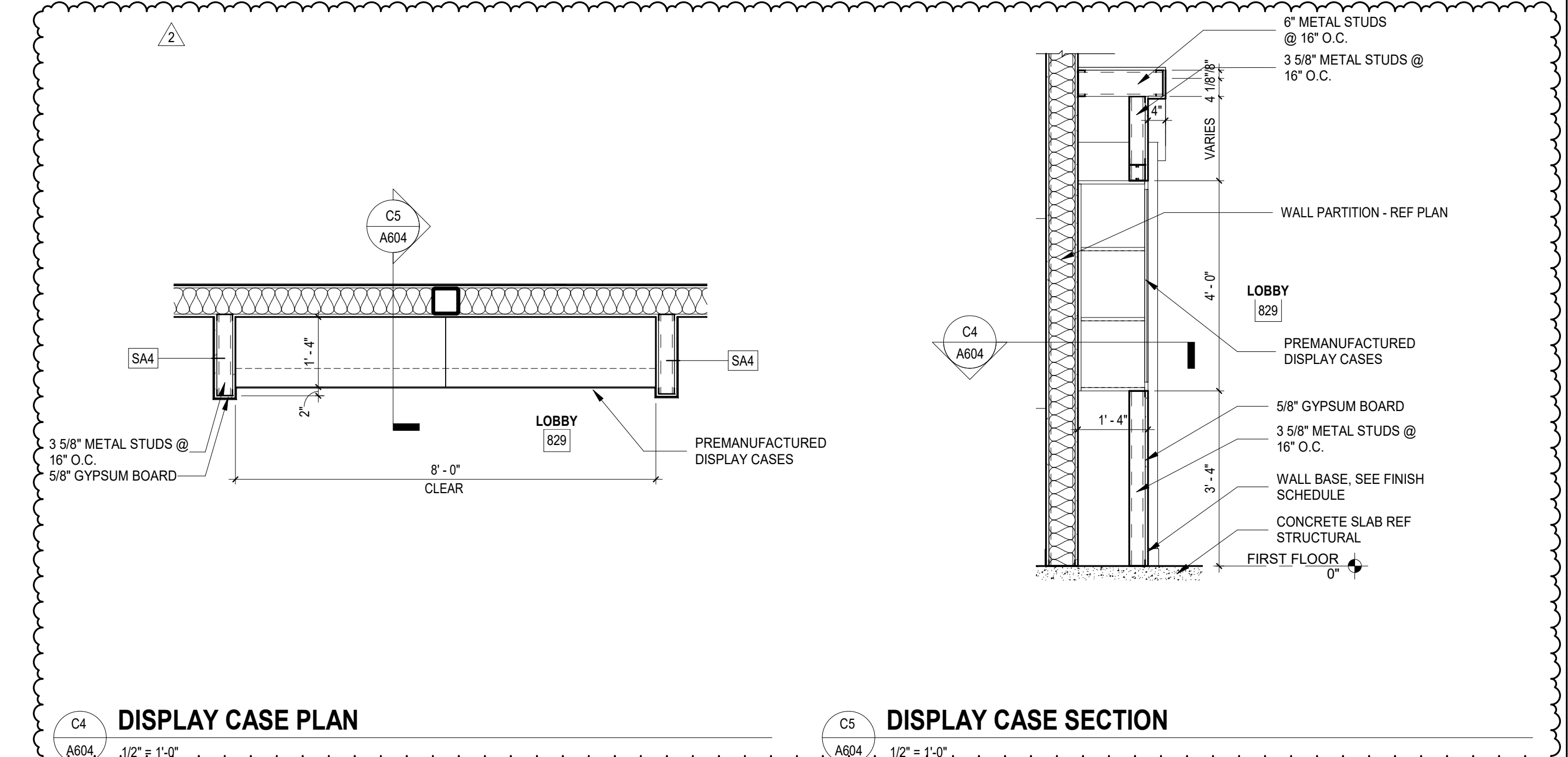
B1 ENLARGED DETAIL
 A604 1 1/2" = 1'-0"



A1 ENLARGED DETAIL
 A604 1 1/2" = 1'-0"

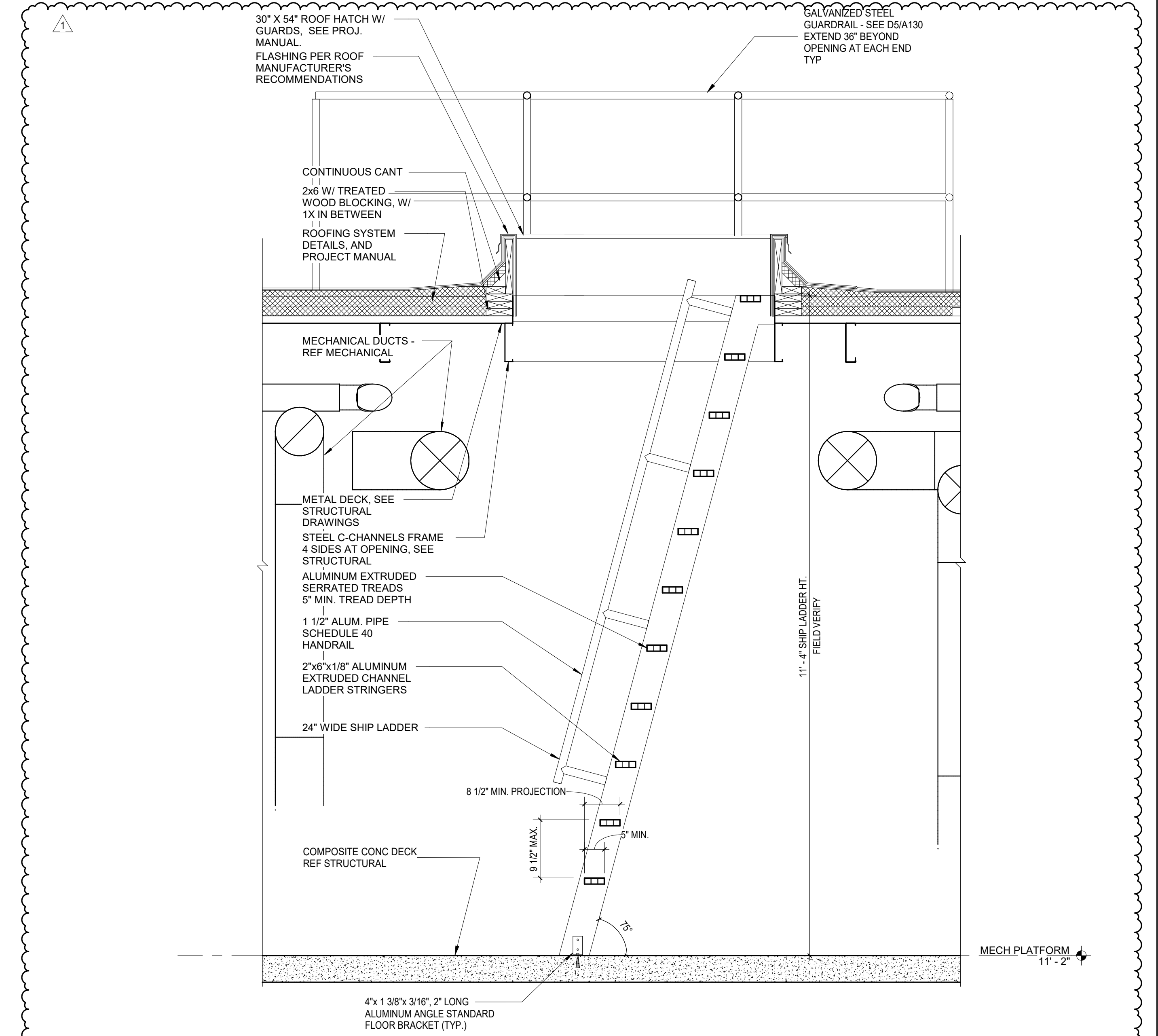


B2 ENLARGED DETAIL
 A604 1 1/2" = 1'-0"



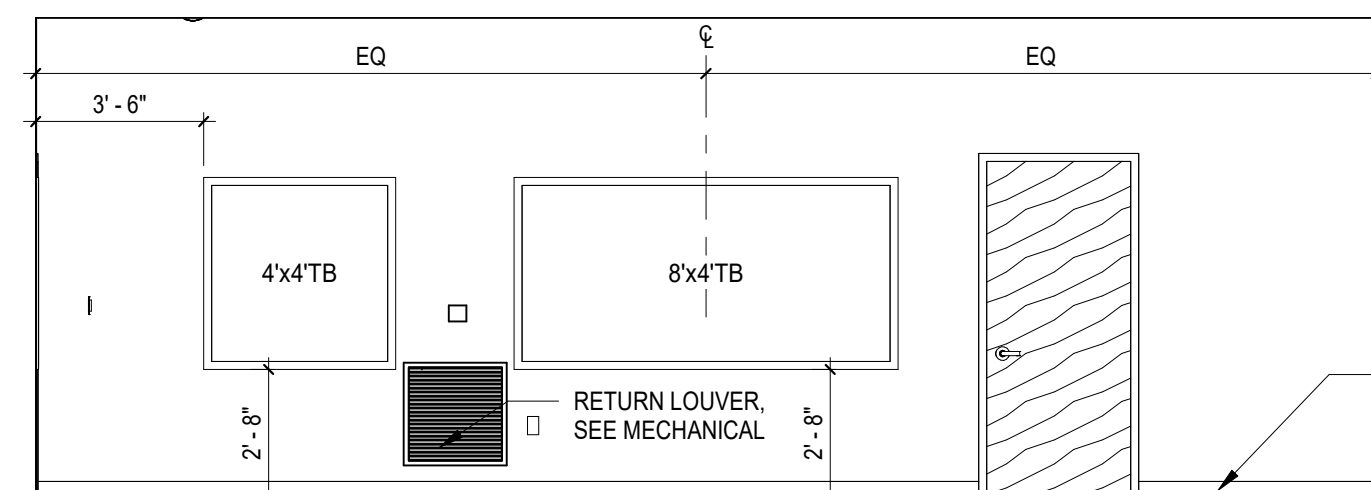
DISPLAY CASE PLAN
 A604 1 1/2" = 1'-0"

DISPLAY CASE SECTION
 A604 1 1/2" = 1'-0"

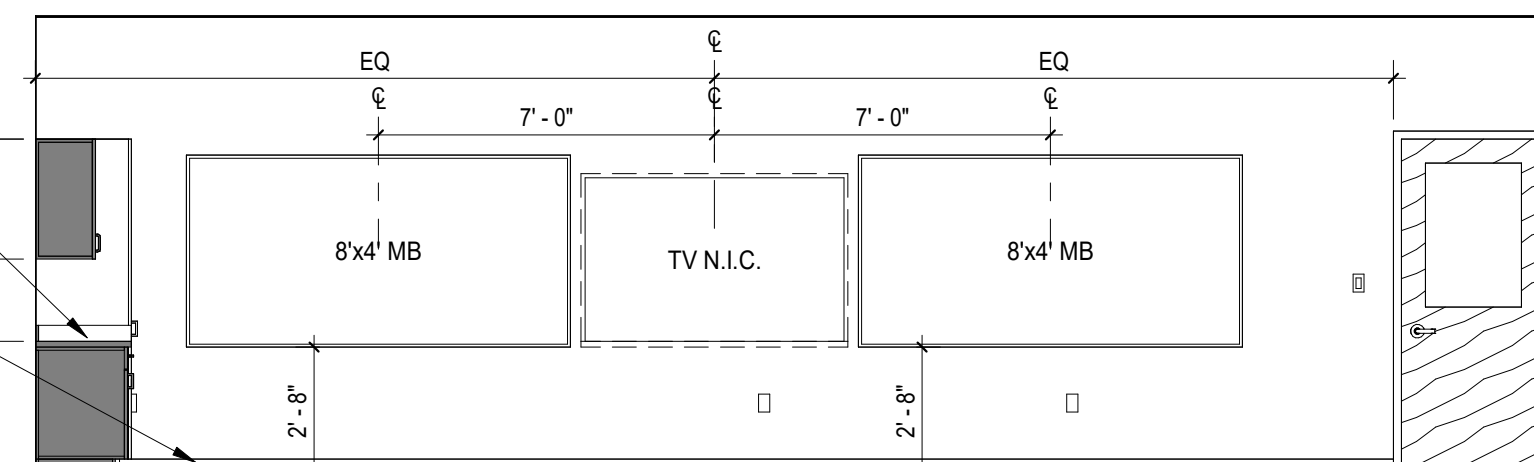


SHIP LADDER DETAIL
 A604 3/4" = 1'-0" REFERENCE: A1/A120

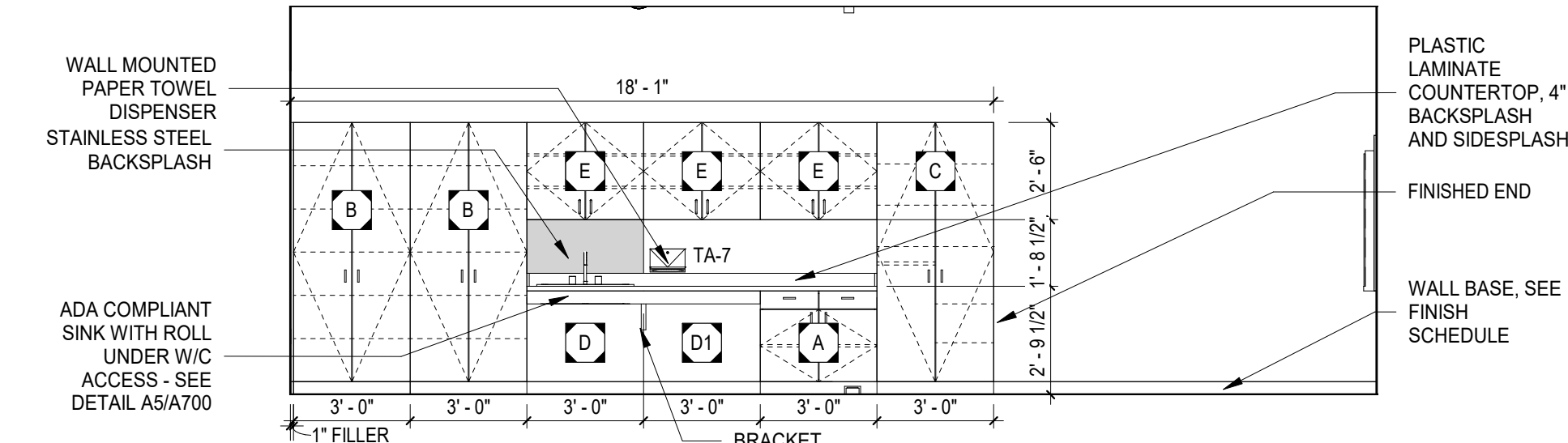
ALL DRAWINGS, SPECIFICATIONS AND COPIES THEREOF FURNISHED BY MC MILLAN PAZDAN SMITH ARCHITECTURE ARE AND SHALL REMAIN THE PROPERTY OF MC MILLAN PAZDAN SMITH ARCHITECTURE. NO PART OF THIS DRAWING OR SPECIFICATION SHALL BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF MC MILLAN PAZDAN SMITH ARCHITECTURE. THE PROJECT ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING OR SPECIFICATION. THE PROJECT ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING OR SPECIFICATION. THE PROJECT ARCHITECT ASSUMES NO LIABILITY FOR ANY DAMAGE TO PERSONS OR PROPERTY ARISING FROM THE USE OF THIS DRAWING OR SPECIFICATION.



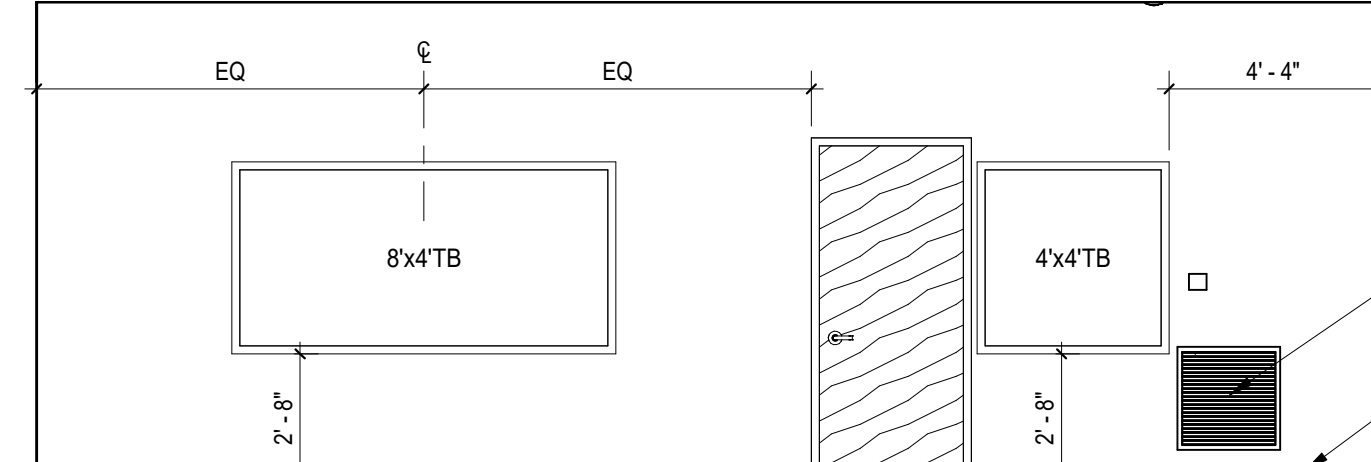
B1A MIDDLE SCHOOL - INTERIOR ELEVATION
1/4" = 1'-0"



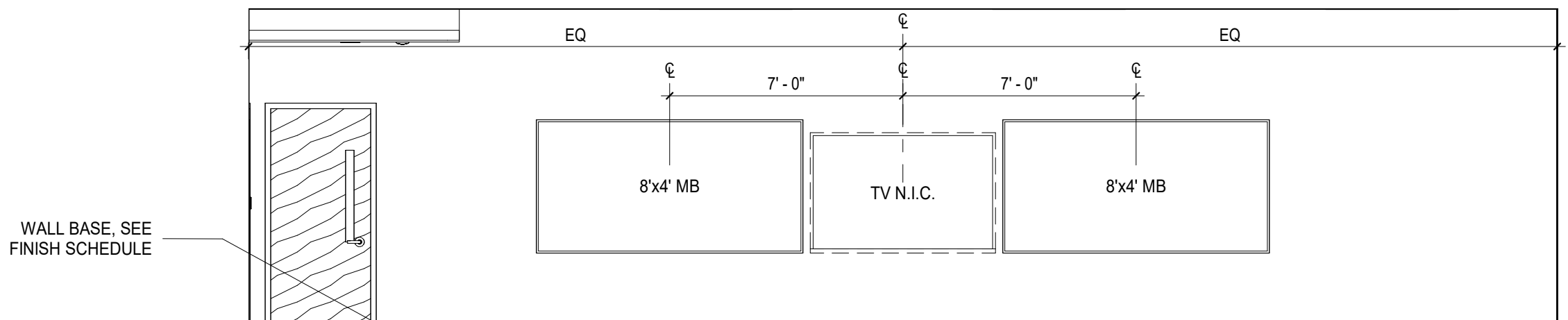
B1B MIDDLE SCHOOL - INTERIOR ELEVATION
1/4" = 1'-0"



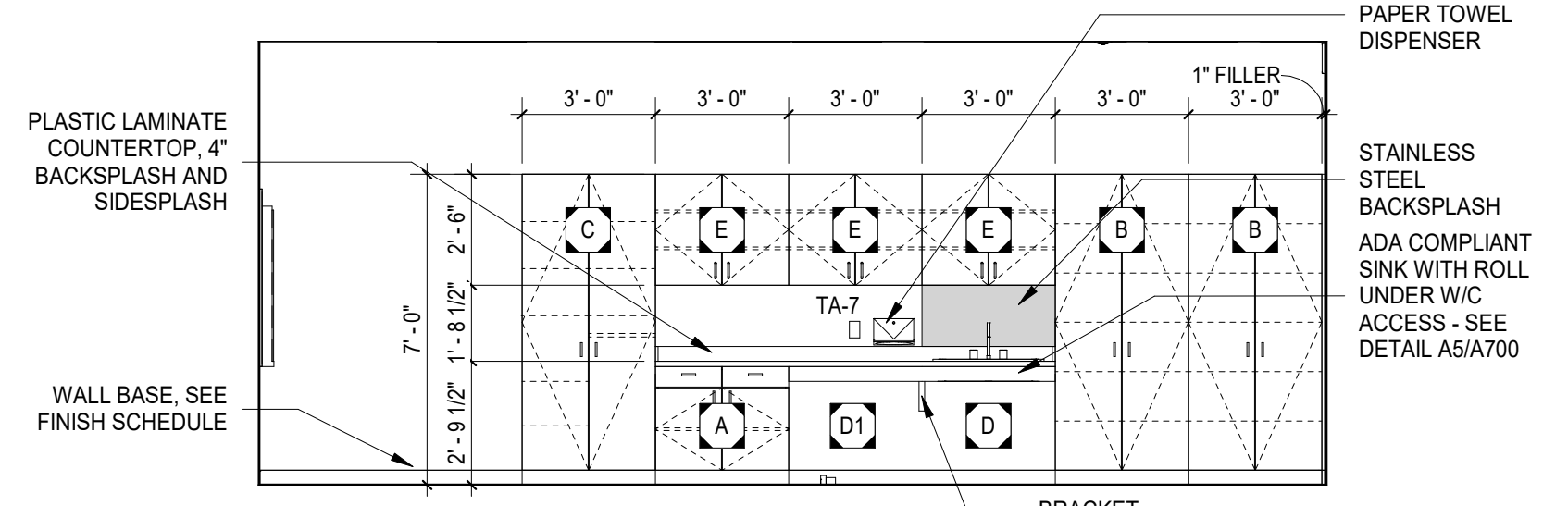
B1C MIDDLE SCHOOL - INTERIOR ELEVATION
1/4" = 1'-0"



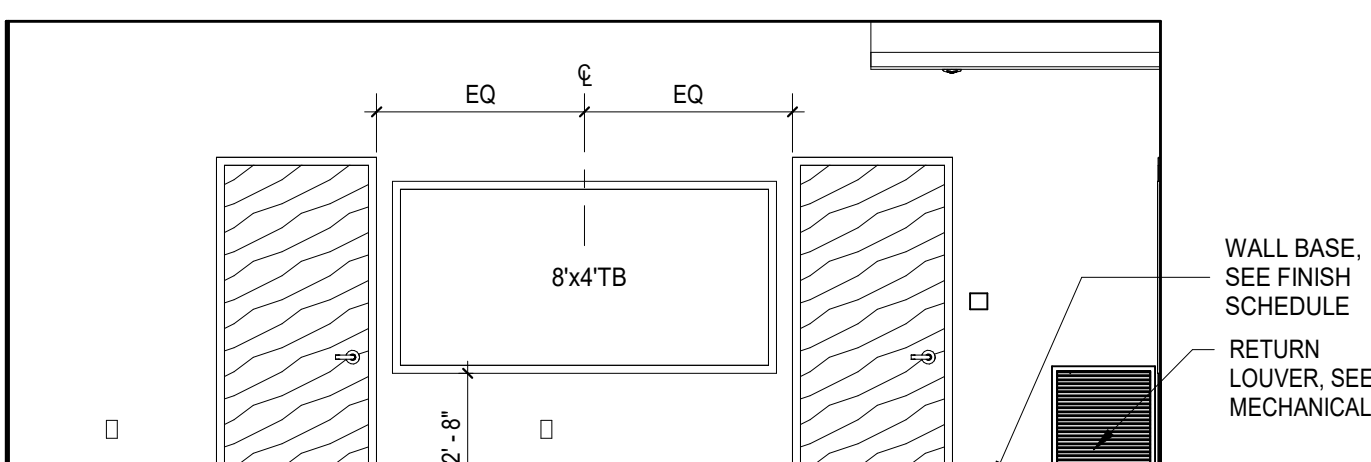
B1D MIDDLE SCHOOL - INTERIOR ELEVATION
1/4" = 1'-0"



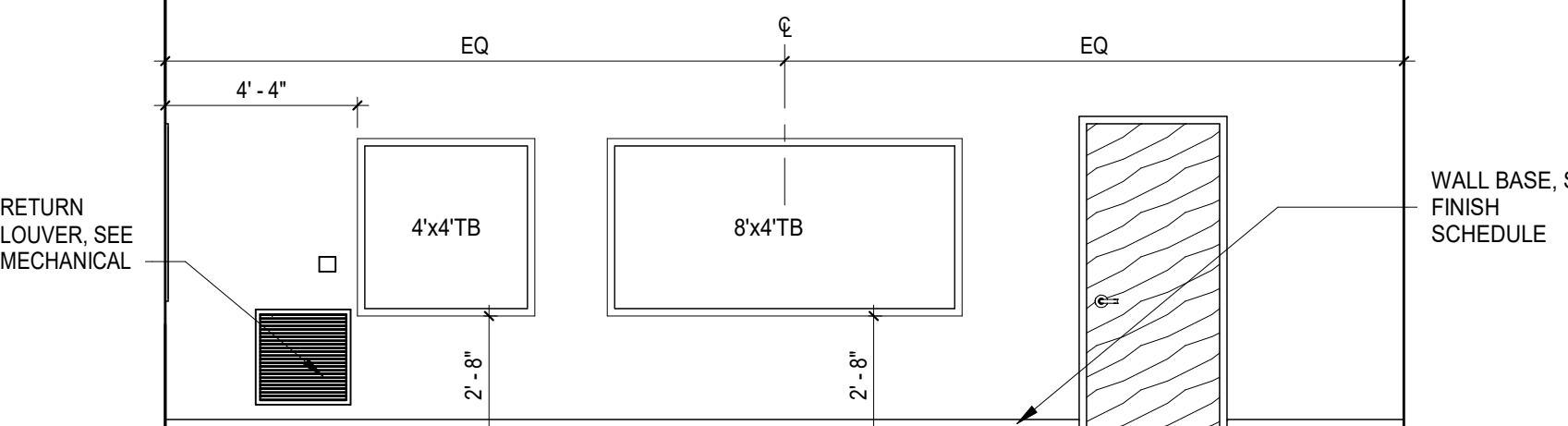
B1E MIDDLE SCHOOL - INTERIOR ELEVATION
1/4" = 1'-0"



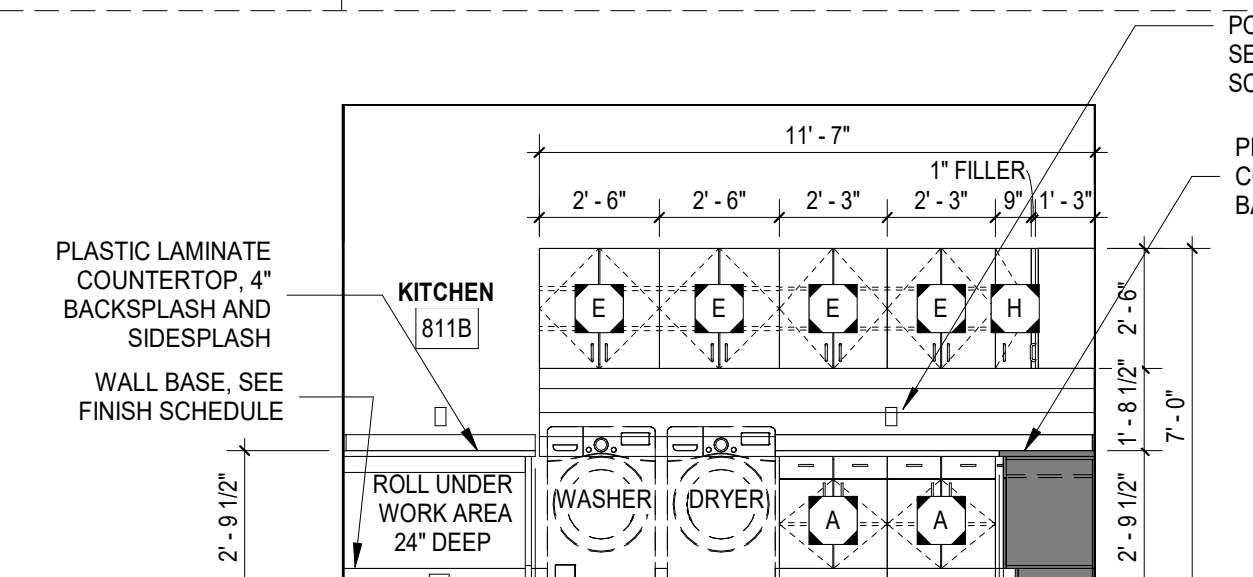
B1F MIDDLE SCHOOL - INTERIOR ELEVATION
1/4" = 1'-0"



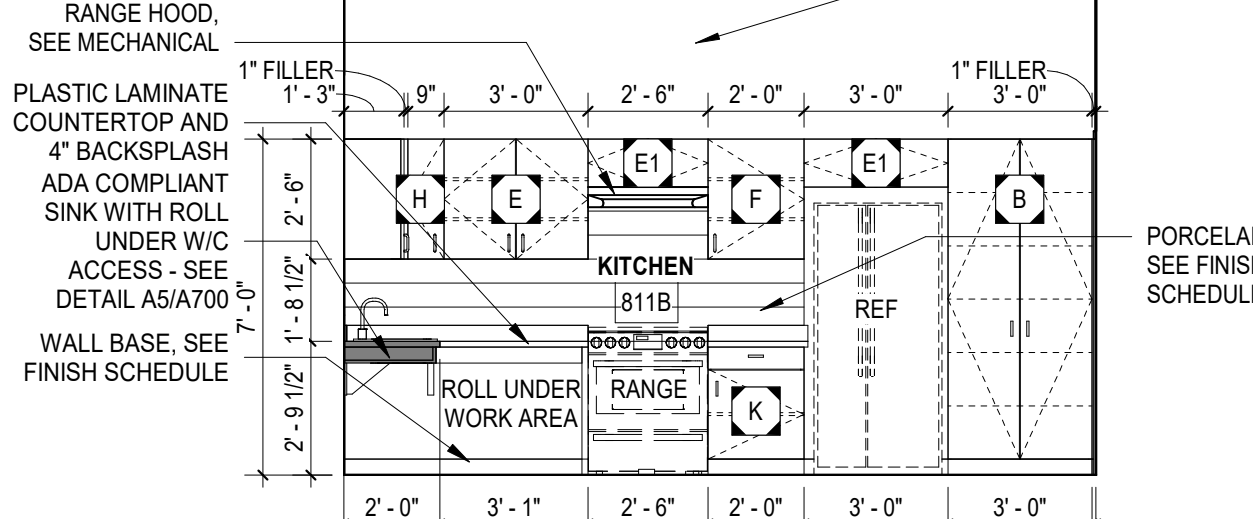
B1G MIDDLE SCHOOL - INTERIOR ELEVATION G
1/4" = 1'-0"



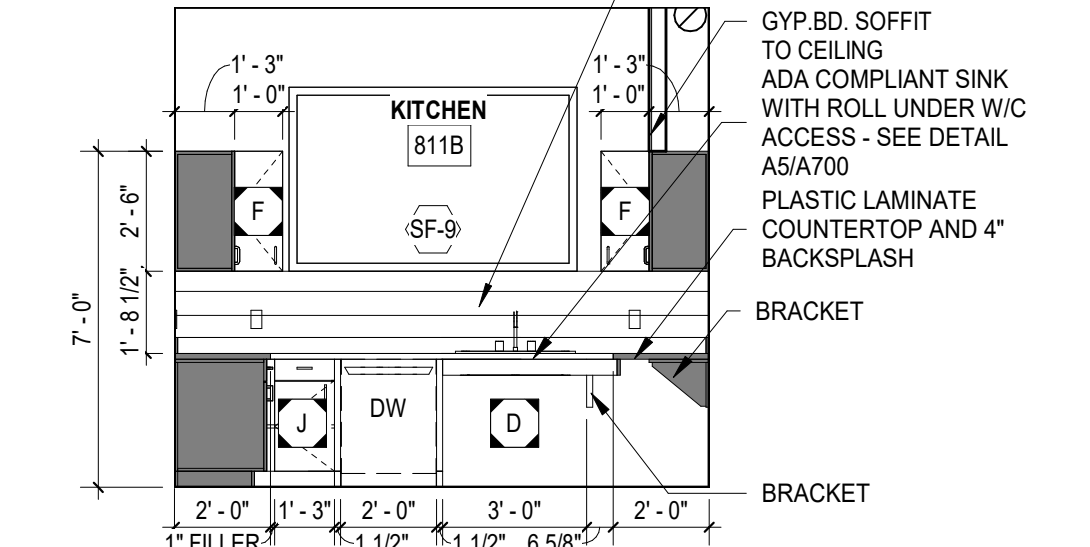
B1H MIDDLE SCHOOL - INTERIOR ELEVATION H
1/4" = 1'-0"



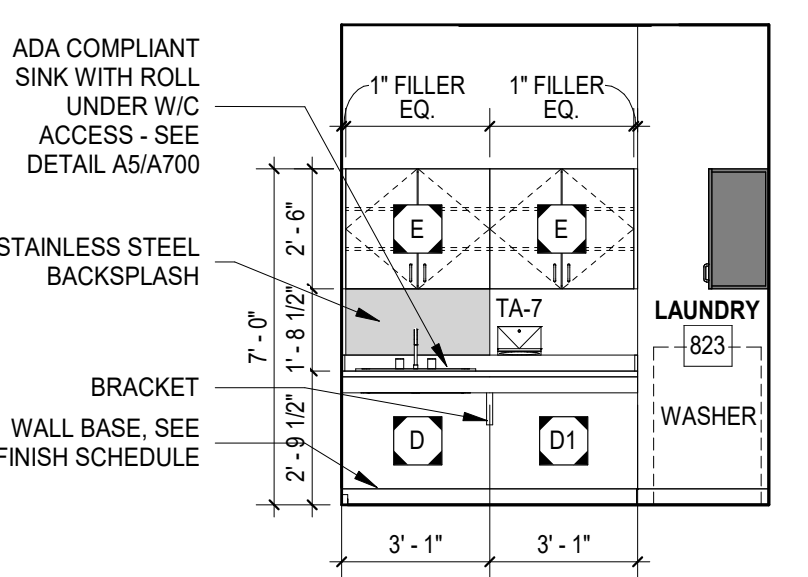
C3A KITCHEN 811B - INTERIOR ELEVATION
1/4" = 1'-0"



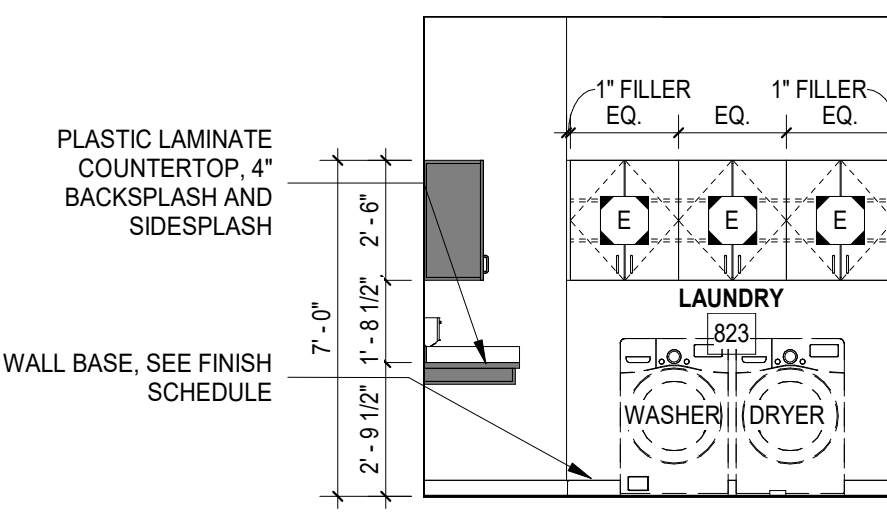
C3B KITCHEN 811B - INTERIOR ELEVATION
1/4" = 1'-0"



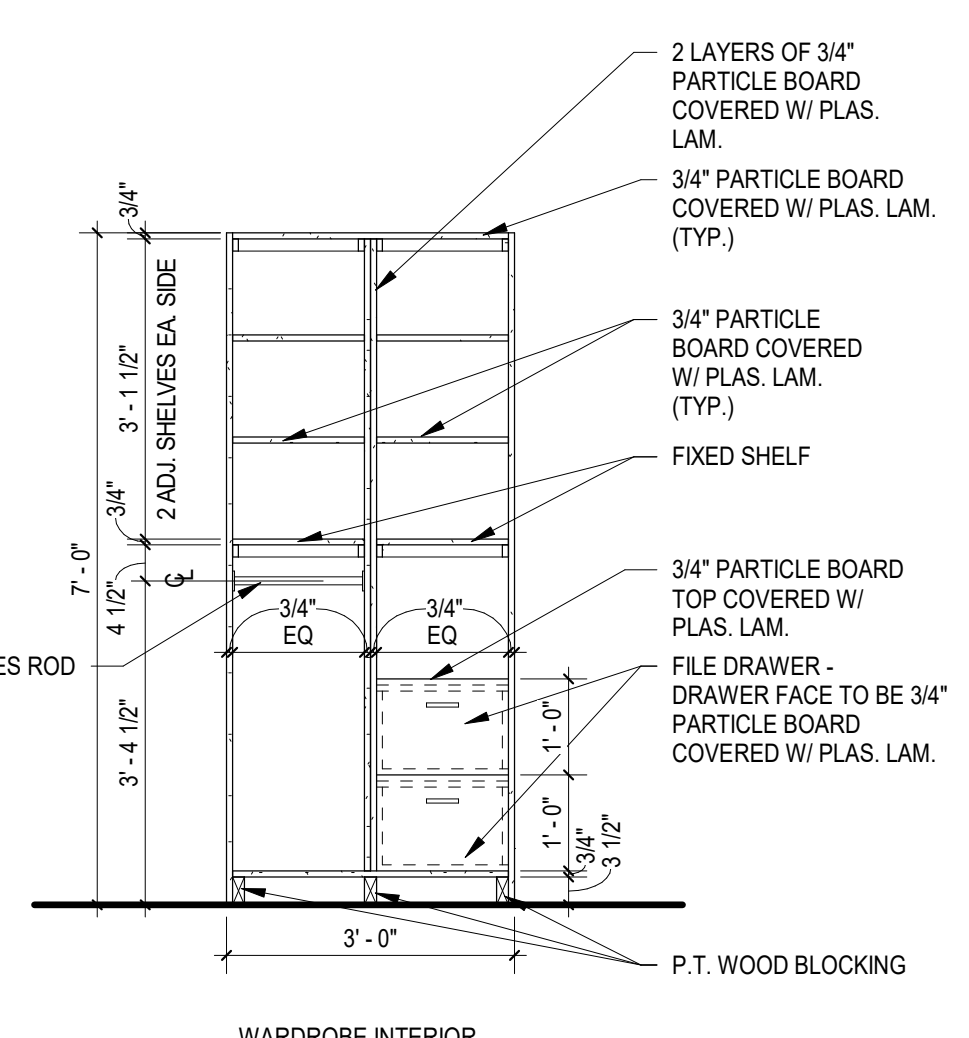
C3C KITCHEN 811B - INTERIOR ELEVATION
1/4" = 1'-0"



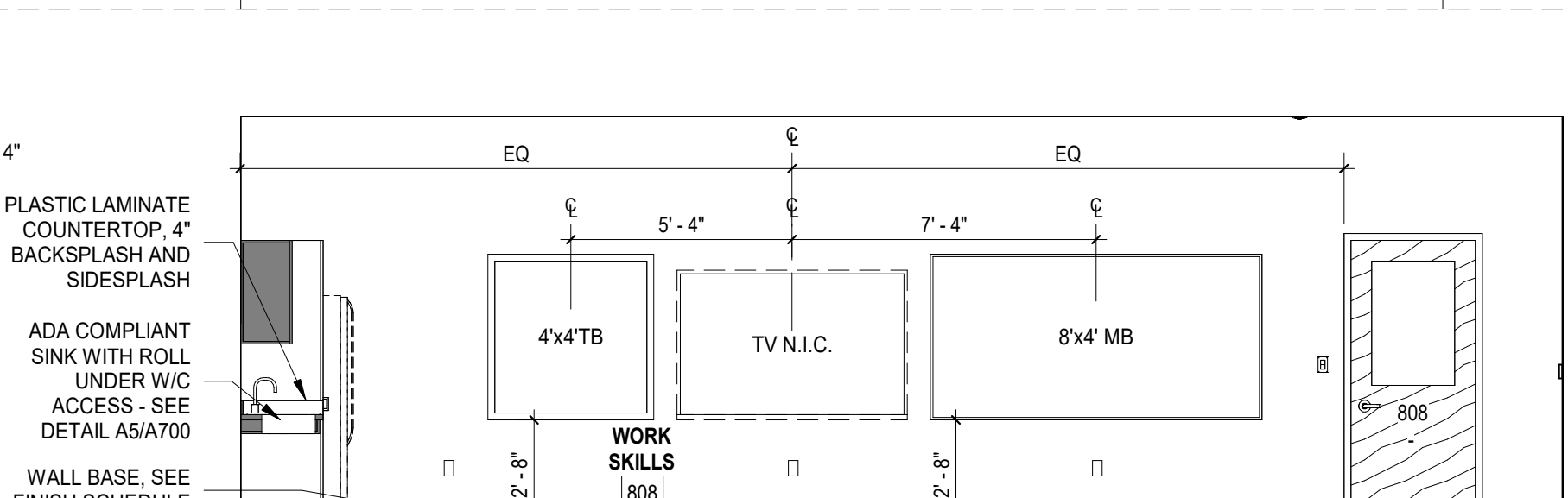
B3A LAUNDRY 823 - INTERIOR ELEVATION
1/4" = 1'-0"



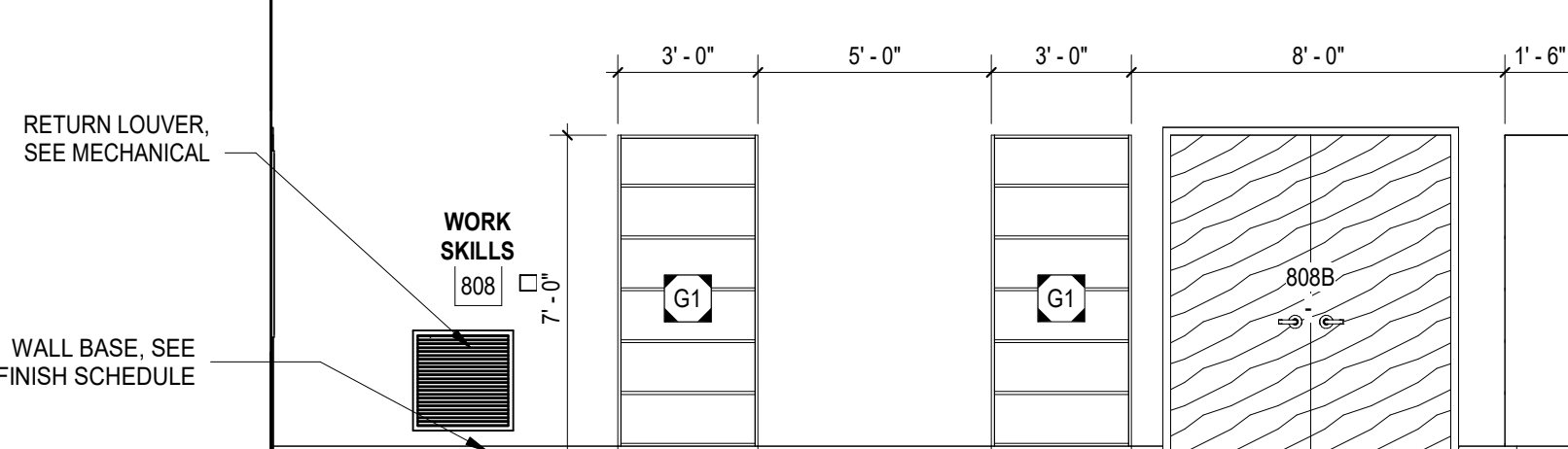
B3B LAUNDRY 823 - INTERIOR ELEVATION
1/4" = 1'-0"



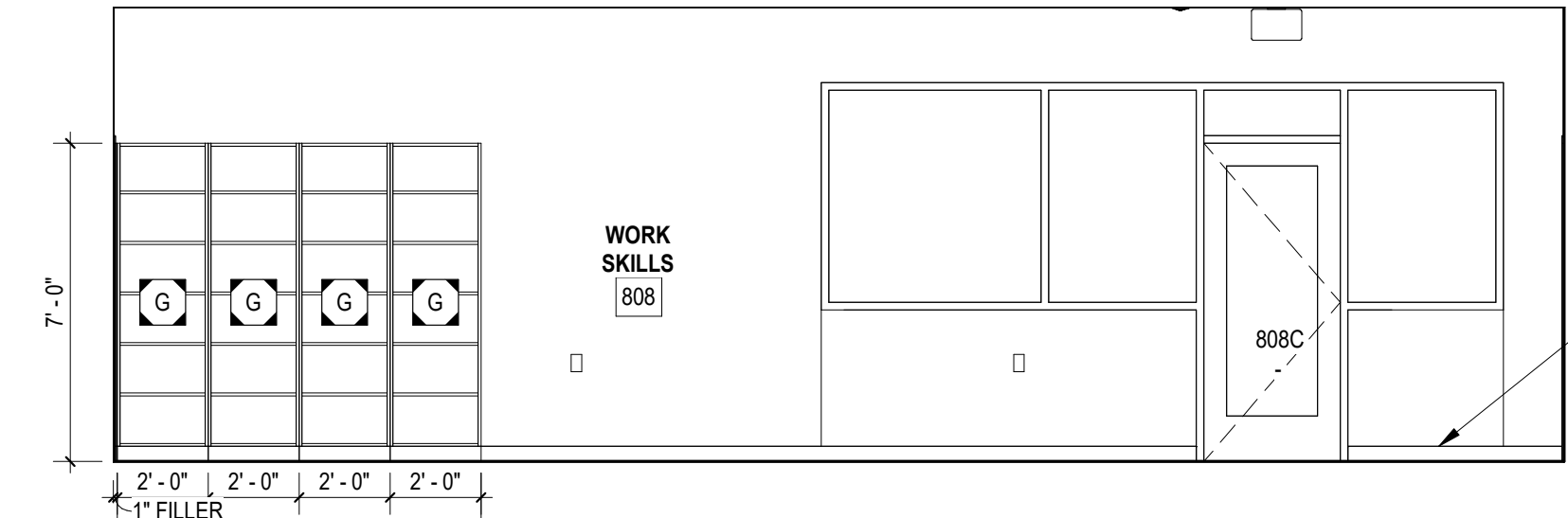
A3 TEACHER WARDROBE CABINET INTERIOR ELEVATION
1/2" = 1'-0"



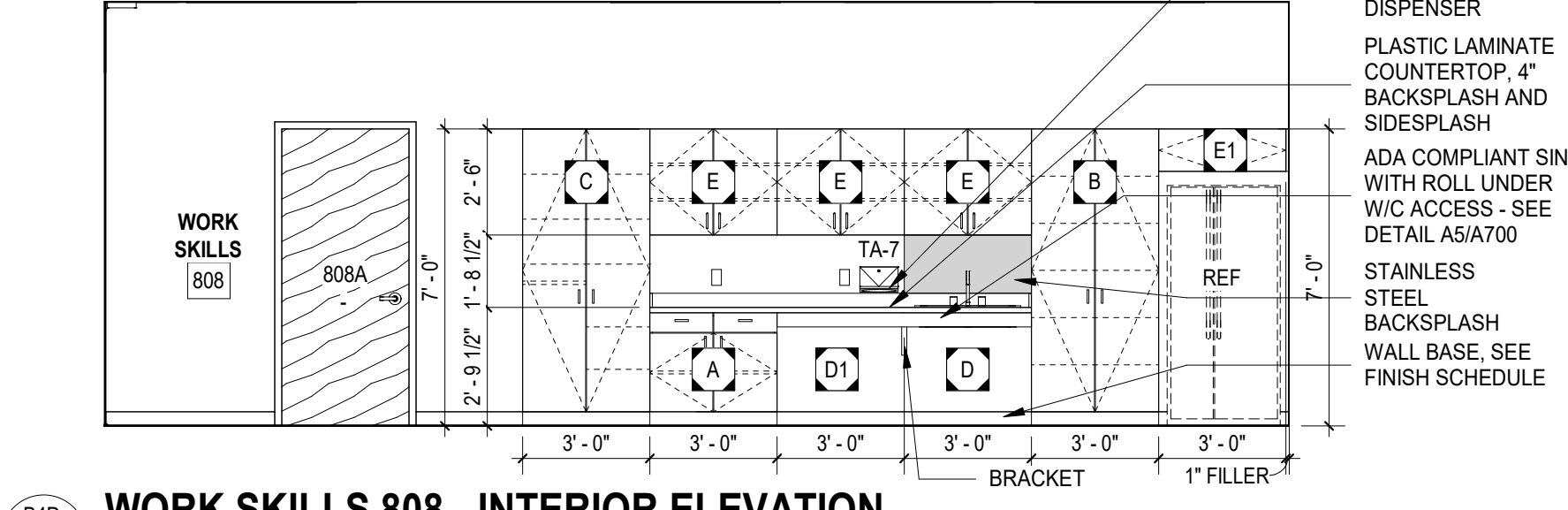
B4A WORK SKILLS 808 - INTERIOR ELEVATION
1/4" = 1'-0"



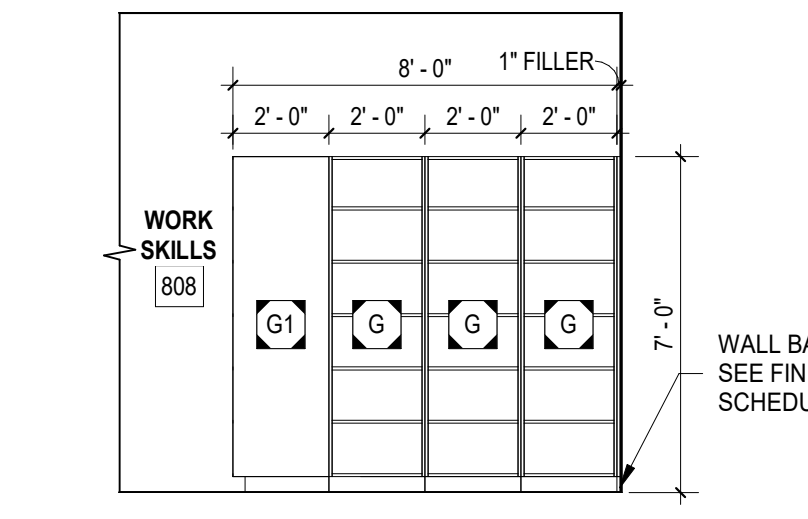
B4B WORK SKILLS 808 - INTERIOR ELEVATION
1/4" = 1'-0"



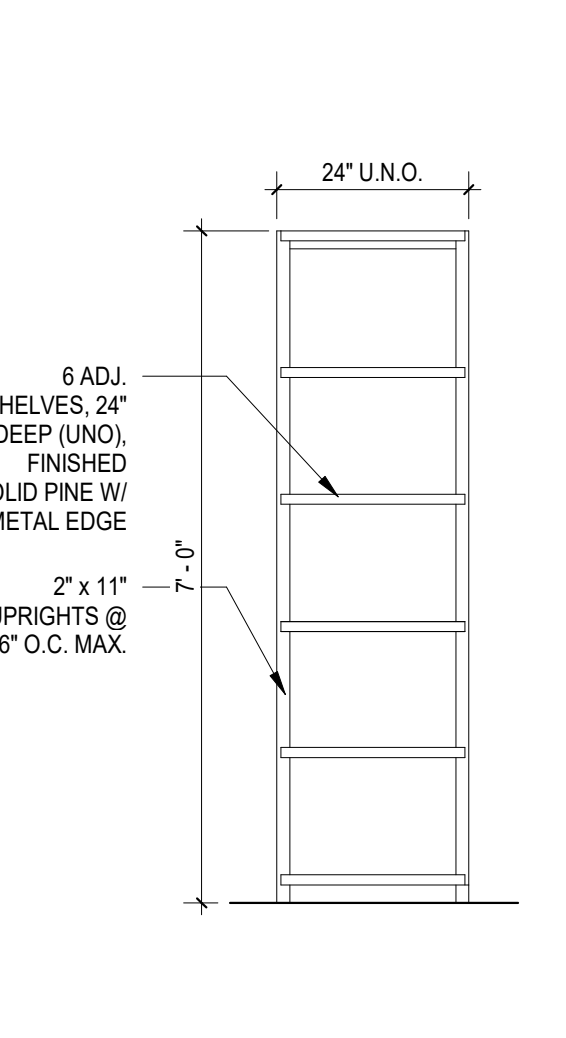
B4C WORK SKILLS 808 - INTERIOR ELEVATION
1/4" = 1'-0"



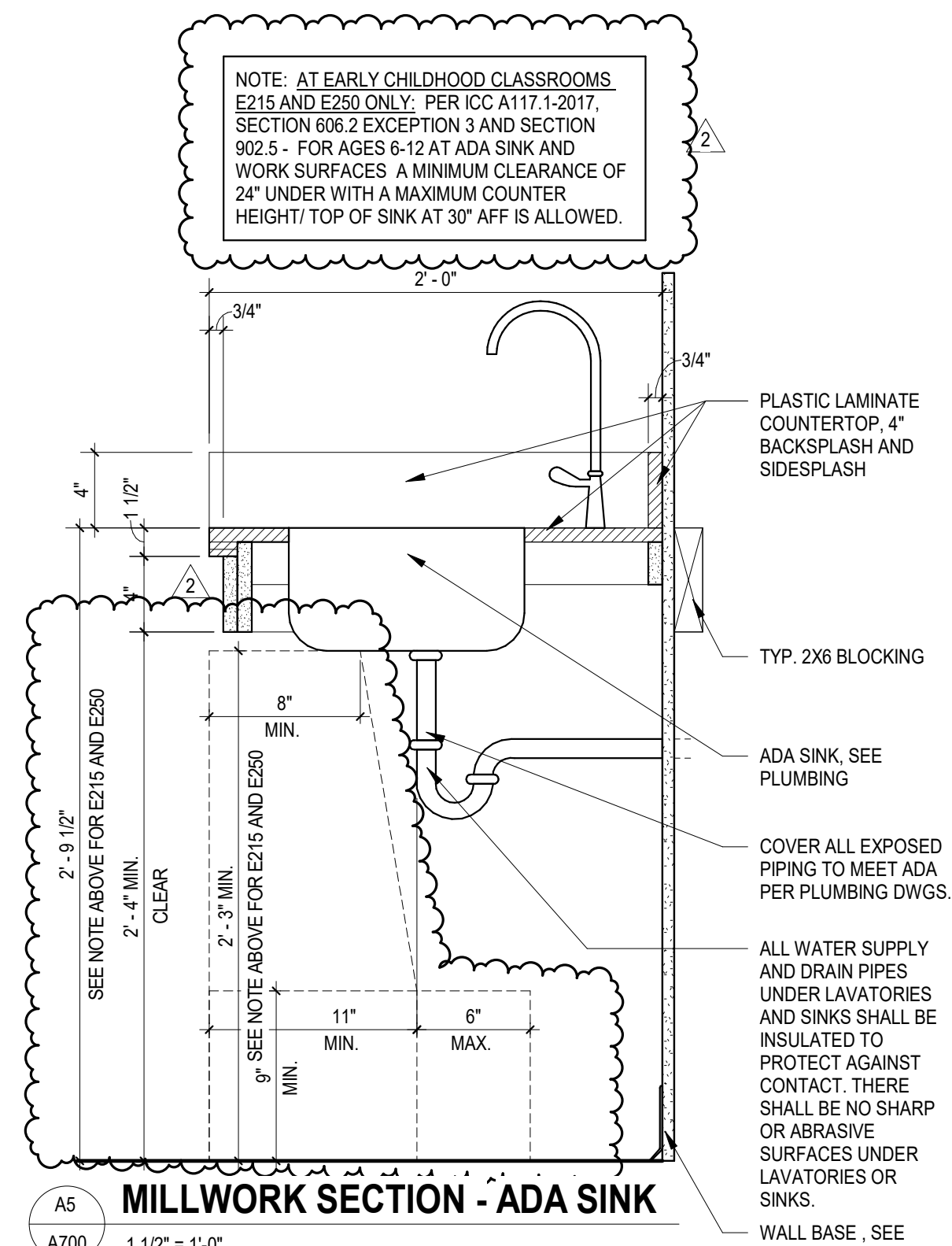
B4D WORK SKILLS 808 - INTERIOR ELEVATION
1/4" = 1'-0"



B4E WORK SKILLS 808 - INTERIOR ELEVATION
1/4" = 1'-0"



A4 'Z' SHELVING DETAIL
1/2" = 1'-0"



A5 MILLWORK SECTION - ADA SINK
1 1/2" = 1'-0"

CASEWORK SCHEDULE

A	BASE CABINET W/ TWO HINGED DOORS, TWO DRAWERS, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
A1	BASE CABINET W/ TWO HINGED DOORS, TWO DRAWERS, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) WITH FINISHED BACK
A2	BASE CABINET W/ TWO HINGED DOORS, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
B	TALL CABINET W/ TWO HINGED DOORS W/ LOCKS, 5 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) (PROVIDE FILLER AT BACK TO MATCH CABINETS AS REQUIRED)
B1	TALL CABINET W/ TWO HINGED DOORS W/ LOCKS, 5 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) (PROVIDE FILLER AT BACK TO MATCH CABINETS AS REQUIRED)
C	TEACHER WARDROBE CABINET; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) (PROVIDE FILLER AT BACK TO MATCH CABINETS AS REQUIRED)
D	BASE SINK CABINET-ADA ACCESSIBLE ROLL UNDER; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
D1	BASE WORKSTATION CABINET-ADA ACCESSIBLE ROLL UNDER; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
D2	BASE WORKSTATION CABINET-ADA ACCESSIBLE ROLL UNDER WITH FINISHED BACK SIDE; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
D3	BASE SINK CABINET-ADA ACCESSIBLE ROLL UNDER; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
E	WALL CABINET W/ TWO HINGED DOORS, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
E1	WALL CABINET W/ TWO HINGED DOORS; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
E2	WALL CABINET W/ TWO HINGED DOORS, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
F	WALL CABINET W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
F1	WALL CABINET W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
G	TALL CABINET 1 FIXED SHELF AND 4 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
G1	TALL CABINET 1 FIXED SHELF AND 4 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
H	WALL CABINET BLIND CORNER W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
J	BASE CABINET BLIND CORNER W/ ONE HINGED DOOR, ONE DRAWER, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
K	BASE CABINET W/ ONE HINGED DOOR, ONE DRAWER, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
K1	BASE CABINET W/ ONE HINGED DOOR, ONE DRAWER, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 30"D x (HEIGHT SHOWN)
L	BASE CABINET W/ SEVEN DRAWERS; (WIDTH SHOWN) x 30"D x (HEIGHT SHOWN)
M	WALL CABINET W/ ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
M1	WALL CABINET W/ ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
N	BASE CABINET W/ THREE DRAWERS; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
N1	BASE CABINET W/ THREE DRAWERS; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
N3	BASE CABINET W/ TWO DRAWERS; (WIDTH SHOWN) x 17"D x (HEIGHT SHOWN)
Q	(WIDTH SHOWN ON ELEVATIONS) x 18"D x (HEIGHT SHOWN ON ELEVATIONS) BOOK SHELF WITH ONE OR TWO ADJUSTABLE SHELVES, BACK INCLUDED

NOTES:
1. FOR APPLIANCES, SEE ALLOWANCES IN PROJECT MANUAL.

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

STATE OF SOUTH CAROLINA
DONALD L. LOVE, JR.
REGISTERED ARCHITECT
100573

STATE OF SOUTH CAROLINA
MCMILLAN PAZDAN SMITH, LLC
REGISTERED ARCHITECTS
100573

SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

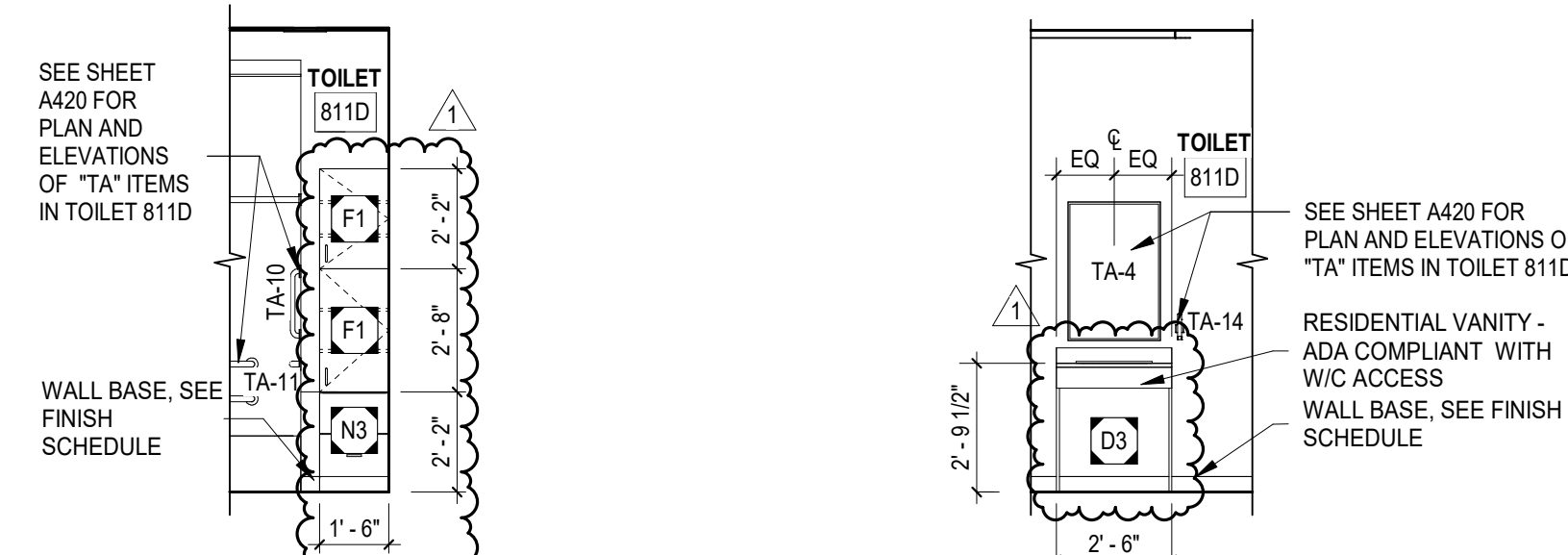
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DL
2	05/12/2021	Addendum No. 2	DL

CONSTRUCTION DOCUMENTS 04/19/2021

PRINCIPAL IN CHARGE: JMO, JSW, DDC
PROJECT ARCHITECT: JMO, JSW, DDC
DRAWN BY: JMO, JSW, DDC

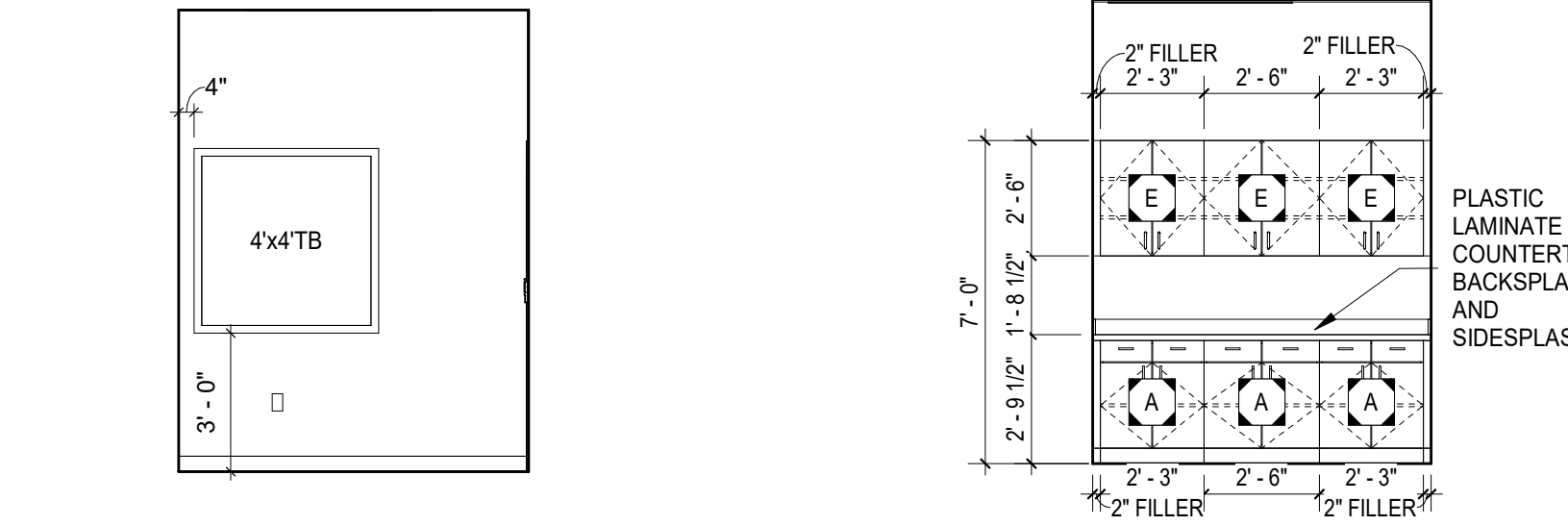
SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO. **A700** PROJ. NO. 020063.00



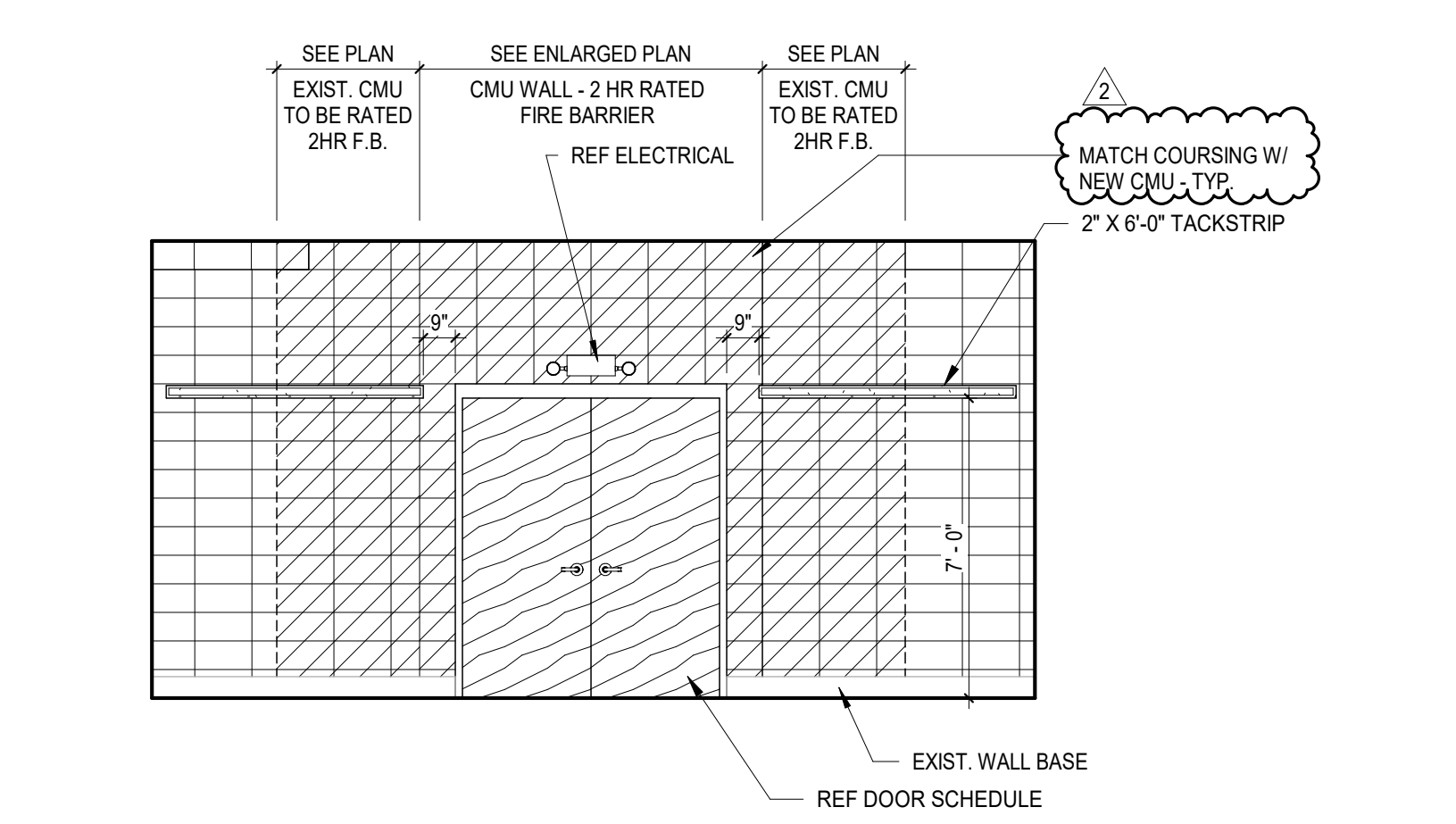
E1 TOILET 811D - INT ELEV B
A703 1/4" = 1'-0"

E2 TOILET 811D - INT ELEV C
A703 1/4" = 1'-0"

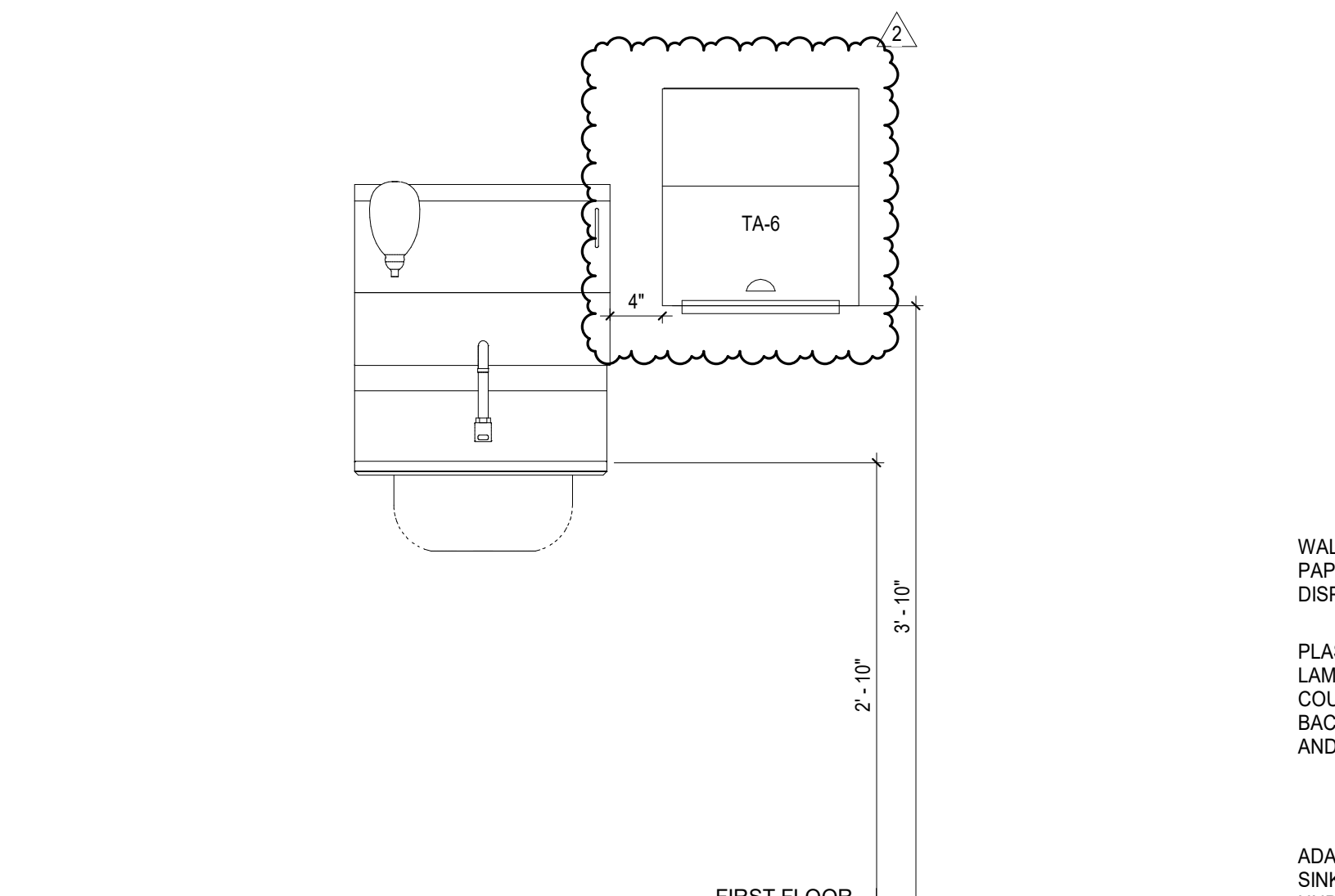


D1 FOOD PREP 809 INT ELEV
A703 1/4" = 1'-0"

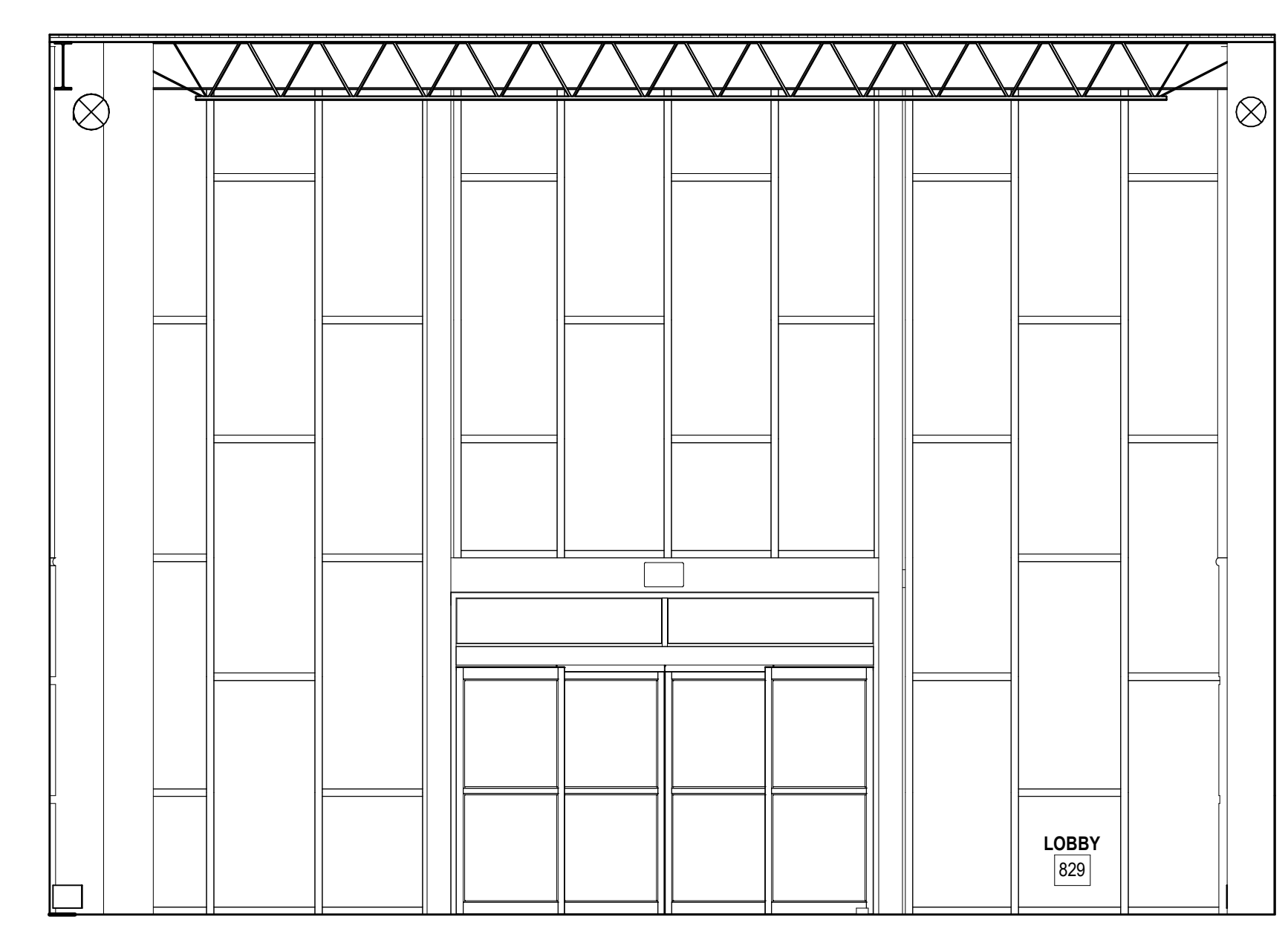
D2 STORAGE E309 - INT ELEV
A703 1/4" = 1'-0"



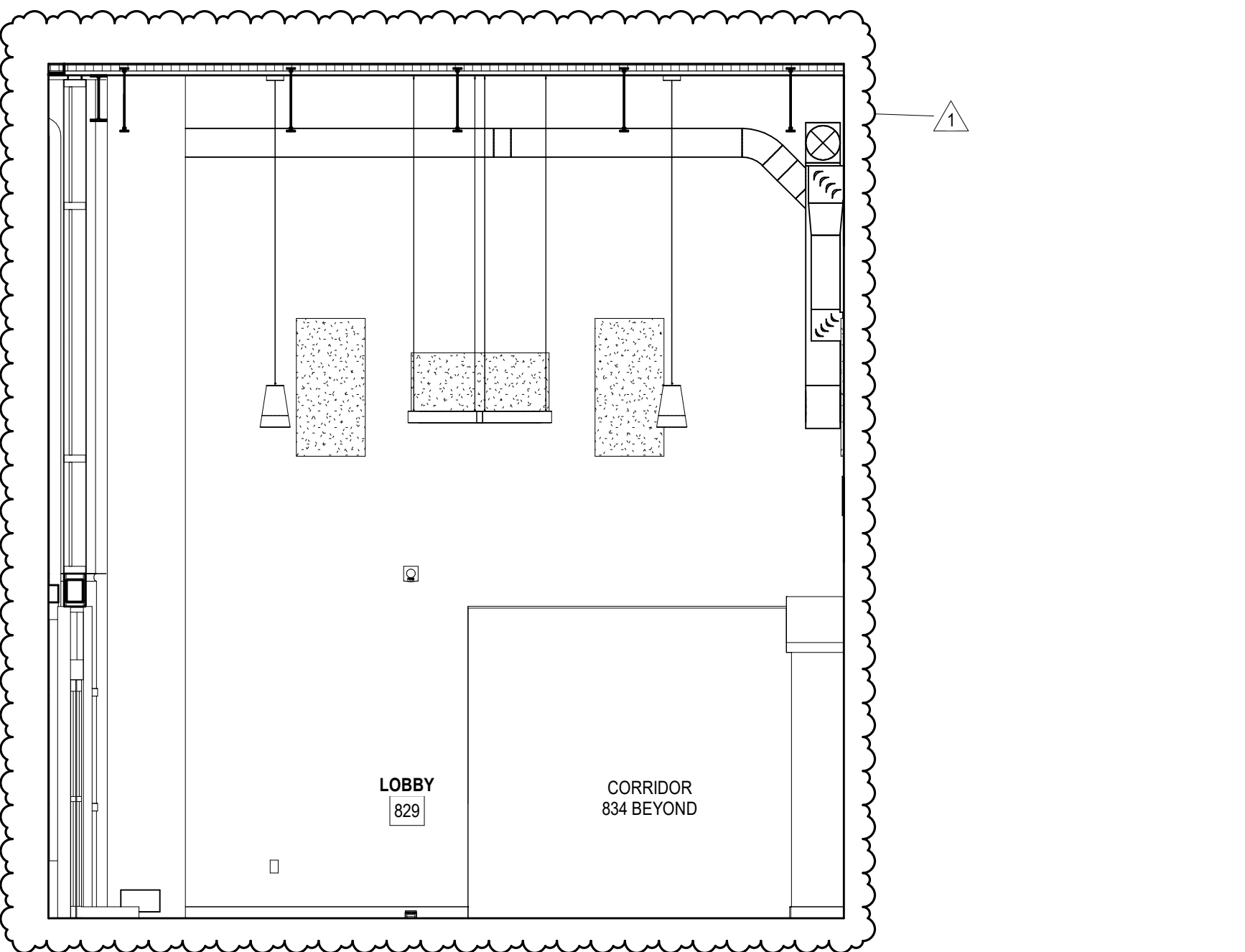
C1 TYP. STORAGE ROOM / CLASSROOM WALL
A703 1/4" = 1'-0"



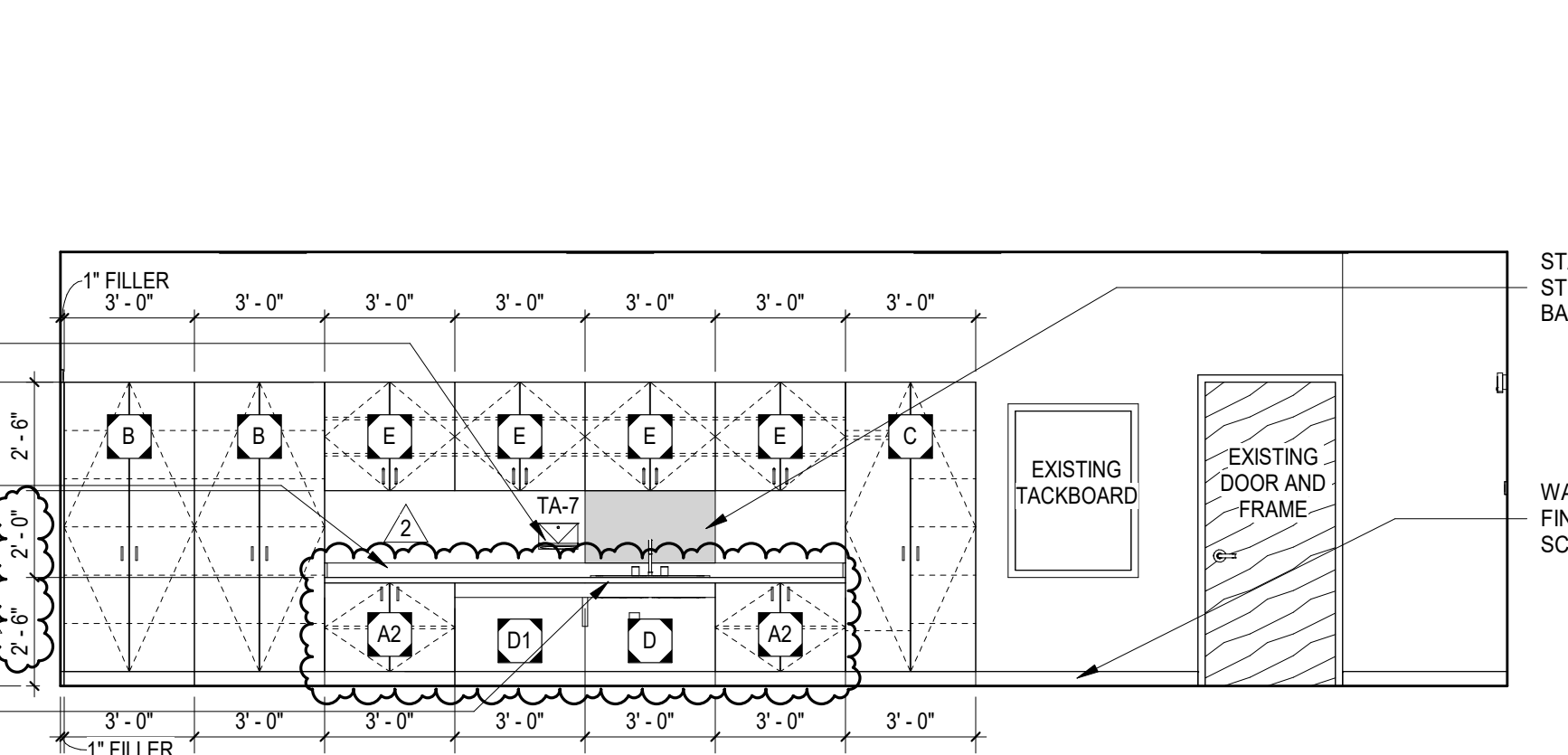
B1 TYP. HAND SINK ELEVATION
A703 1" = 1'-0"



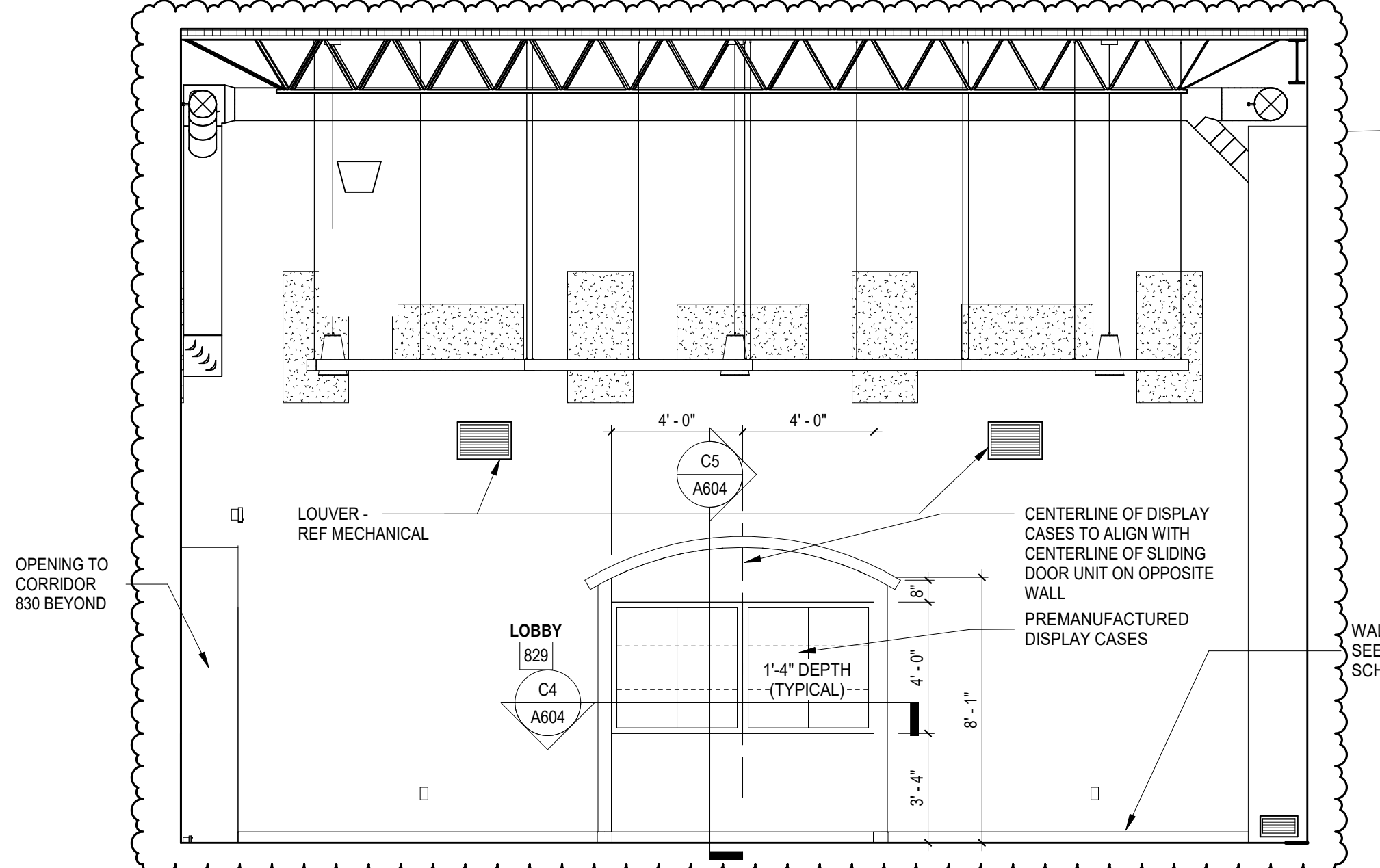
C2A LOBBY 829 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



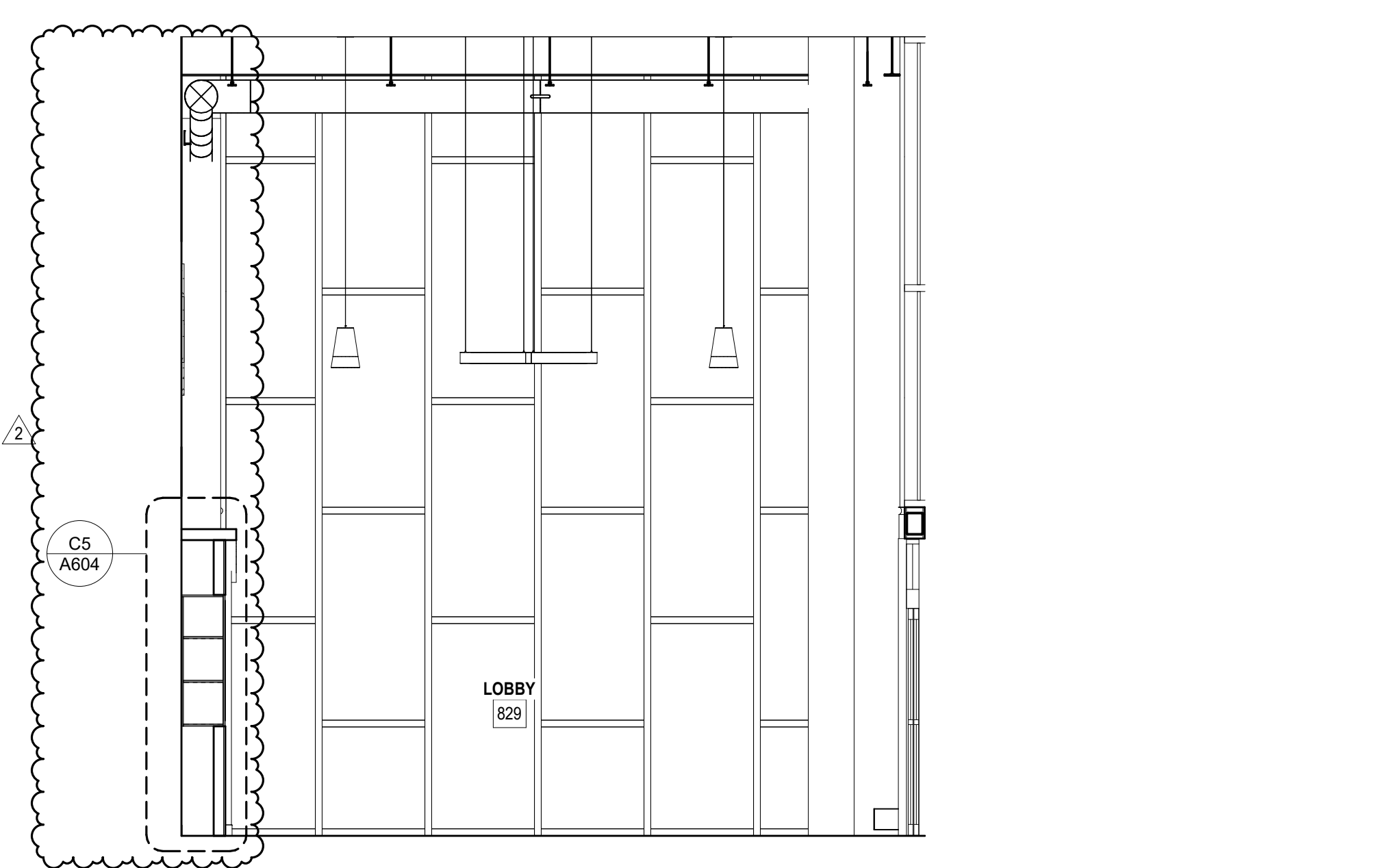
C2B LOBBY 829 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



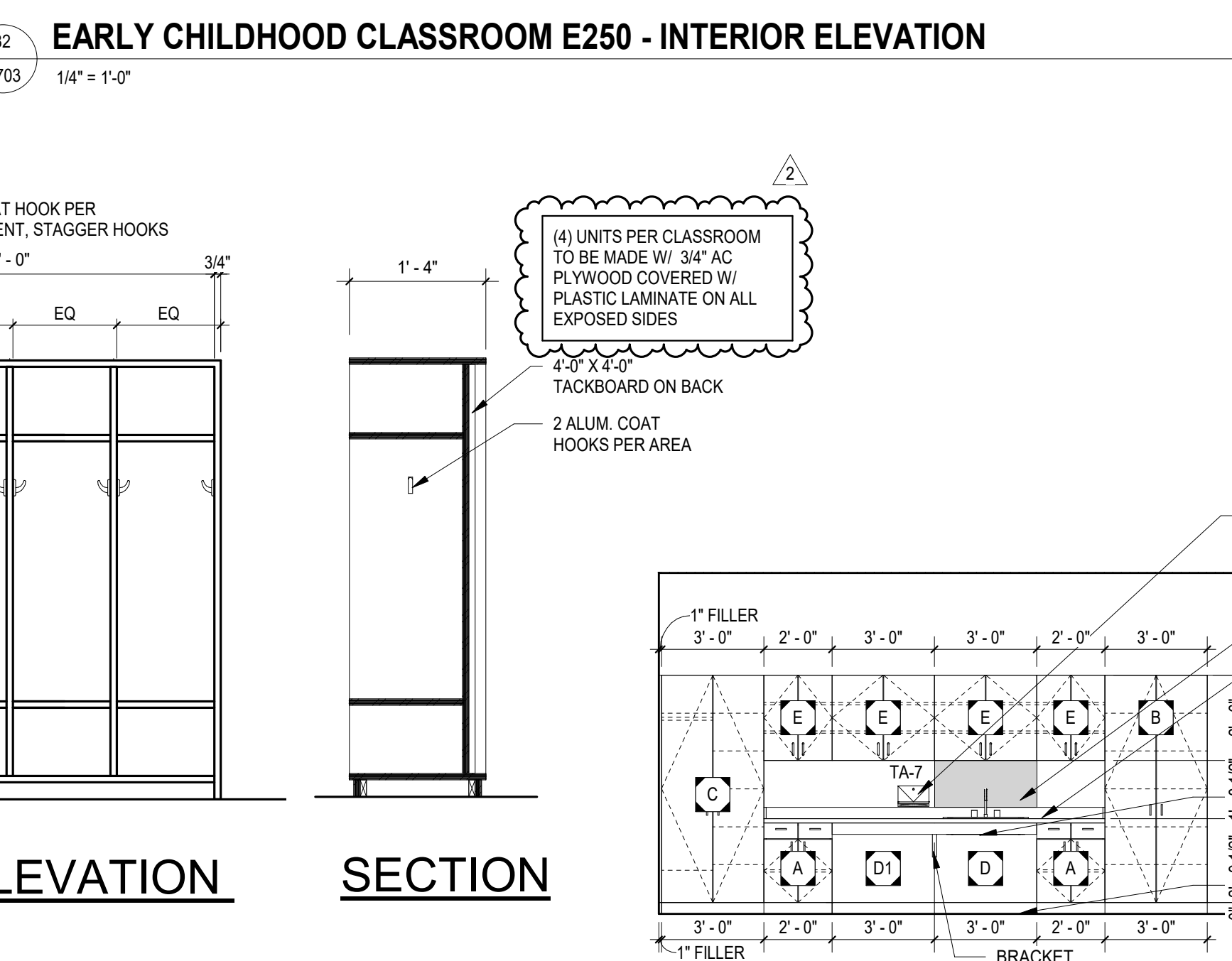
B2 EARLY CHILDHOOD CLASSROOM E250 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



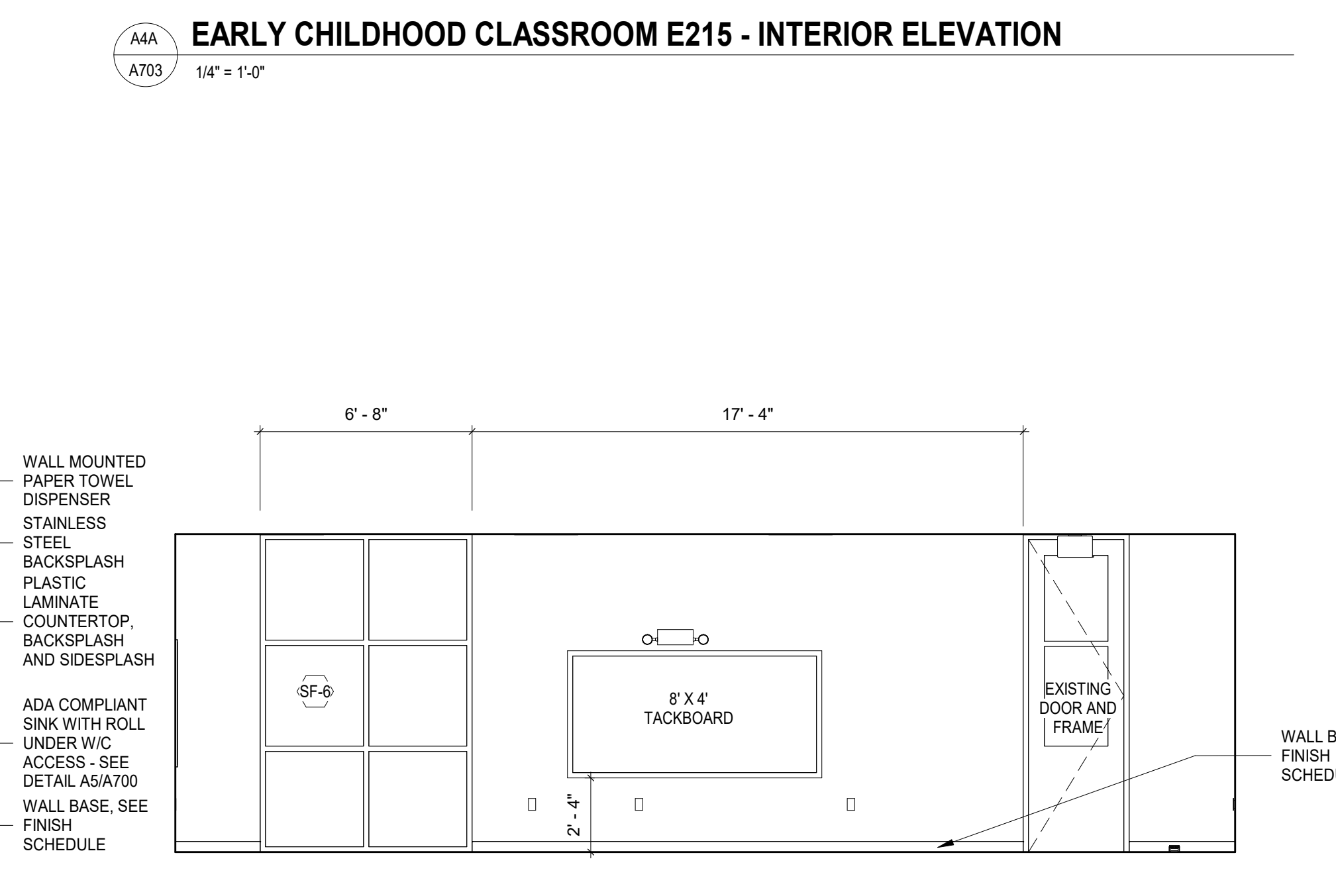
C4A LOBBY 829 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



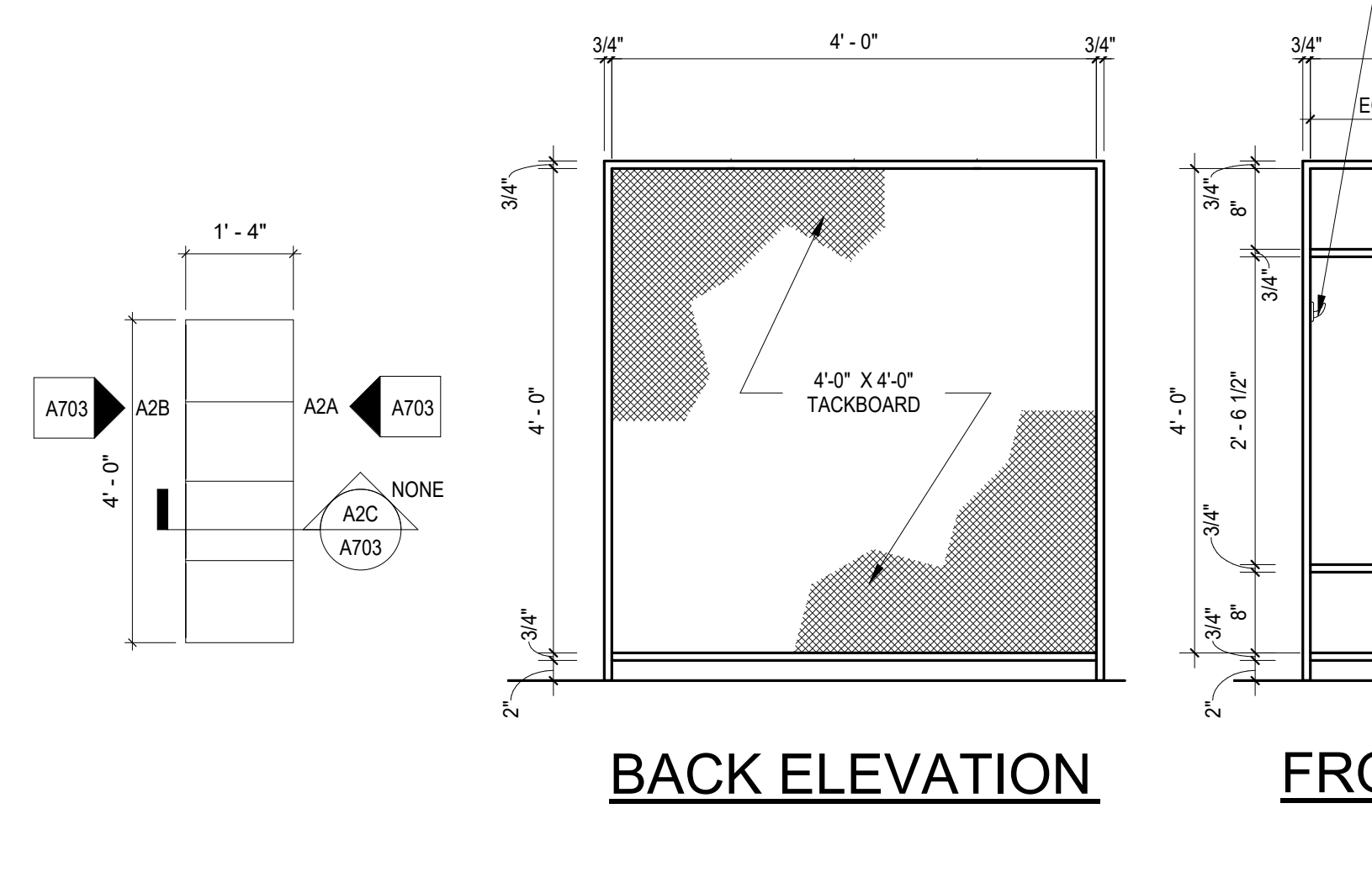
C4B LOBBY 829 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



A4A EARLY CHILDHOOD CLASSROOM E215 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



A4B EARLY CHILDHOOD CLASSROOM E215 - INTERIOR ELEVATION
A703 1/4" = 1'-0"



A1 CUBBY PLAN
A703 1/2" = 1'-0"

A2A CUBBY BACK ELEVATION
A703 3/4" = 1'-0"

A2B CUBBY FRONT ELEVATION
A703 3/4" = 1'-0"

A2C CUBBY SECTION
A703 3/4" = 1'-0"

A3 CLASSROOM 410 - INTERIOR ELEVATION
A703 1/4" = 1'-0"

CASEWORK SCHEDULE

A	BASE CABINET W/ TWO HINGED DOORS, TWO DRAWERS, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
A1	BASE CABINET W/ TWO HINGED DOORS, TWO DRAWERS, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) WITH FINISHED BACK
A2	BASE CABINET W/ TWO HINGED DOORS, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
B	TALL CABINET W/TWO HINGED DOORS W/ LOCKS, 5 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) (PROVIDE FILLER AT BACK TO MATCH CABINETS AS REQUIRED)
B1	TALL CABINET W/TWO HINGED DOORS W/ LOCKS, 5 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 30"D x (HEIGHT SHOWN) (PROVIDE FILLER AT BACK TO MATCH CABINETS AS REQUIRED)
C	TEACHER WARDROBE CABINET, (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN) (PROVIDE FILLER AT BACK TO MATCH CABINETS AS REQUIRED)
D	BASE SINK CABINET-ADA ACCESSIBLE ROLL UNDER; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
D1	BASE WORKSTATION CABINET-ADA ACCESSIBLE ROLL UNDER WITH FINISHED BACK SIDE; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
D2	BASE WORKSTATION CABINET-ADA ACCESSIBLE ROLL UNDER WITH FINISHED BACK SIDE; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
D3	BASE SINK CABINET-ADA ACCESSIBLE ROLL UNDER; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
E	WALL CABINET W/ TWO HINGED DOORS, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
E1	WALL CABINET W/ TWO HINGED DOORS; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
E2	WALL CABINET W/ TWO HINGED DOORS, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
F	WALL CABINET W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
F1	WALL CABINET W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
G	TALL CABINET 1 FIXED SHELF AND 4 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
G1	TALL CABINET 1 FIXED SHELF AND 4 ADJUSTABLE SHELVES; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
H	WALL CABINET BLIND CORNER W/ ONE HINGED DOOR, TWO ADJUSTABLE SHELVES; (WIDTH SHOWN) x 15"D x (HEIGHT SHOWN)
J	BASE CABINET BLIND CORNER W/ ONE HINGED DOOR, ONE DRAWER, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
K	BASE CABINET W/ ONE HINGED DOOR, ONE DRAWER, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
K1	BASE CABINET W/ ONE HINGED DOOR, ONE DRAWER, ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 30"D x (HEIGHT SHOWN)
L	BASE CABINET W/ SEVEN DRAWERS; (WIDTH SHOWN) x 30"D x (HEIGHT SHOWN)
M	WALL CABINET W/ ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
M1	WALL CABINET W/ ONE ADJUSTABLE SHELF; (WIDTH SHOWN) x 18"D x (HEIGHT SHOWN)
N	BASE CABINET W/ THREE DRAWERS; (WIDTH SHOWN) x 30"D x (HEIGHT SHOWN)
N1	BASE CABINET W/ THREE DRAWERS; (WIDTH SHOWN) x 24"D x (HEIGHT SHOWN)
N3	BASE CABINET W/ TWO DRAWERS; (WIDTH SHOWN) x 17"D x (HEIGHT SHOWN)
Q	(WIDTH SHOWN ON ELEVATIONS) x 18"D x (HEIGHT SHOWN ON ELEVATIONS) BOOK SHELF WITH ONE OR TWO ADJUSTABLE SHELVES, BACK INCLUDED

NOTES:
1. FOR APPLIANCES, SEE ALLOWANCES IN PROJECT MANUAL.

mcmillan pazdan smith ARCHITECTURE

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS

STATE OF SOUTH CAROLINA
REGISTERED ARCHITECTS

SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	DL
2	05/12/2021	Addendum No. 2	DL

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: JMO, JSW, DDC
PROJECT ARCHITECT: JMO, JSW, DDC
DRAWN BY: JMO, JSW, DDC

SHEET TITLE:
INTERIOR ELEVATIONS

SHEET NO. **A703** PROJ. NO. 020603.00

DOOR AND FRAME NOTES

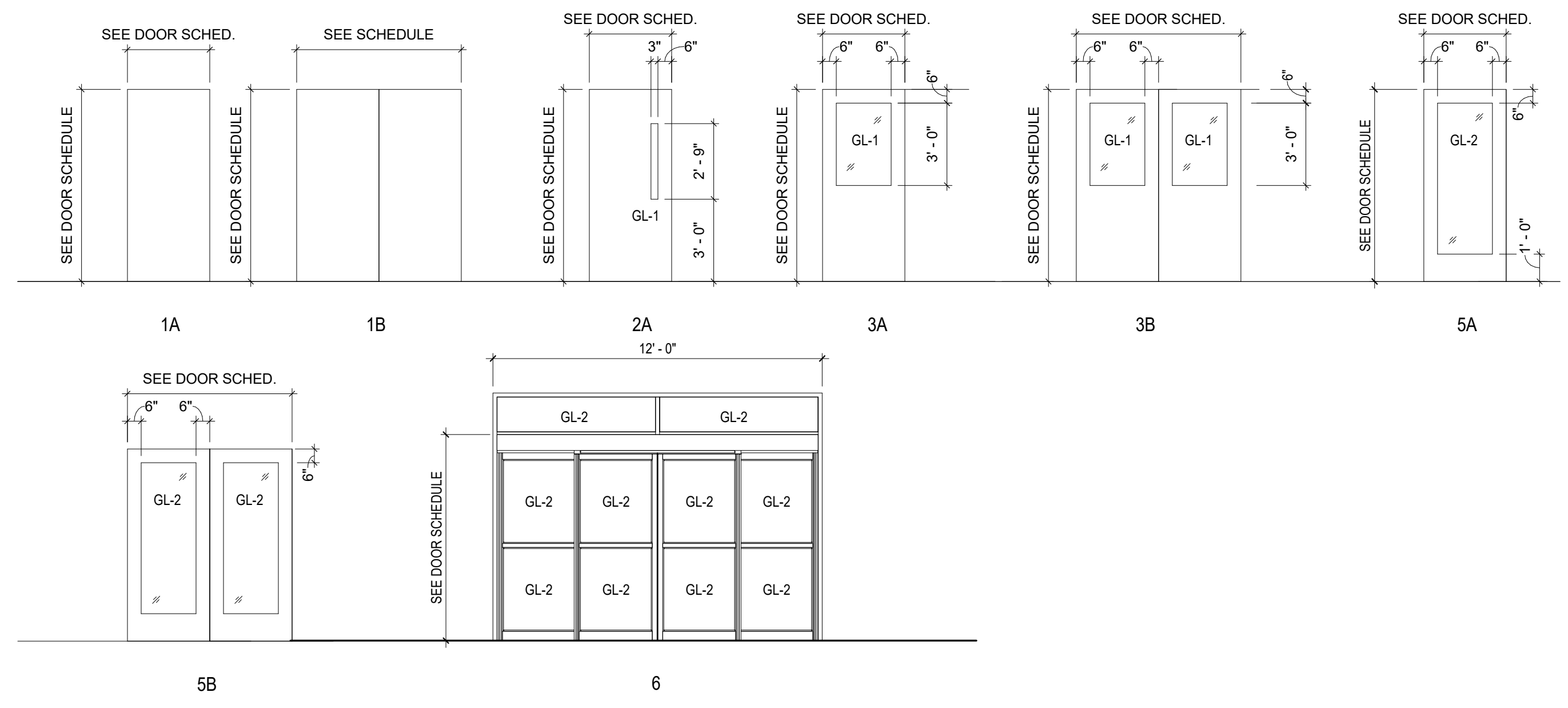
- INTERIOR HM FRAMES SHALL BE 16 GA. SHOP PRIMED STEEL.
- EXTERIOR HM FRAMES SHALL BE 14 GA. GALVANIZED SHOP PRIMED STEEL.
- ALL CORNERS OF EXTERIOR HM FRAMES SHALL BE SHOP (FULL) WELDED AND GROUND SMOOTH.
- FLOOR ANCHORS ARE REQUIRED AT EACH HM FRAME.
- THRESHOLDS SHALL BE 1/2" MAXIMUM HEIGHT.
- HEAD ANCHORS: TWO ANCHORS PER HEAD FOR FRAMES MORE THAN 42 INCHES (1067 MM) WIDE AND MOUNTED IN METAL-STUD PARTITIONS.
- HARDWARE PREPARATION: FACTORY PREPARE HOLLOW METAL WORK TO RECEIVE TEMPLATED MORTISED HARDWARE, INCLUDING CUTOUTS, REINFORCEMENT, MORTISING, DRILLING, AND TAPPING ACCORDING TO SDAI A250.6, THE DOOR HARDWARE SCHEDULE, AND TEMPLATES.
- MULLIONS AND TRANSOM BARS: JOIN TO ADJACENT MEMBERS BY WELDING.
- ALL DOORS SHALL BE INSTALLED WITH MINIMUM CLEARANCES AS SHOWN ON SHEET A01 U.N.G.



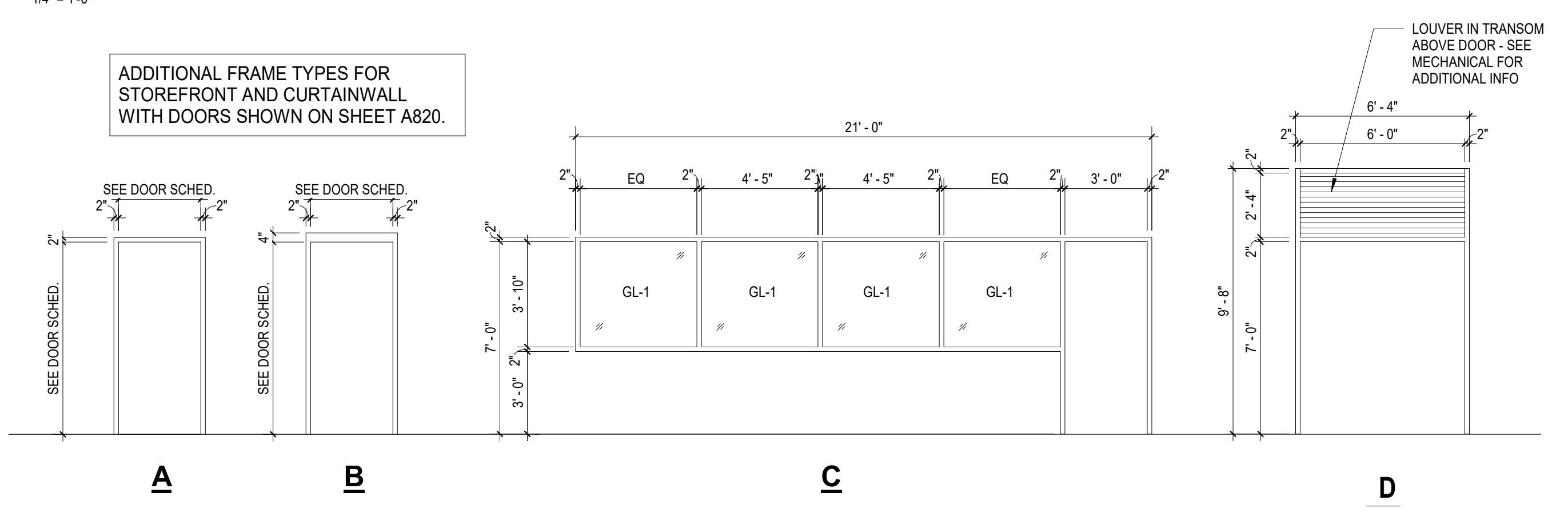
CONSULTANT LOGO



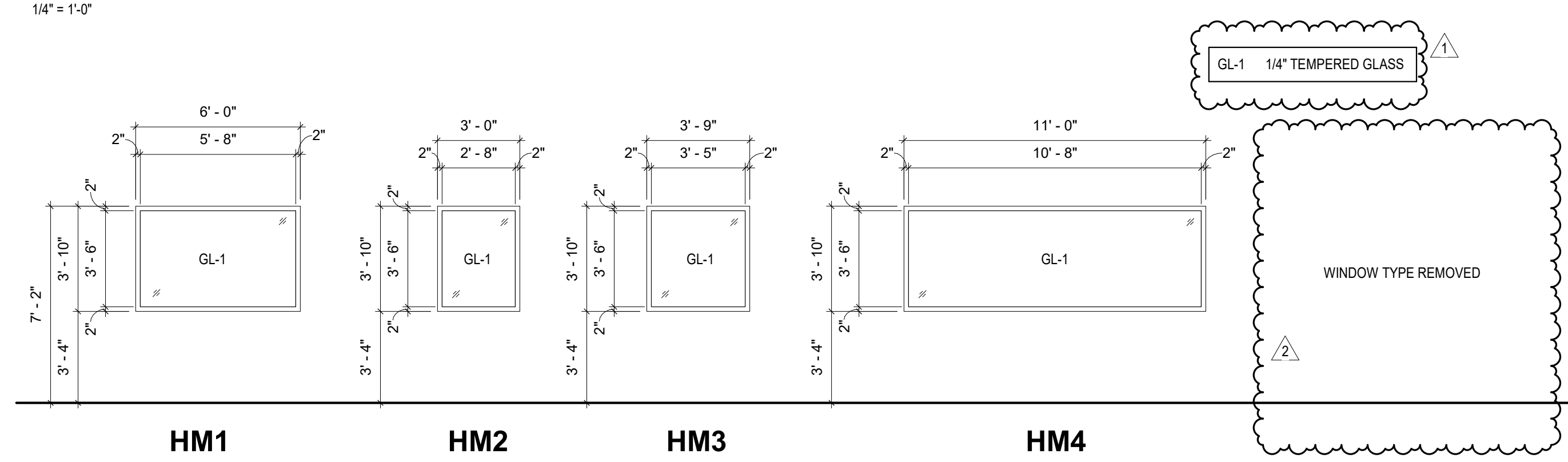
EXTERIOR GLAZING SCHEDULE	
MARK	COMMENTS
GL-2	
GL-3A	1" INSULATED, TEMPERED - COLOR 1
GL-3B	1" INSULATED, TEMPERED - COLOR 2
GL-3C	1" INSULATED, TEMPERED - COLOR 3
GL-3D	1" INSULATED, TEMPERED - COLOR 4



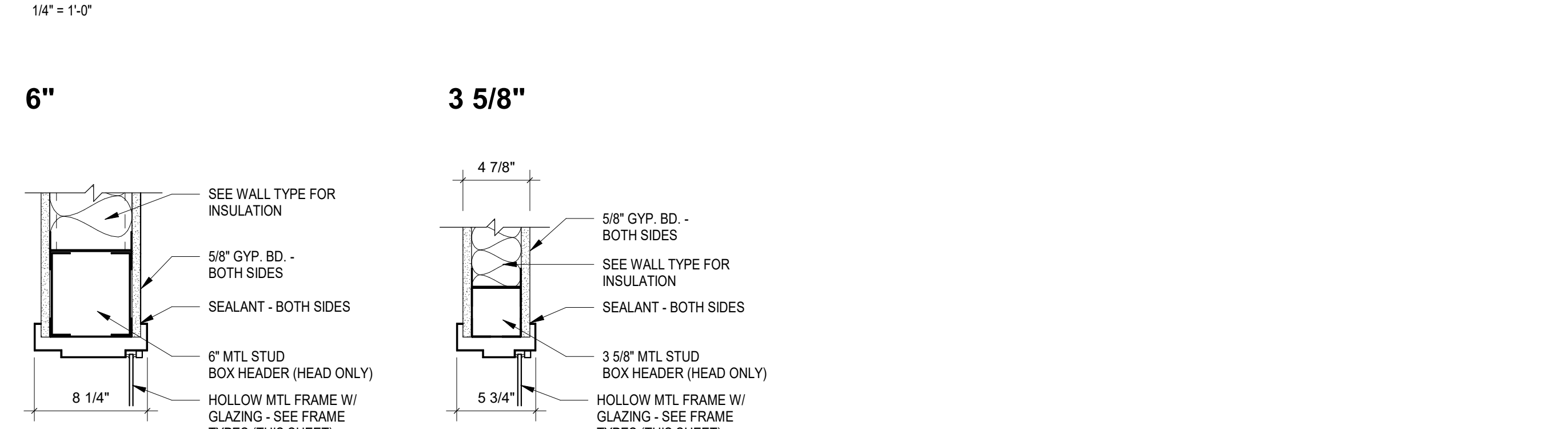
DOOR TYPES



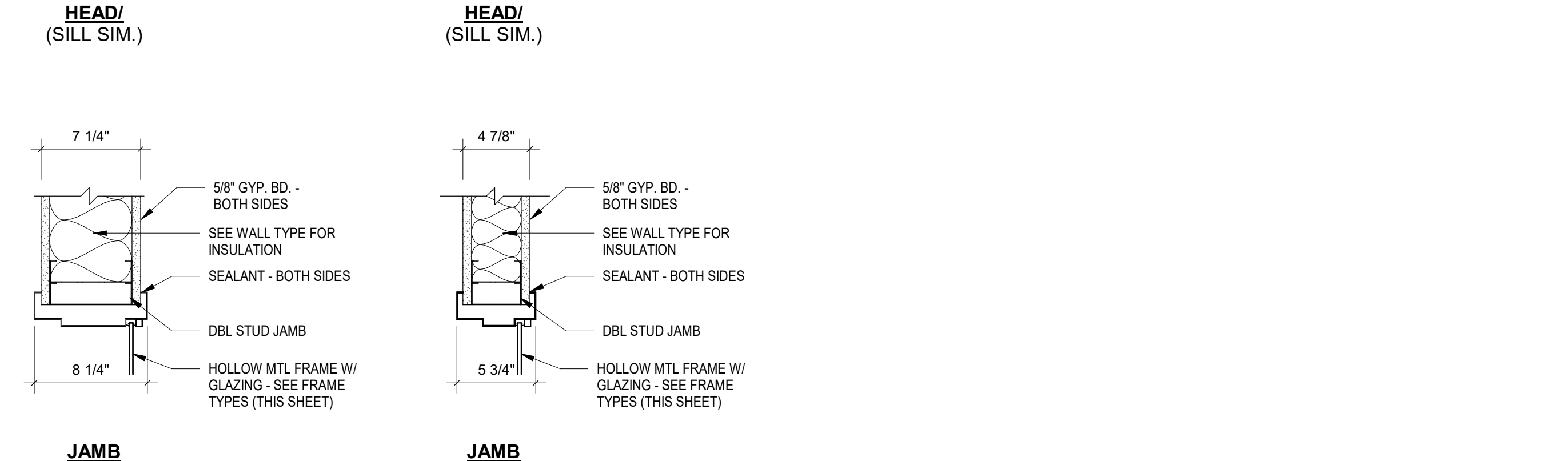
HOLLOW METAL WINDOW TYPES



HOLLOW METAL WINDOW FRAMES



TYP. HOLLOW METAL WINDOW DETAILS



DOOR SCHEDULE - NEW ADDITION

DOOR NO.	DOOR			FRAME			DETAILS			REMARKS		
	WIDTH	HEIGHT	THK.	TYPE	RATING	MAT'L	TYPE	MAT'L	HEAD		JAMB	SILL
408	3'-0"	7'-0"	1 3/4"	2A	20 MIN	WD	A	HM	H1	J1	-	
408A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
408B	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
408C	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-15	ALUM	H4A / A821	J4	S7	
409	3'-0"	7'-0"	1 3/4"	2A	-	WD	A	HM	H1	J1	-	
409A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
409B	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
409C	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-15	ALUM	H4A / A821	J4	S7	
800	6'-0"	7'-0"	1 3/4"	3B	-	WD	A	HM	H1	J1	-	
800A	6'-0"	7'-0"	1 3/4"	1B	-	WD	A	HM	H3	J3	S1	
800B	3'-0"	7'-0"	1 3/4"	1A	-	ALUM	SF-12	ALUM	H1 / A821	J7	S11	
801	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	S5	
801A	6'-0"	7'-0"	1 3/4"	1B	60 MIN	WD	A	HM	H3	J3	-	
801B	6'-0"	7'-0"	1 3/4"	1B	-	WD	A	HM	H3	J3	-	
801C	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H1	J1	S4	
801D	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H7	J1 / A821	S7	
802	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	-	
802A	6'-0"	7'-0"	1 3/4"	1B	-	WD	A	HM	H3	J3	-	
802B	6'-0"	7'-0"	1 3/4"	1B	-	WD	A	HM	H3	J3	-	
802C	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
802D	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H1	J1	-	
802E	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17 OP HD	ALUM	H2 / A821	J1 / A821	S7	
803	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
803A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
803B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17 OP HD	ALUM	H2 / A821	J1 / A821	S7	
804	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	S5	
804A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S6	
804B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S9	
805	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
805A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
805B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S7	
806	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
806A	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S2	
806B	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S5	
806C	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S5	
806D	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S5	
807	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
807A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
807B	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
807C	6'-0"	7'-0"	1 3/4"	1B	-	WD	A	HM	H1	J1	-	
807D	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S7	
808	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
808A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
808B	6'-0"	7'-0"	1 3/4"	1B	-	WD	A	HM	H3	J3	-	
808C	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-18	ALUM	H7	J7	S7	
809	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H2	J2	S5	
809A	3'-0"	7'-0"	1 3/4"	3A	-	HM	C	HM	H4	J4	S5	
809B	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
809C	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H4	J4	S5	
809D	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H4A	J4A	-	
809E	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-1	ALUM	H1 / A821	J7	S7	
809F	3'-0"	7'-0"	1 3/4"	1A	-	HM	A	HM	H8	J8 / J8A	S9	
810	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
810A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
810B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S7	
811	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
811A	6'-0"	7'-0"	1 3/4"	NONE	-	-	-	H12	J12	-	CASED OPENING	
811B	6'-0"	7'-0"	1 3/4"	NONE	-	-	-	H12	J12	-	CASED OPENING	
811C	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S2	
811D	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
812	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
812A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
812B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17 OP HD	ALUM	H2 / A821	J1 / A821	S7	
813	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
813A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
813B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S7	
814	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
814A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
814B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S7	
815	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
815A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
815B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17 OP HD	ALUM	H2 / A821	J1 / A821	S7	
817	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	-	
817A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
817B	3'-0"	7'-0"	1 3/4"	5A	-	ALUM	SF-17	ALUM	H2 / A821	J1 / A821	S7	
818	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H1	J1	S4	
819	6'-0"	7'-0"	1 3/4"	5B	-	ALUM	SF-3	ALUM	H3 / A821	J3 / A821 & J3A / A821	S7	WITH REMOVEABLE MULLION AND AUTOMATIC DOOR OPENER
820	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H1	J1	S4	
820A	6'-0"	7'-0"	1 3/4"	1B	-	HM	D	HM	H8	J8 / J8A	S8	WITH REMOVEABLE MULLION
821	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
822	3'-0"	7'-0"	1 3/4"	1A	60 MIN	HM	A	HM	H8	J8 / J8A	S8	
823	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H1	J1	S5	
824	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	S2	
825	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H1	J1	S2	
826	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H1	J1	-	
827	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
828	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
829	12'-0"	7'-6"	1 3/4"	6	-	ALUM	-	ALUM	H1 / A823	J5 / A823	S7	AUTOMATIC SLIDING GLASS DOORS
830	6'-0"	7'-0"	1 3/4"	5B	-	ALUM	SF-7	ALUM	-	-	-	
830A	7'-8"	7'-0"	1 3/4"	5B	-	HM	B	HM	H10	J10	S12	
831	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H14	J14	S12	
831A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
831B	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S5	
832	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S2	
833	3'-0"	7'-0"	1 3/4"	3A	-	WD	A	HM	H3	J3	S2	
834	6'-0"	7'-0"	1 3/4"	5B	-	ALUM	SF-14	ALUM	H7	J7 / J7A	S7	WITH REMOVEABLE MULLION AND AUTOMATIC DOOR OPENER
834B	6'-0"	7'-0"	1 3/4"	5B	-	ALUM	SF-2	ALUM	H7	J7 / J7A	S7	WITH REMOVEABLE MULLION
834C	7'-8"	7'-0"	1 3/4"	1B	-	WD	-	HM	H1	J1	-	
835	3'-0"	7'-0"	1 3/4"	3A	60 MIN	WD	A	HM	H1	J1	S5	
835A	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
835B	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	S6	
835C	3'-0"	7'-0"	1 3/4"	1A	-	WD	A	HM	H3	J3	-	
836	6'-0"	7'-0"	1 3/4"	1B	3 HR	HM	B	HM	H10	J10	S12	
836A	6'-0"	7'-0"	1 3/4"	5B	-	ALUM	SF-7	ALUM	H7	J7 / J7A	S7	WITH REMOVEABLE MULLION
837	6'-0"	7'-0"	1 3/4"	1B	3 HR	HM	B	HM	H10	J10	S11	
837A	6'-0"	7'-0"	1 3/4"	1A	-	ALUM	SF-7	ALUM	H7	J7 / J7A	S7	WITH REMOVEABLE MULLION
837B	3'-0"	7'-0"	1 3/4"	1A	60 MIN	WD	A	HM	H3	J3	-	
839	6'-0"	7'-0"	1 3/4"	5B	-	ALUM	SF-7	ALUM	H3A / A821	J15 / J15A	S7	WITH REMOVEABLE MULLION
840A	6'-0"	7'-0"	1 3/4"	1B	60 MIN	HM	B	HM	H6	H6	S8	WITH REMOVEABLE MULLION
1000	6'-0"	6'-6"	1 3/4"	1A	60 MIN	HM	B	HM	H3	J3	-	ON MECHANICAL PLATFORM
1001	6'-0"	6'-6"	1 3/4"	1A	60 MIN	HM	B	HM	H3	J3	-	ON MECHANICAL PLATFORM
1001A	3'-0"	6'-6"	1 3/4"	1A	60 MIN	HM	A	HM	H3	J3	-	ON MECHANICAL PLATFORM

DOOR SCHEDULE - EXISTING BUILDING

DOOR NO.	DOOR</		
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EXTERIOR GLAZING SCHEDULE	
MARK	COMMENTS
GL-2	
GL-3A	1" INSULATED, TEMPERED - COLOR 1
GL-3B	1" INSULATED, TEMPERED - COLOR 2
GL-3C	1" INSULATED, TEMPERED - COLOR 3
GL-3D	1" INSULATED, TEMPERED - COLOR 4

NOTE:
REF A800 FOR HOLLOW METAL WINDOW FRAMES/DETAILS.

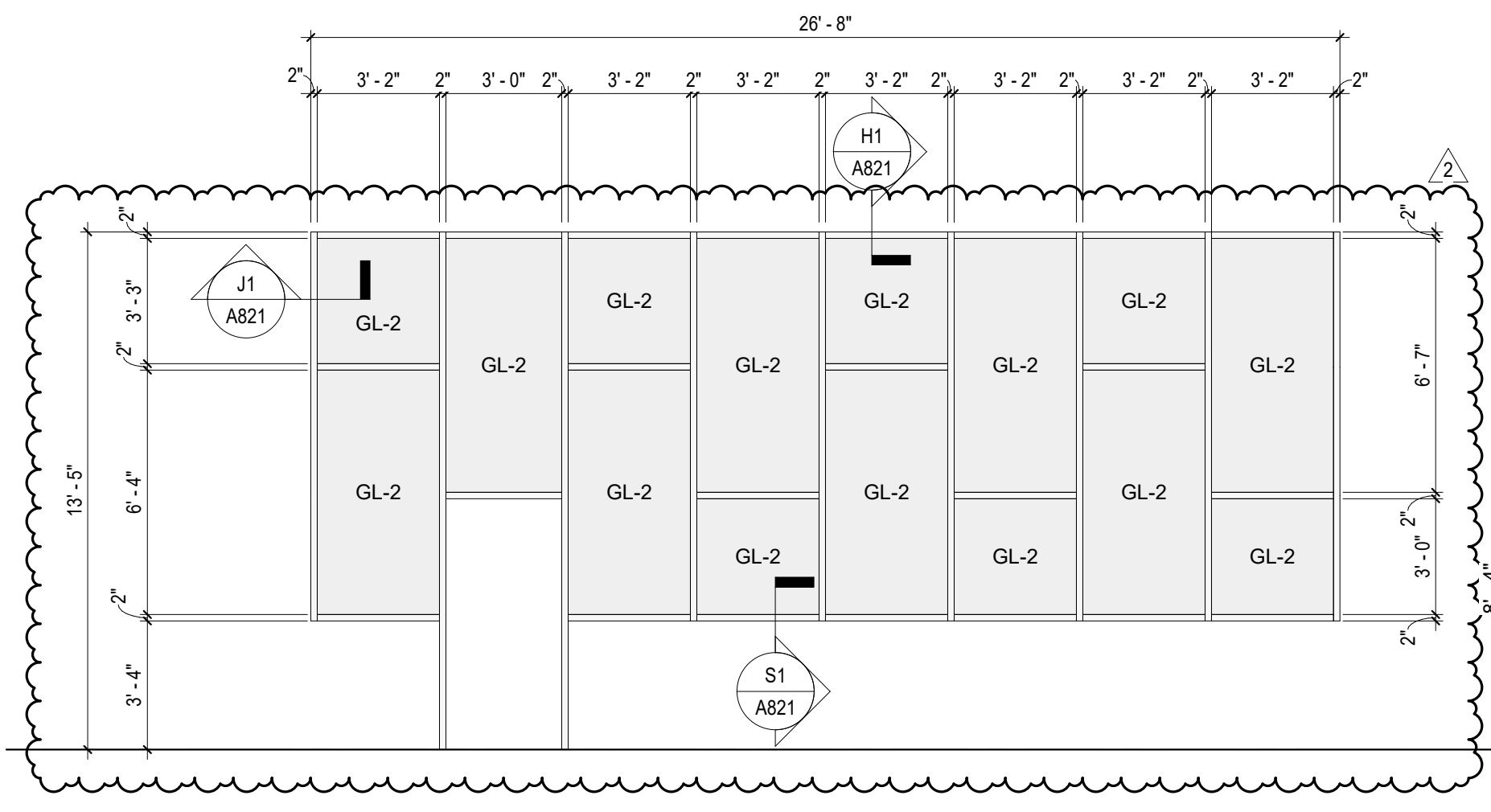
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CONSULTANT LOGO

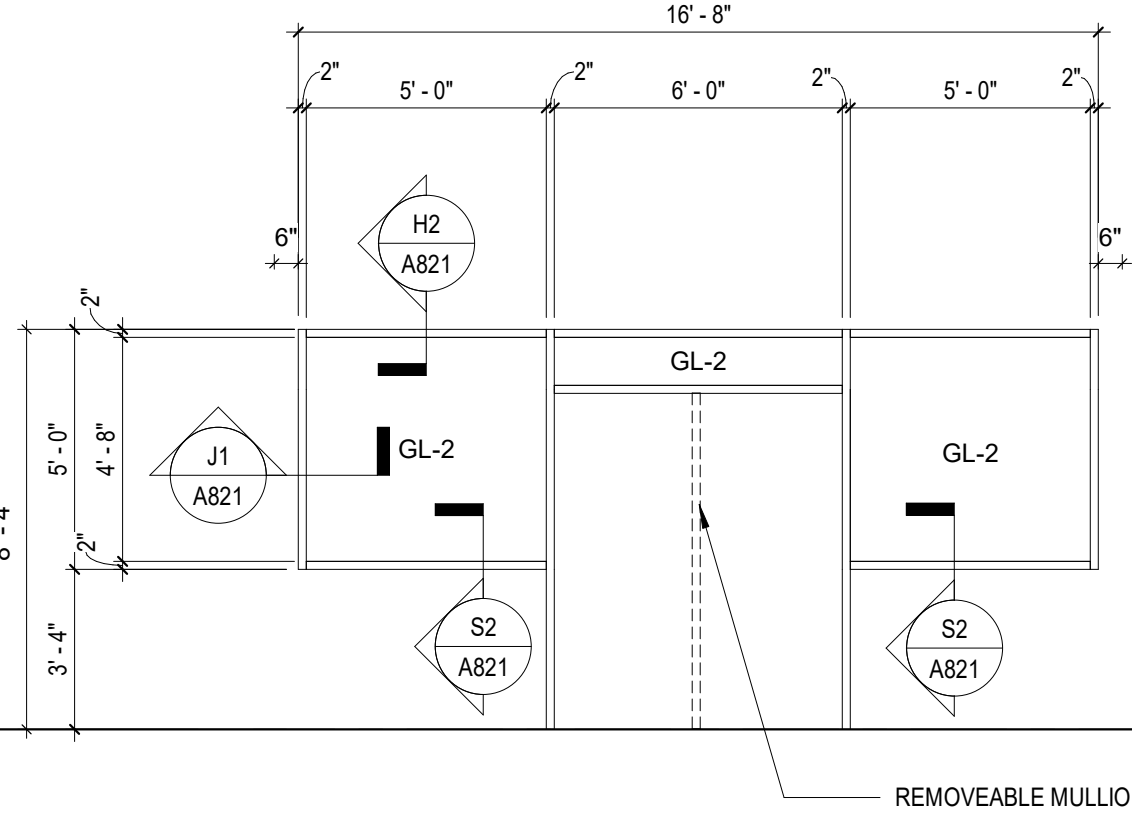
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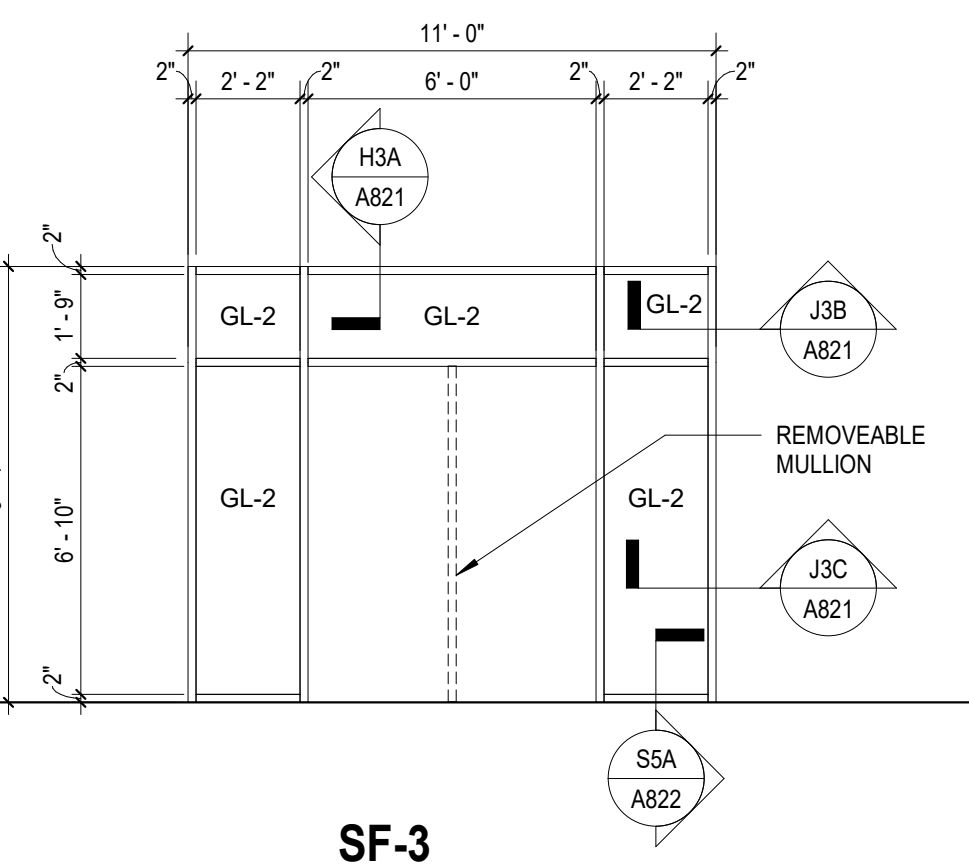
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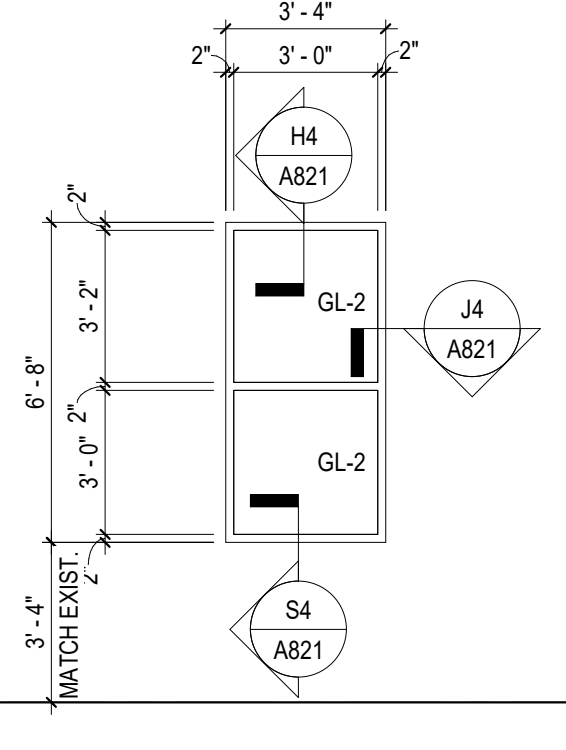
SF-1



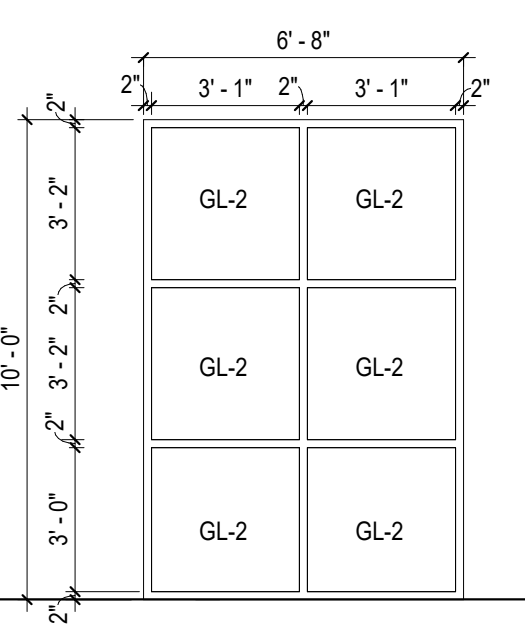
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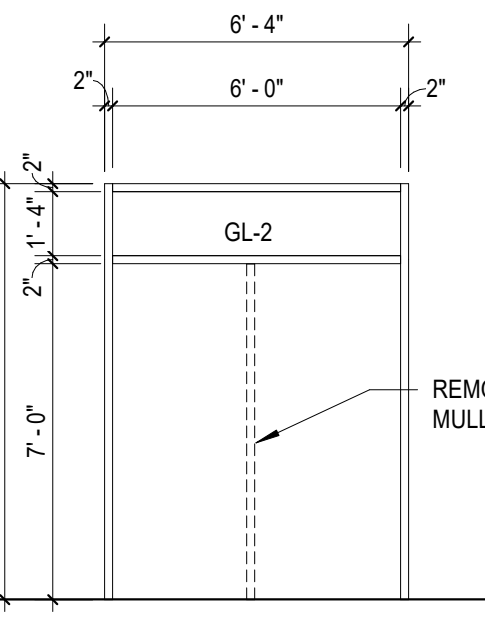
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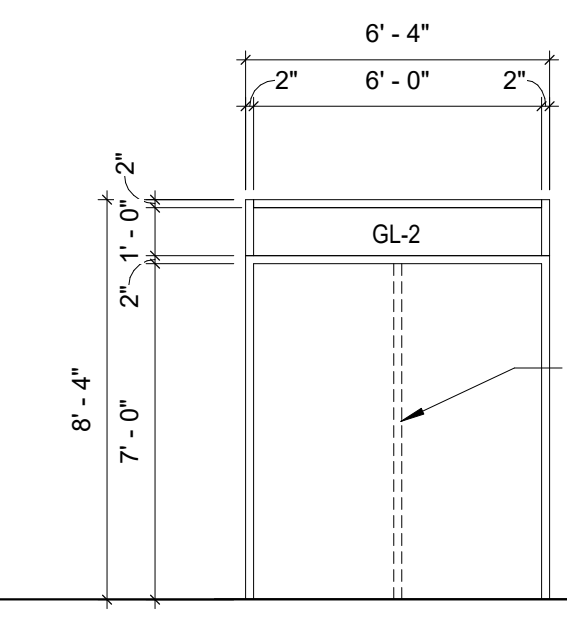
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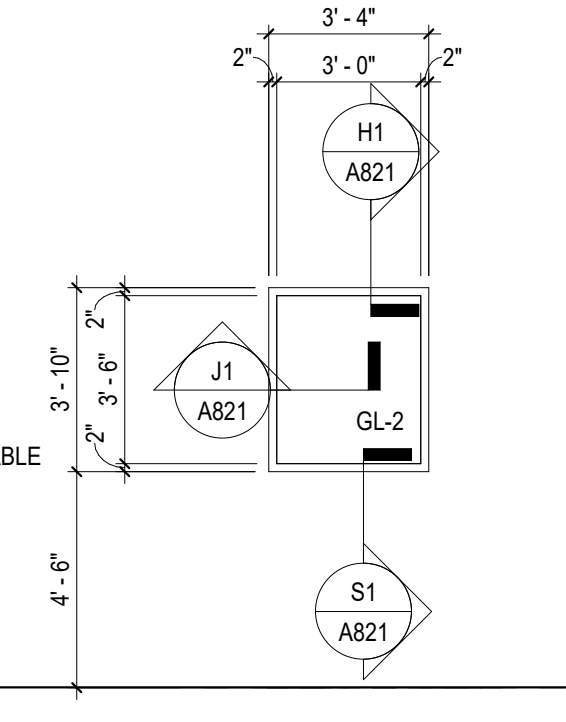
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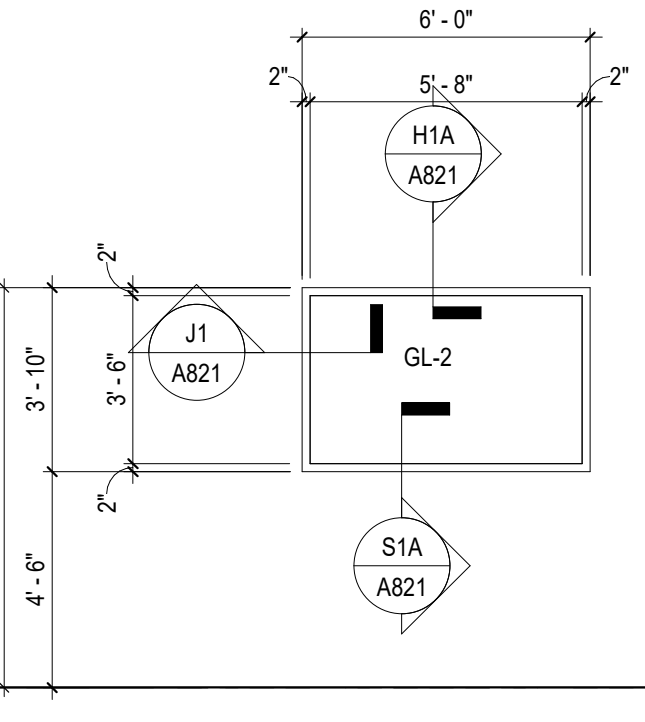
SF-7



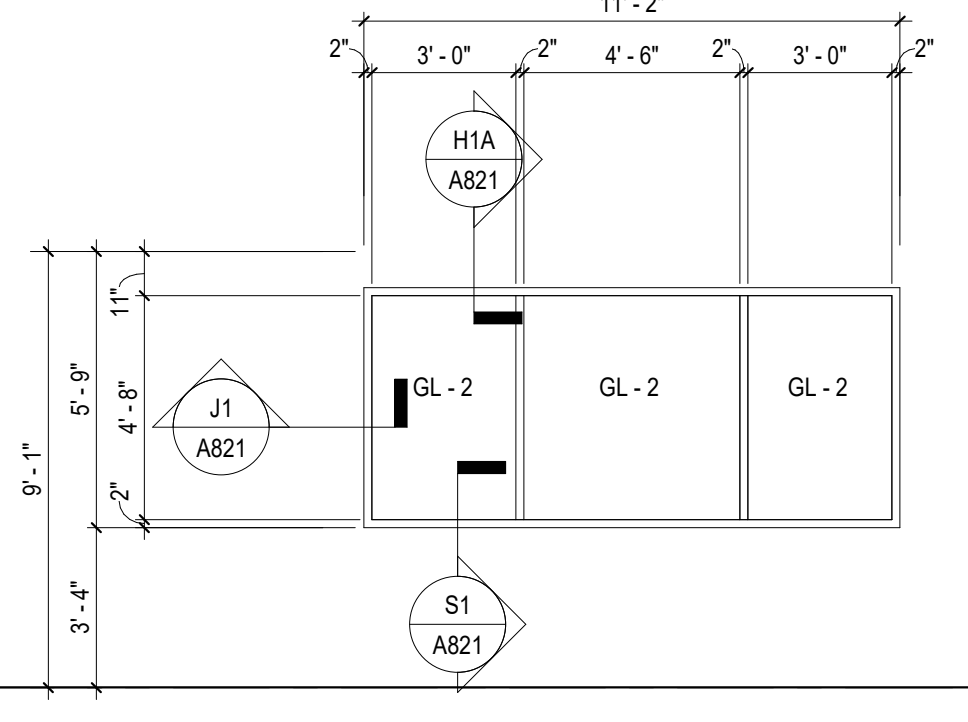
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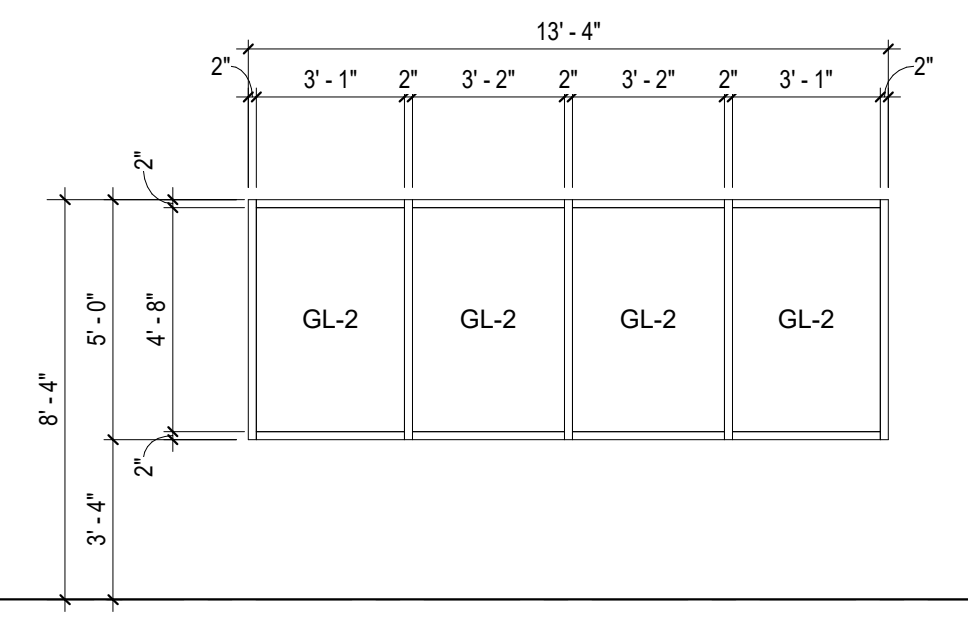
SF-8



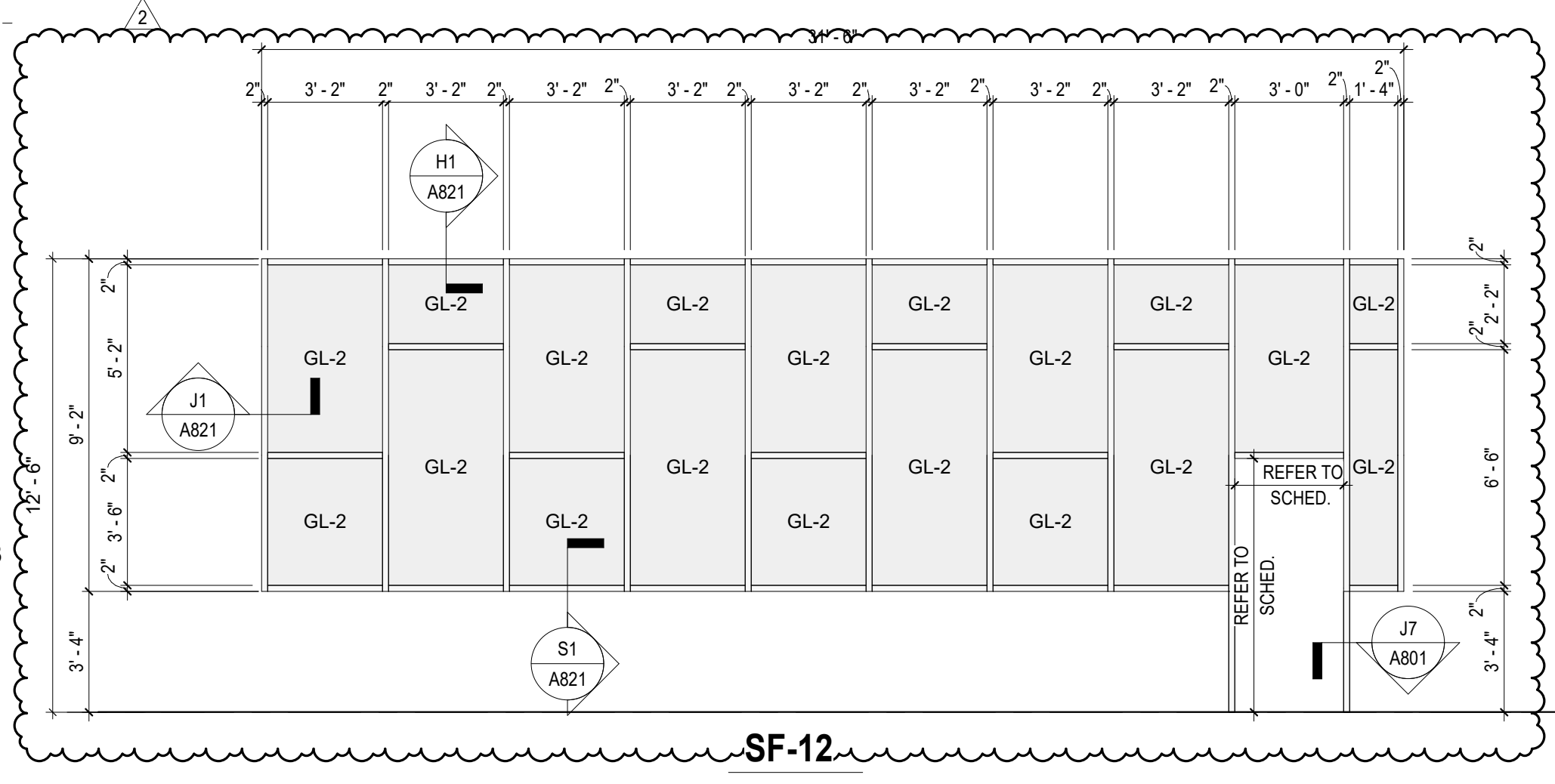
SF-9



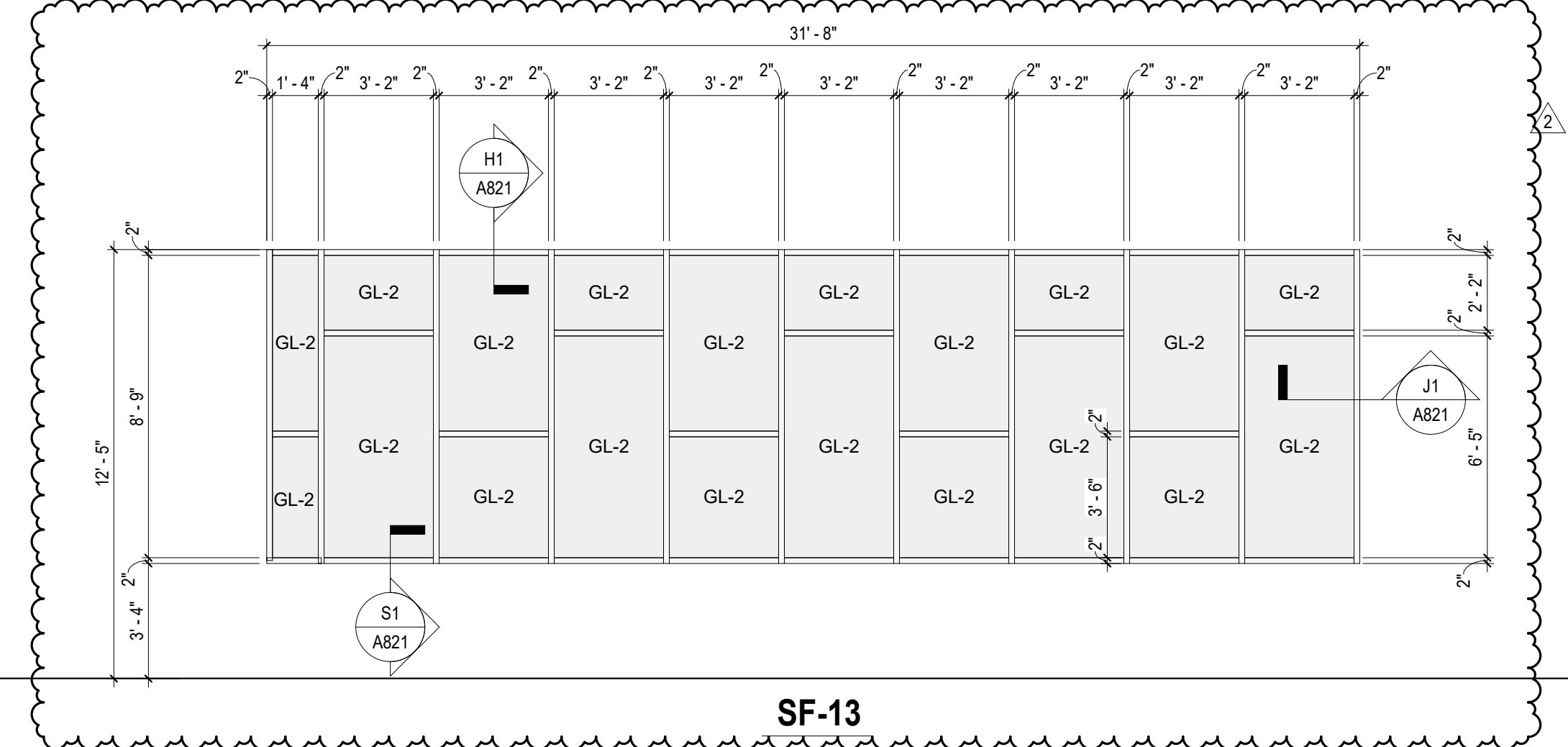
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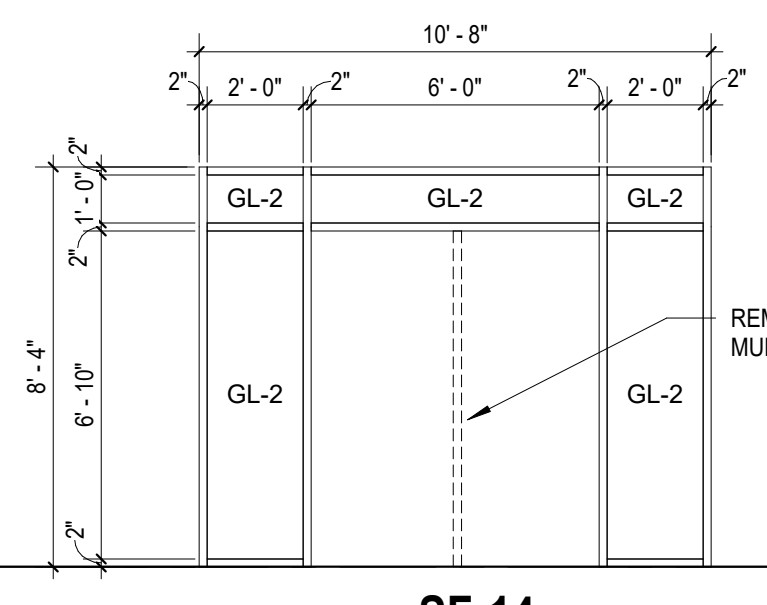
SF-11



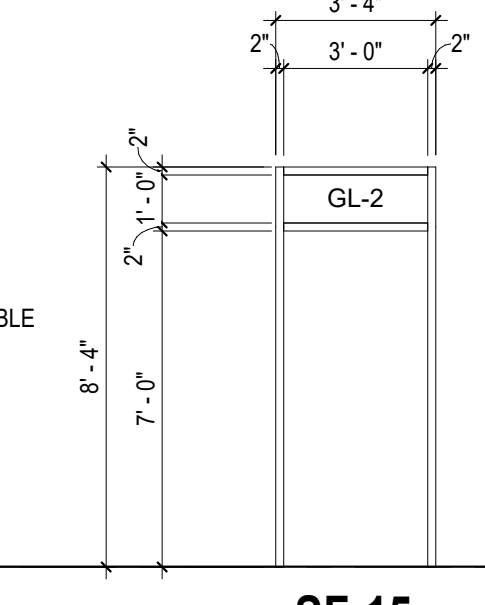
SF-12



SF-13



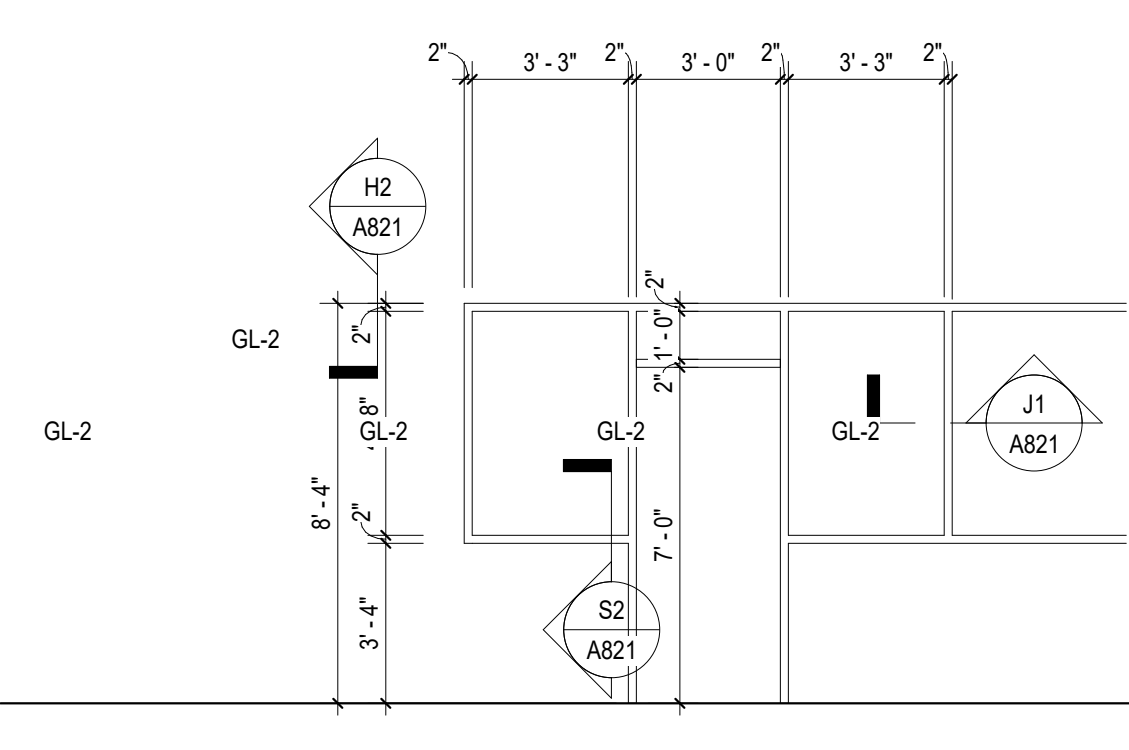
SF-14



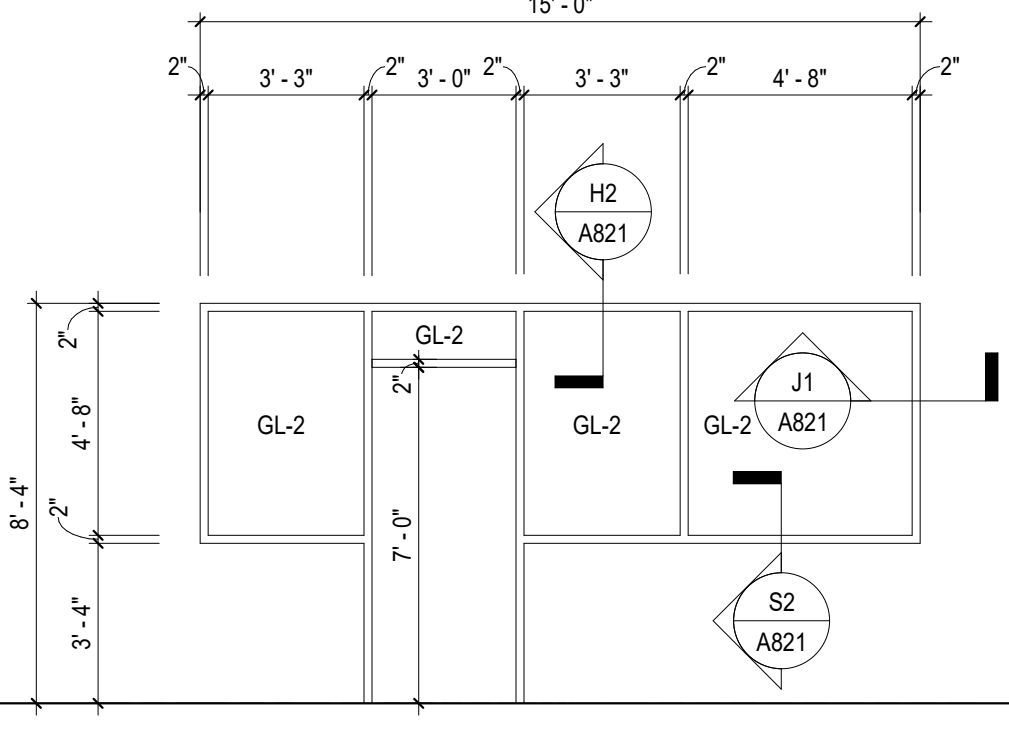
SF-15

NOT USED

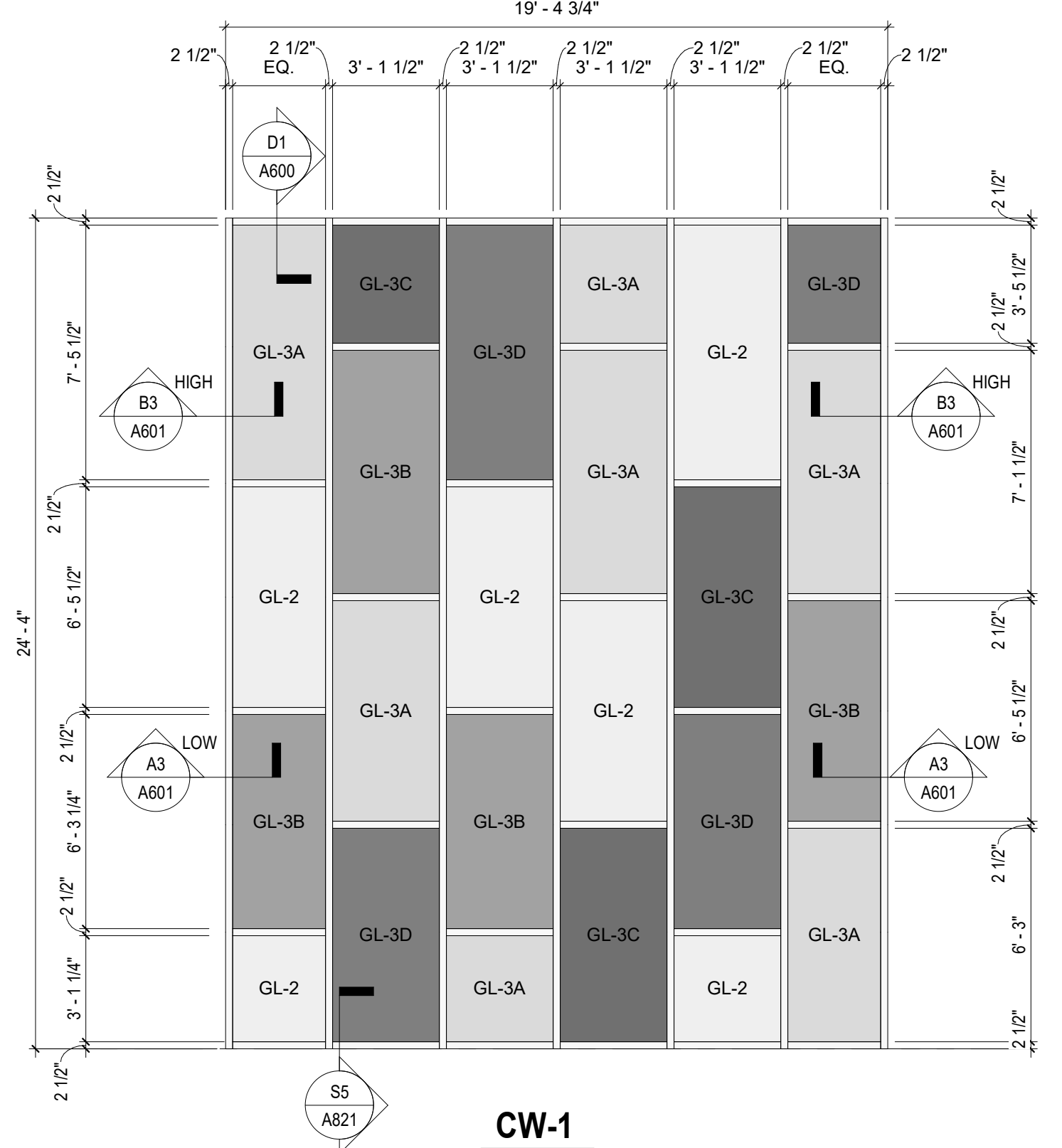
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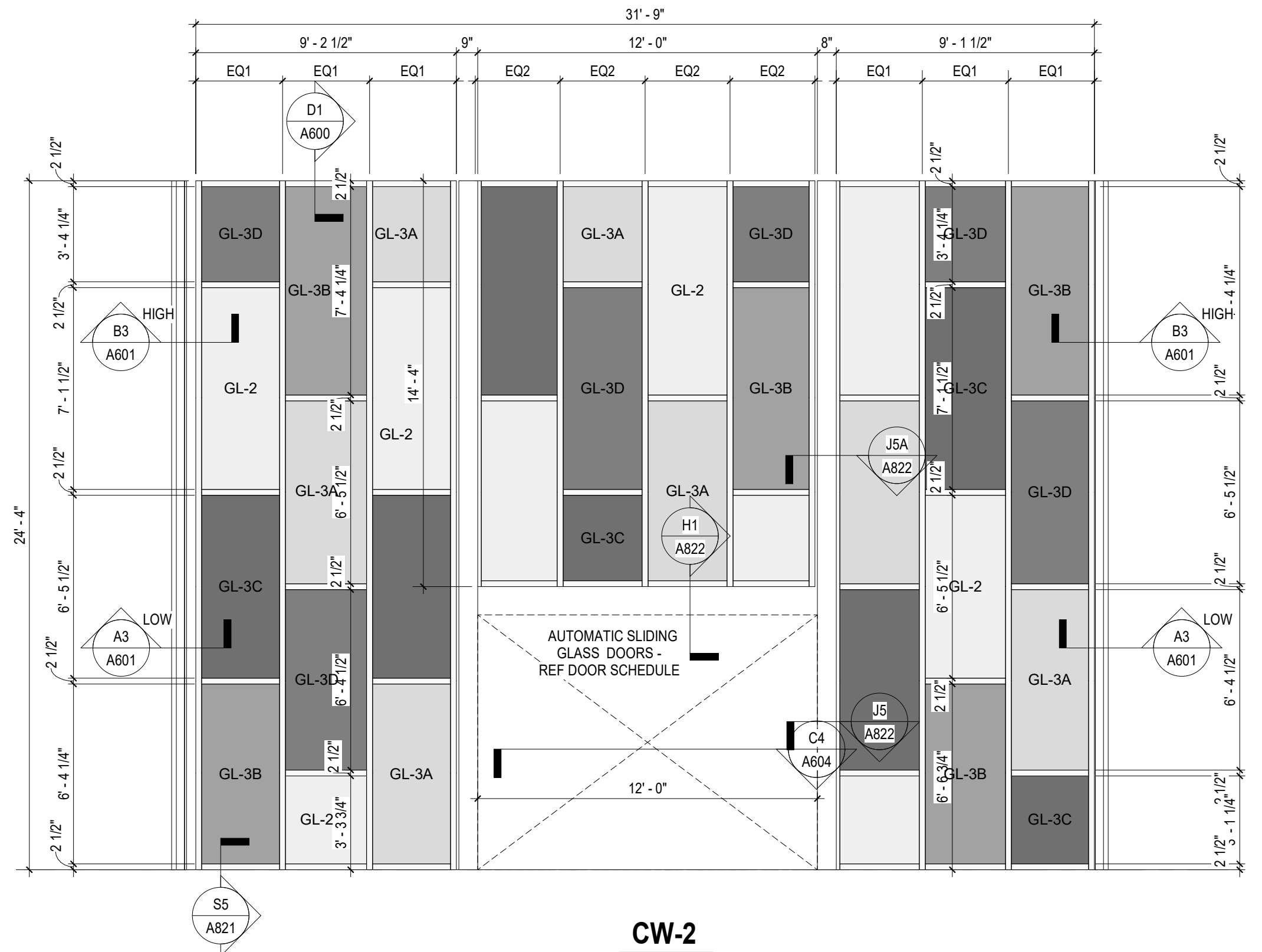
SF-17



SF-18



CW-1



CW-2

ALUMINUM STOREFRONT FRAMES

CURTAIN WALL FRAMES

SPARTANBURG SCHOOL DISTRICT 7

**ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL**

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

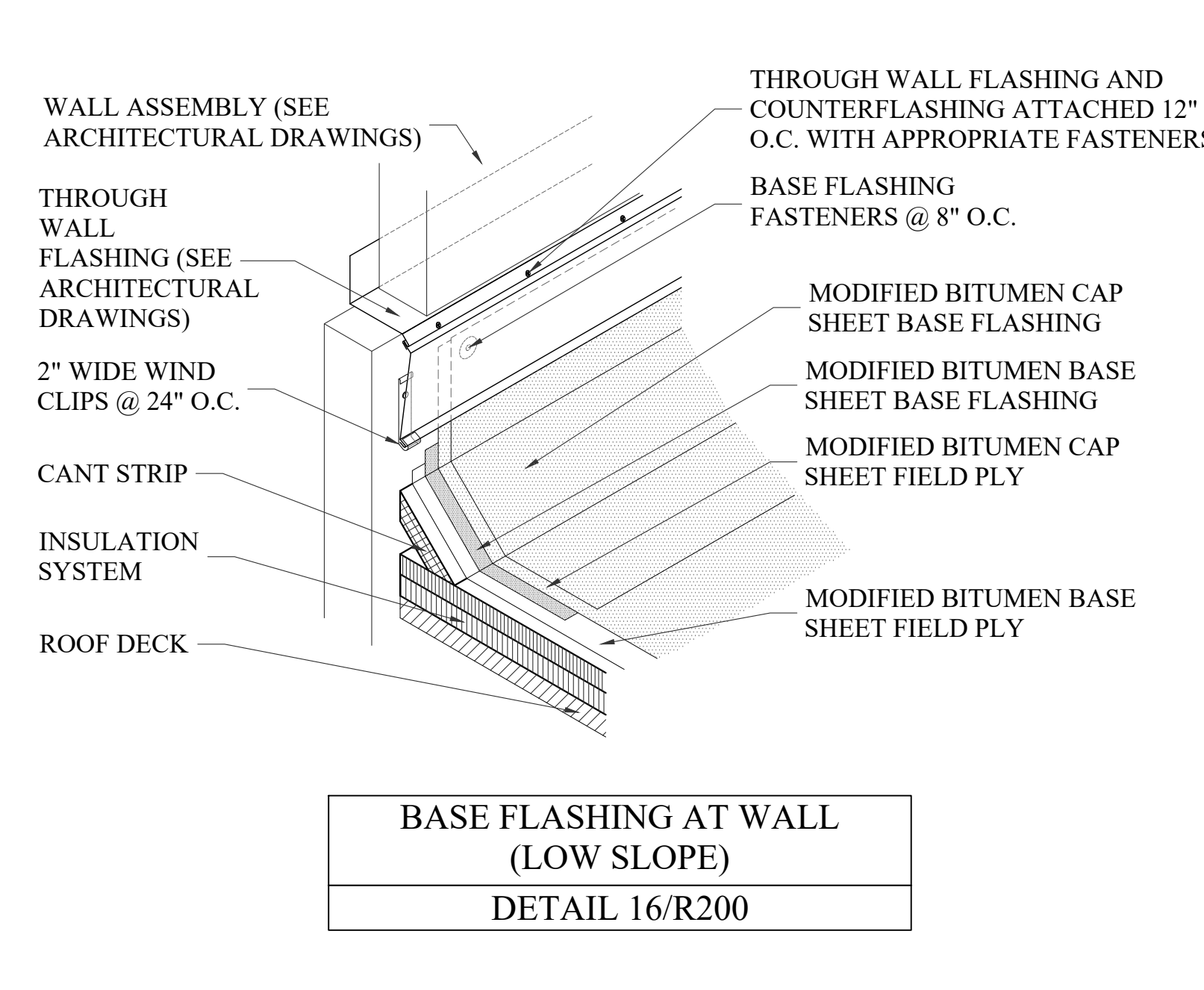
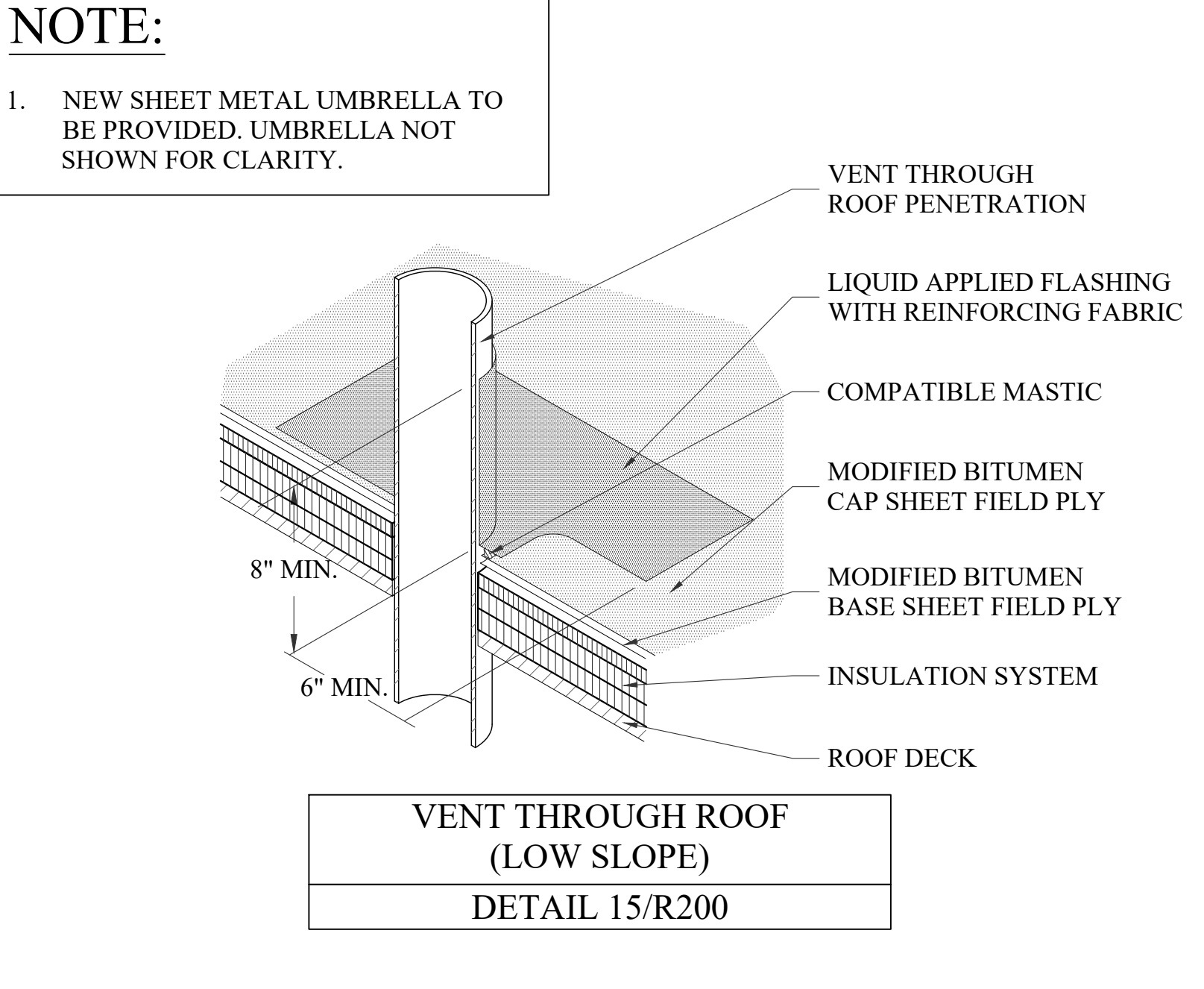
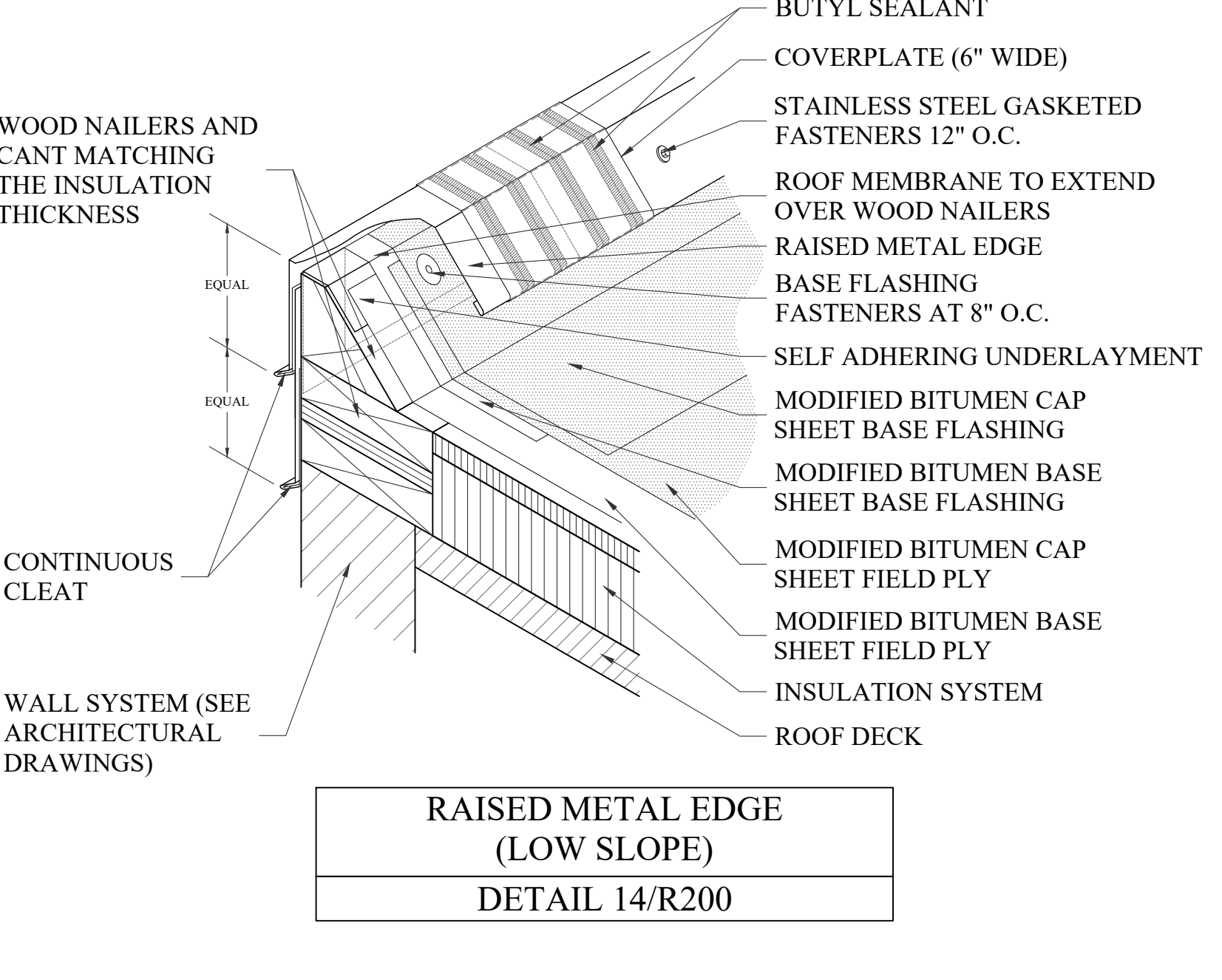
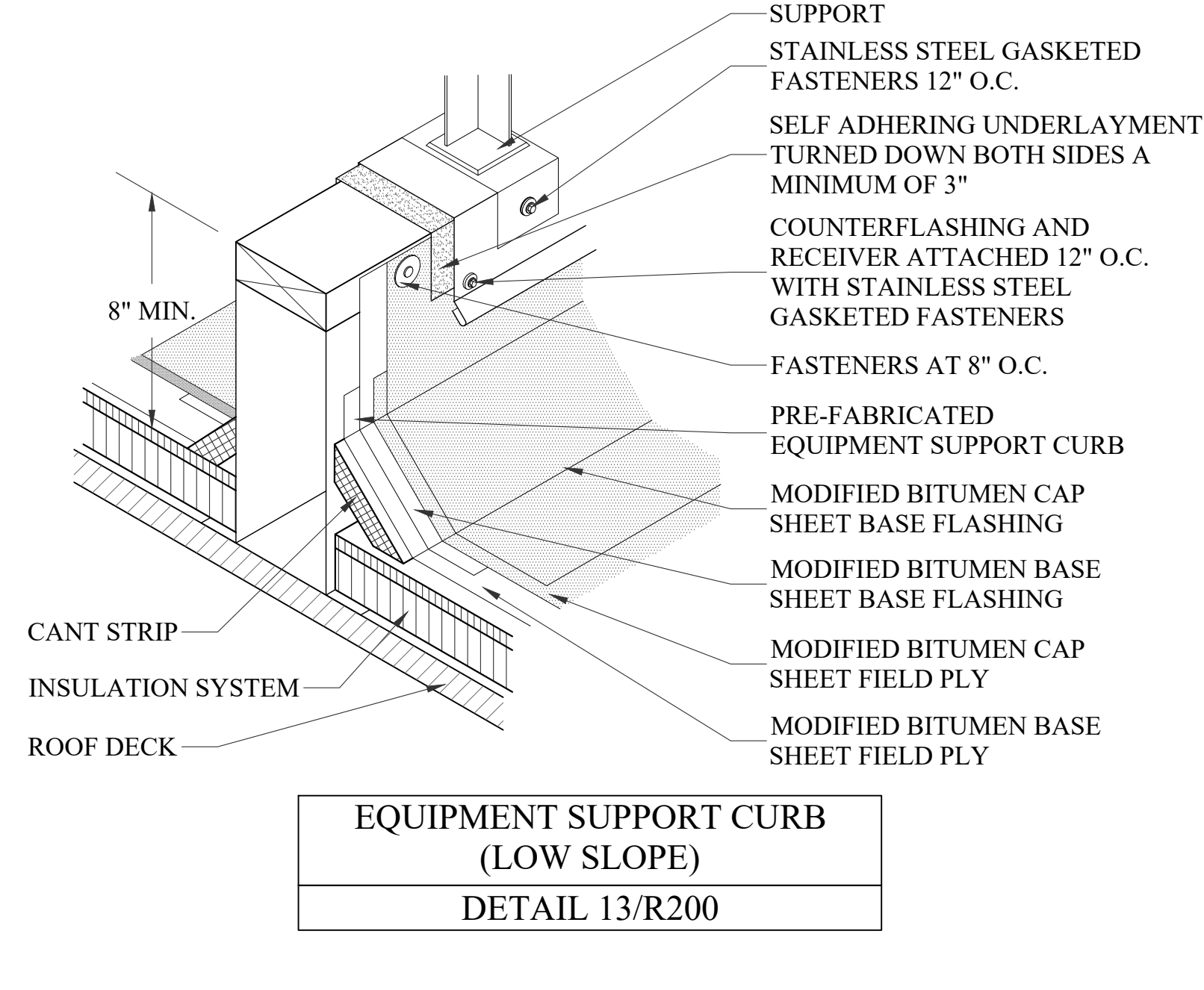
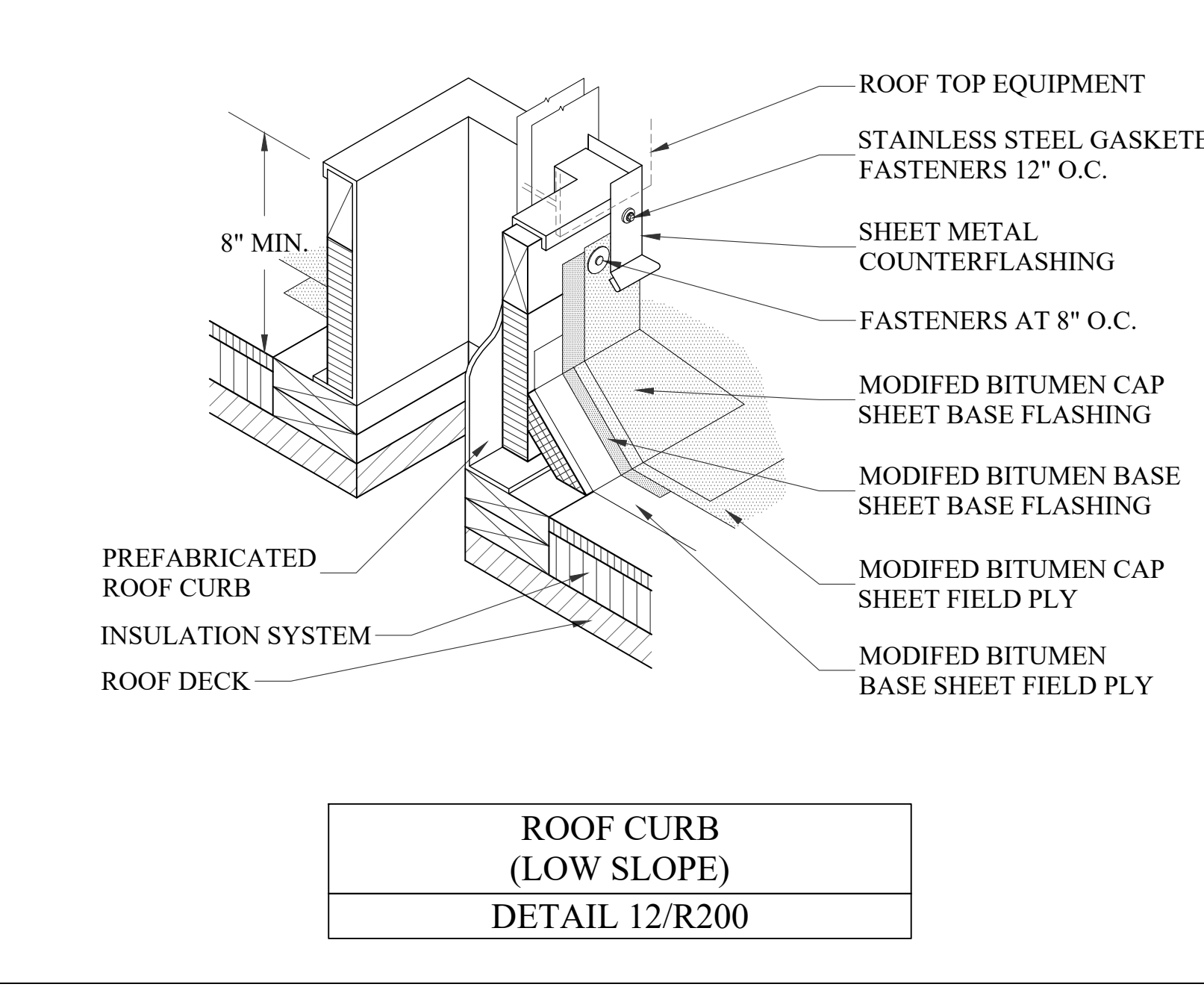
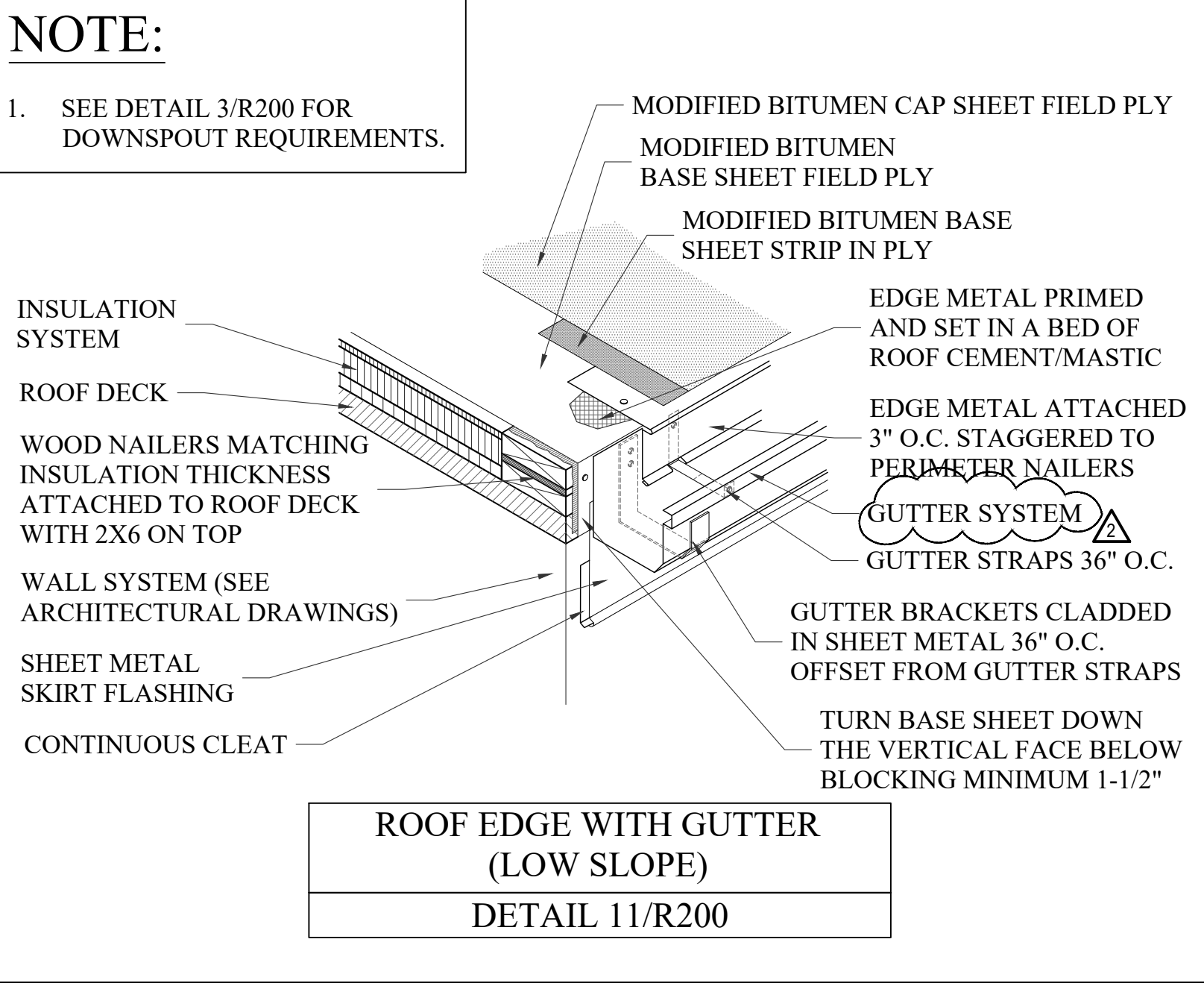
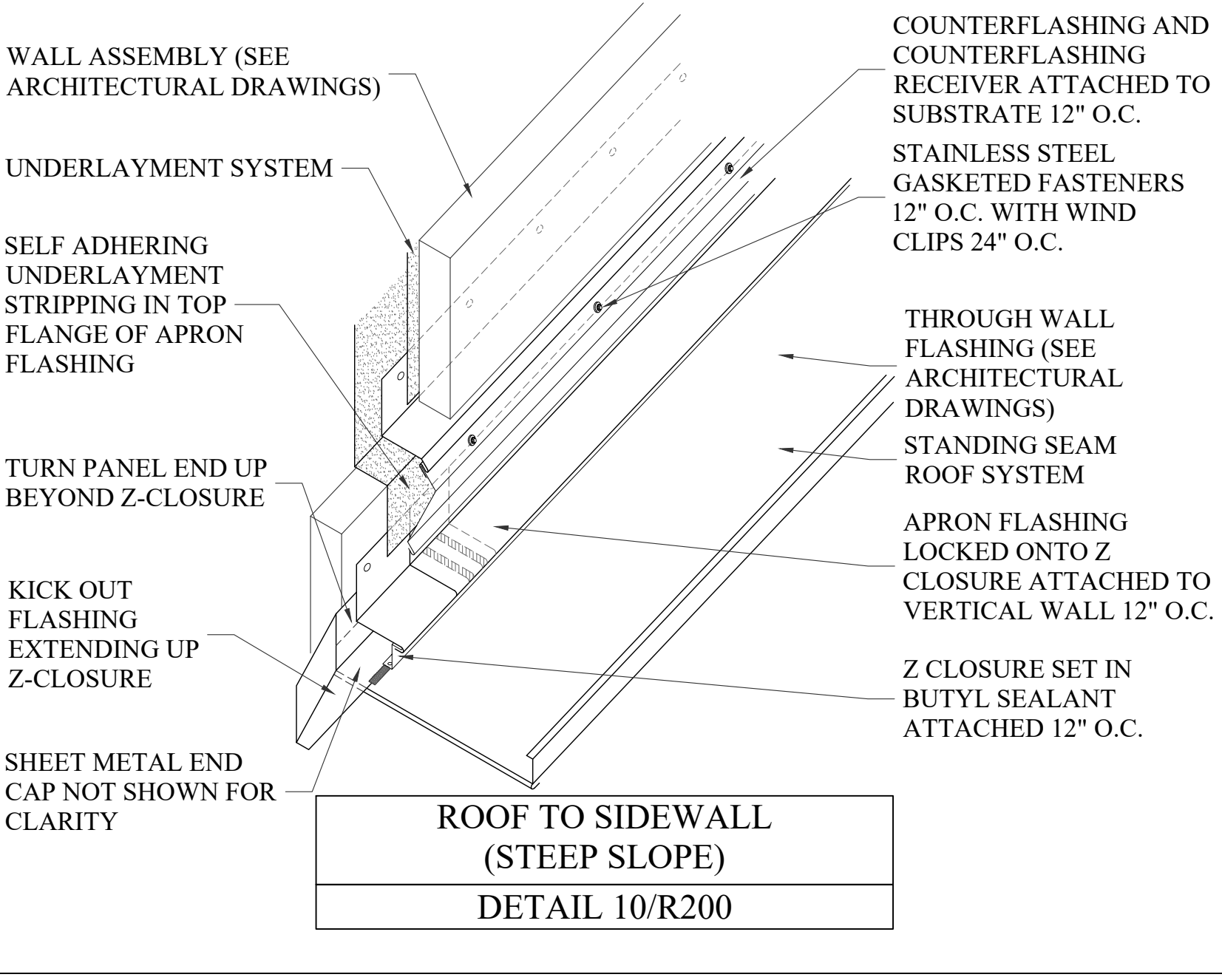
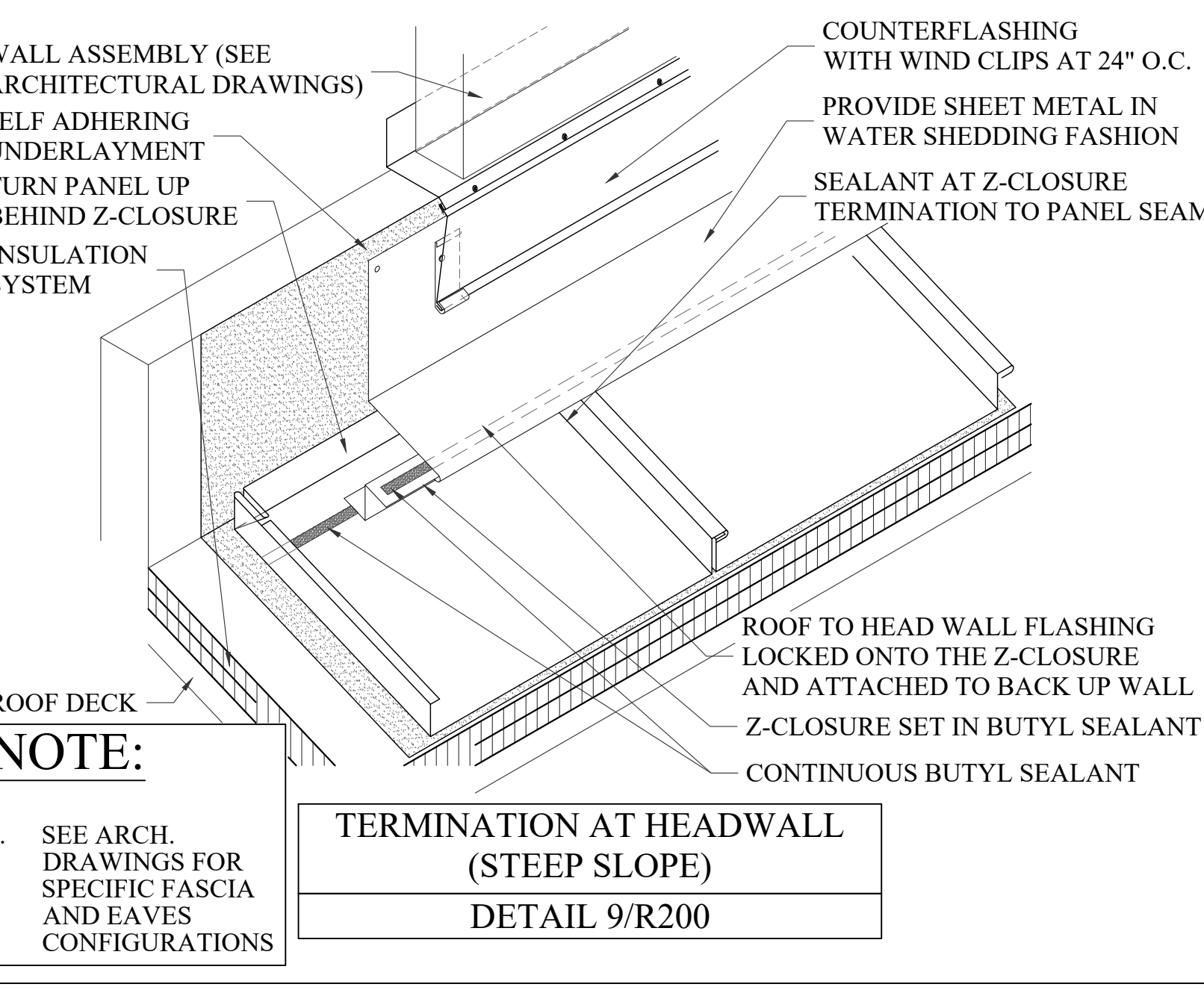
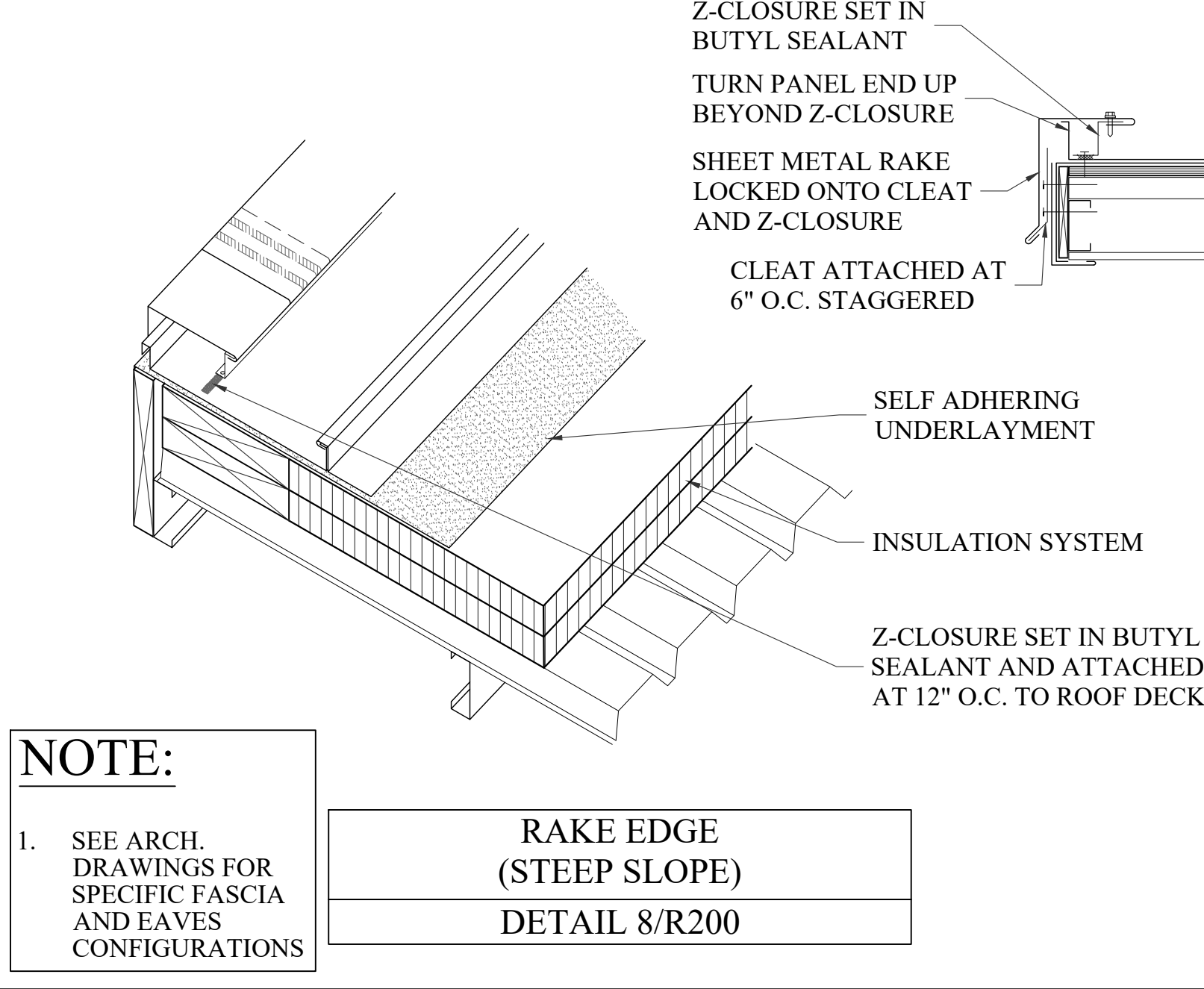
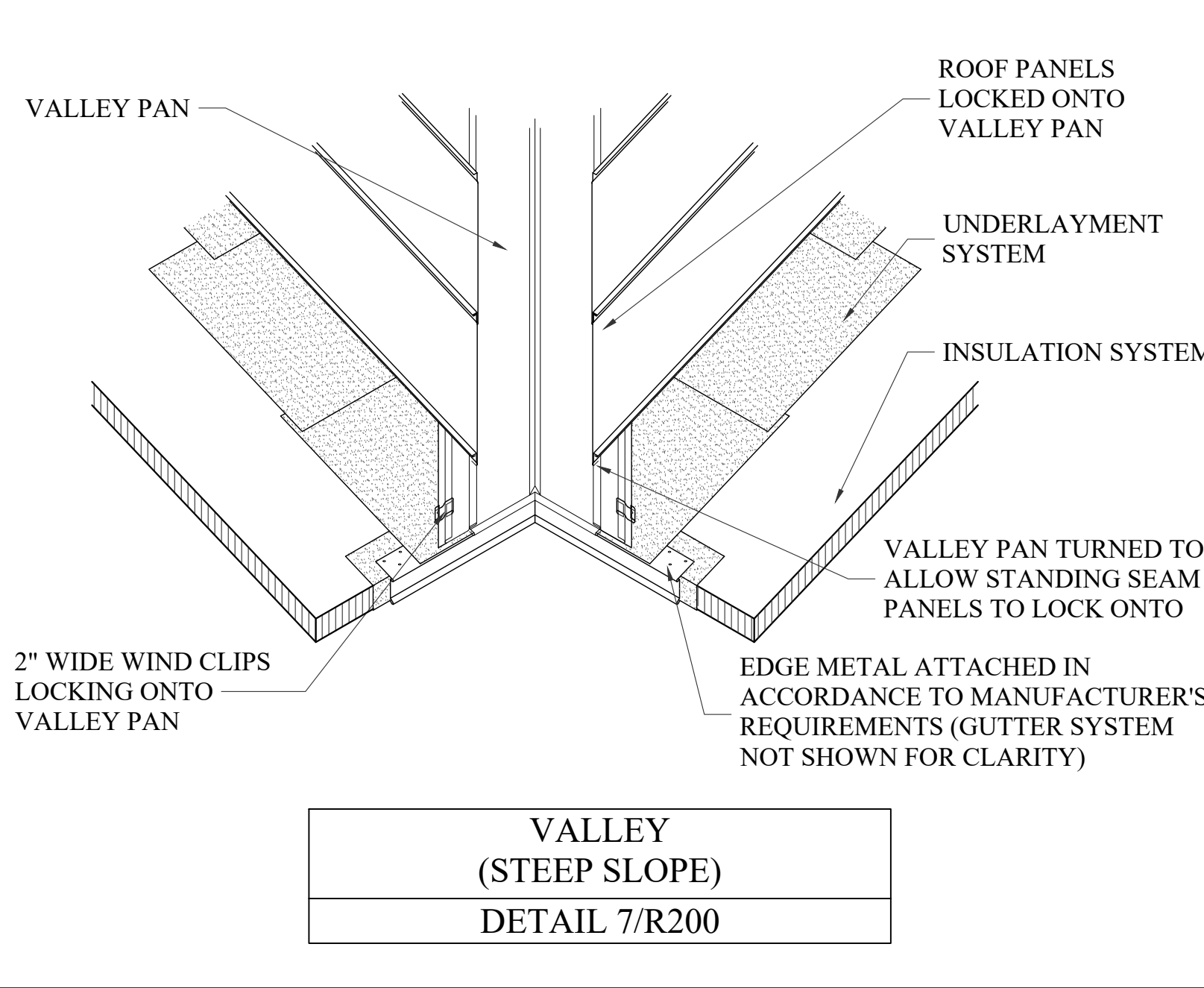
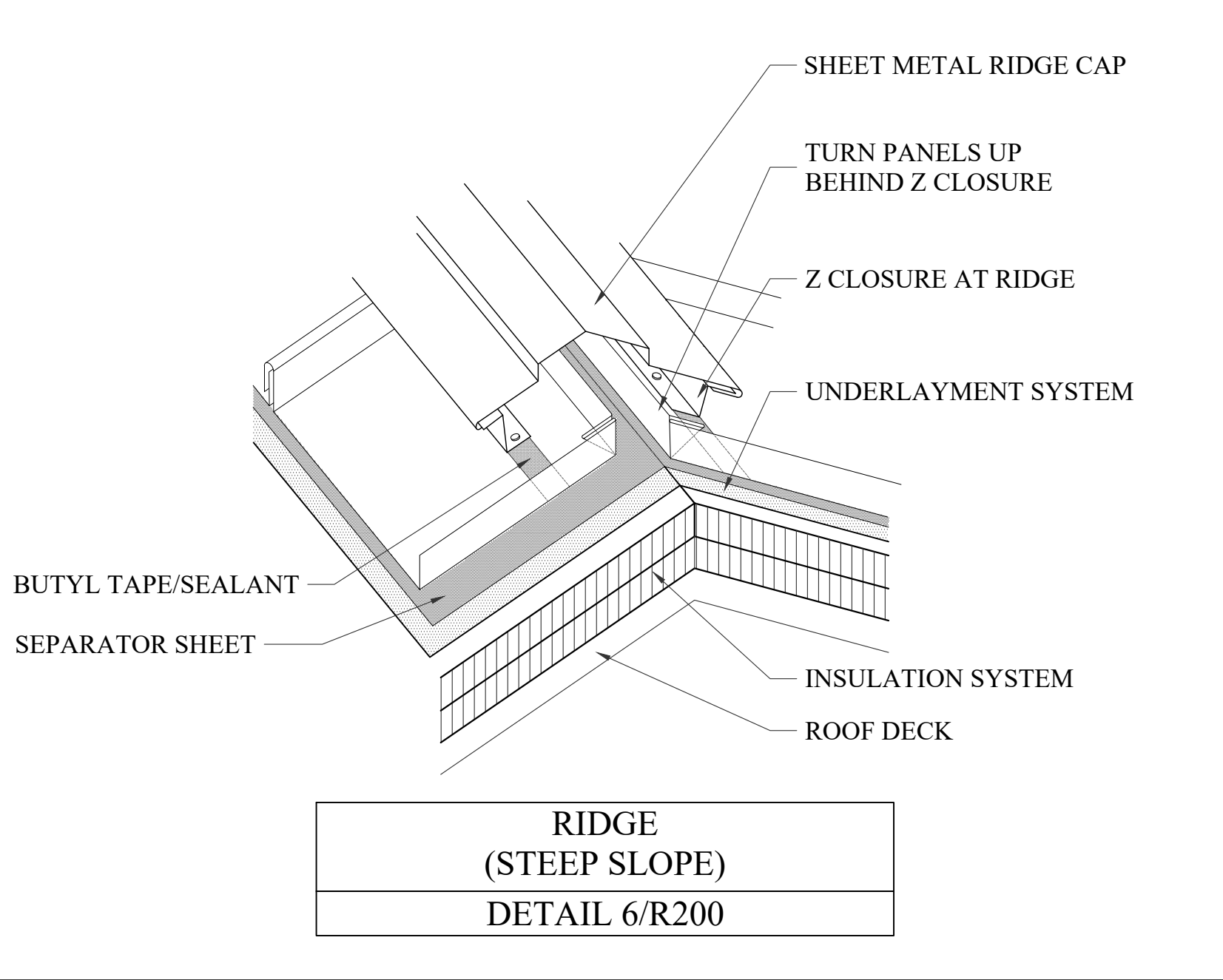
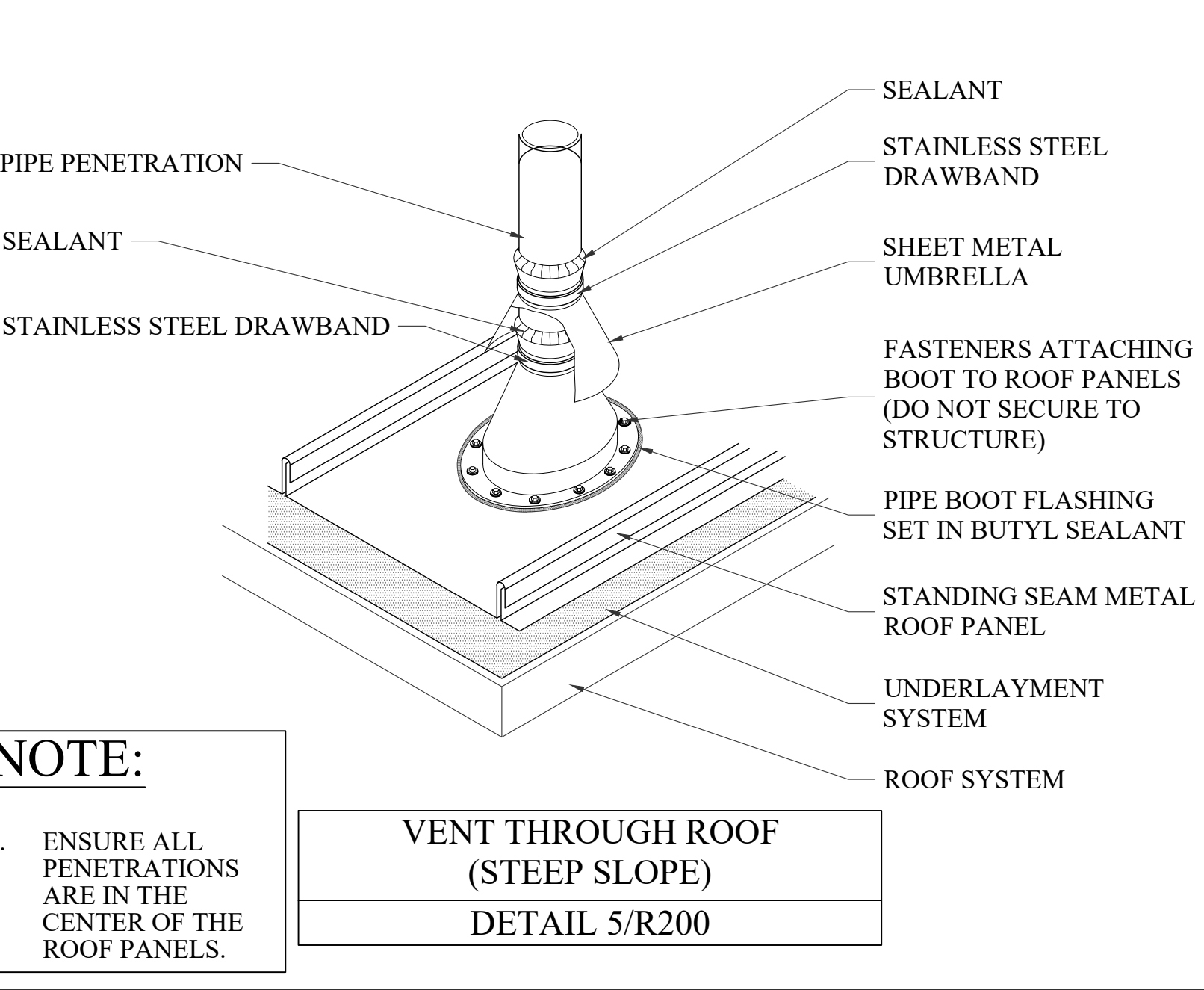
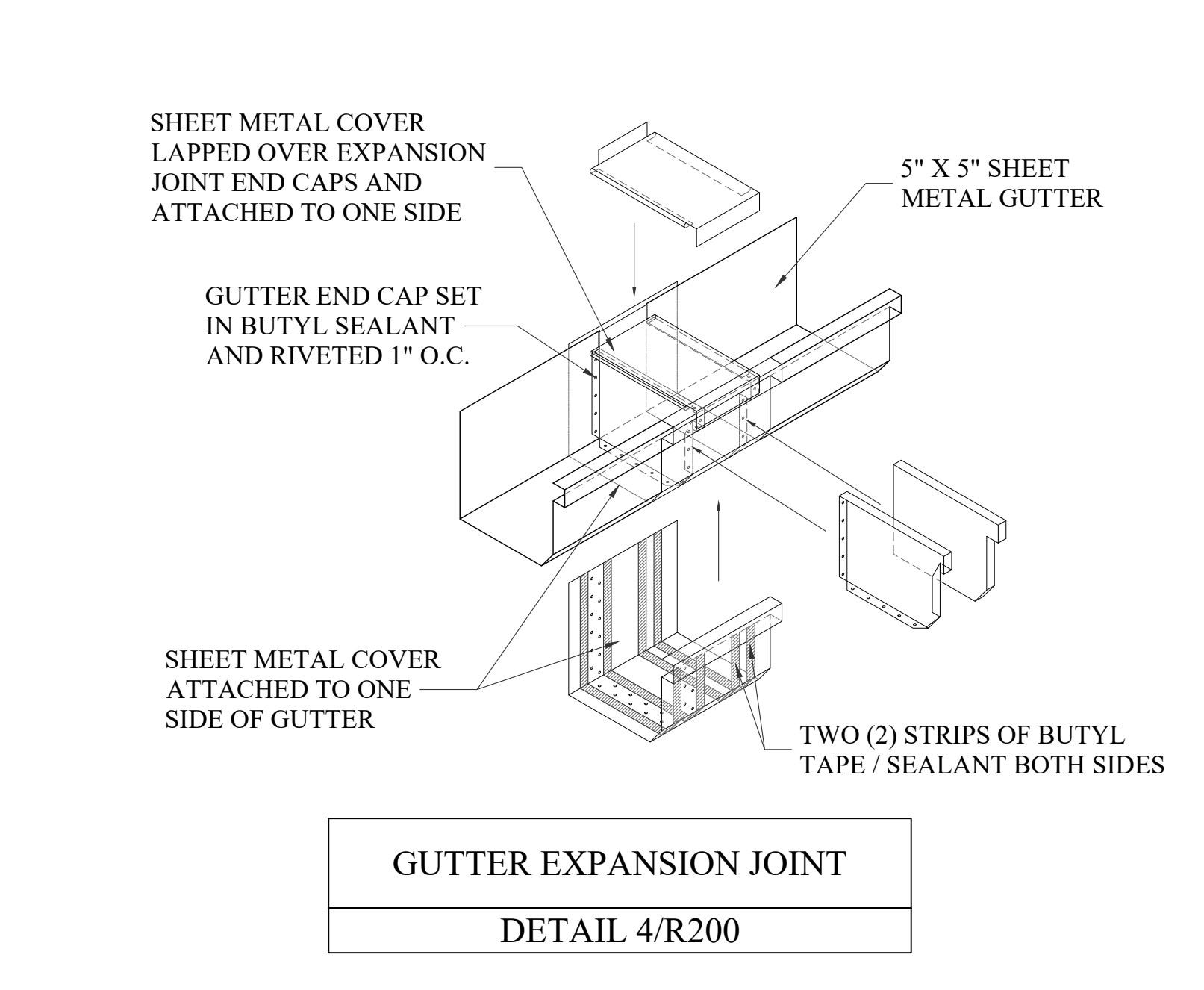
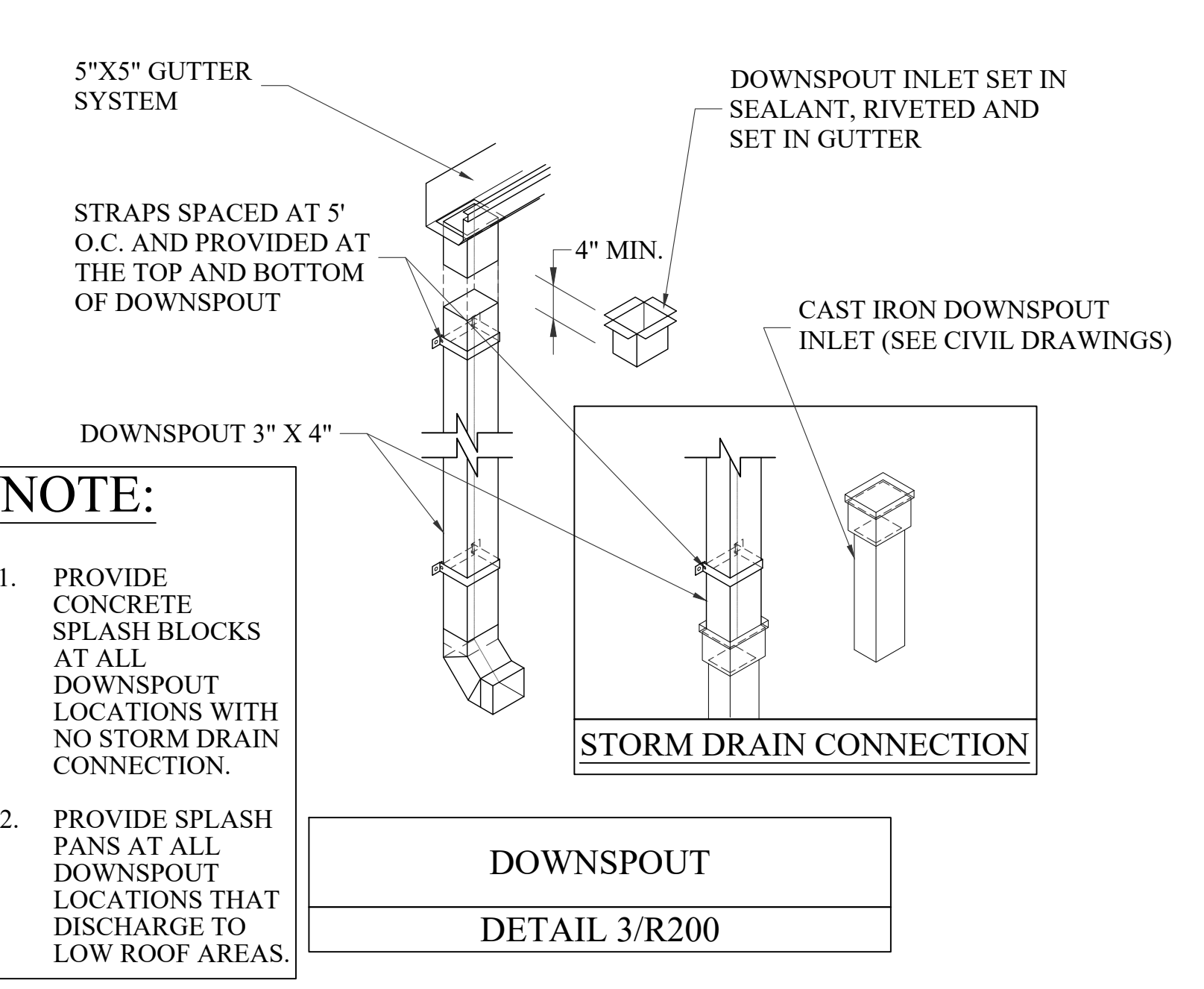
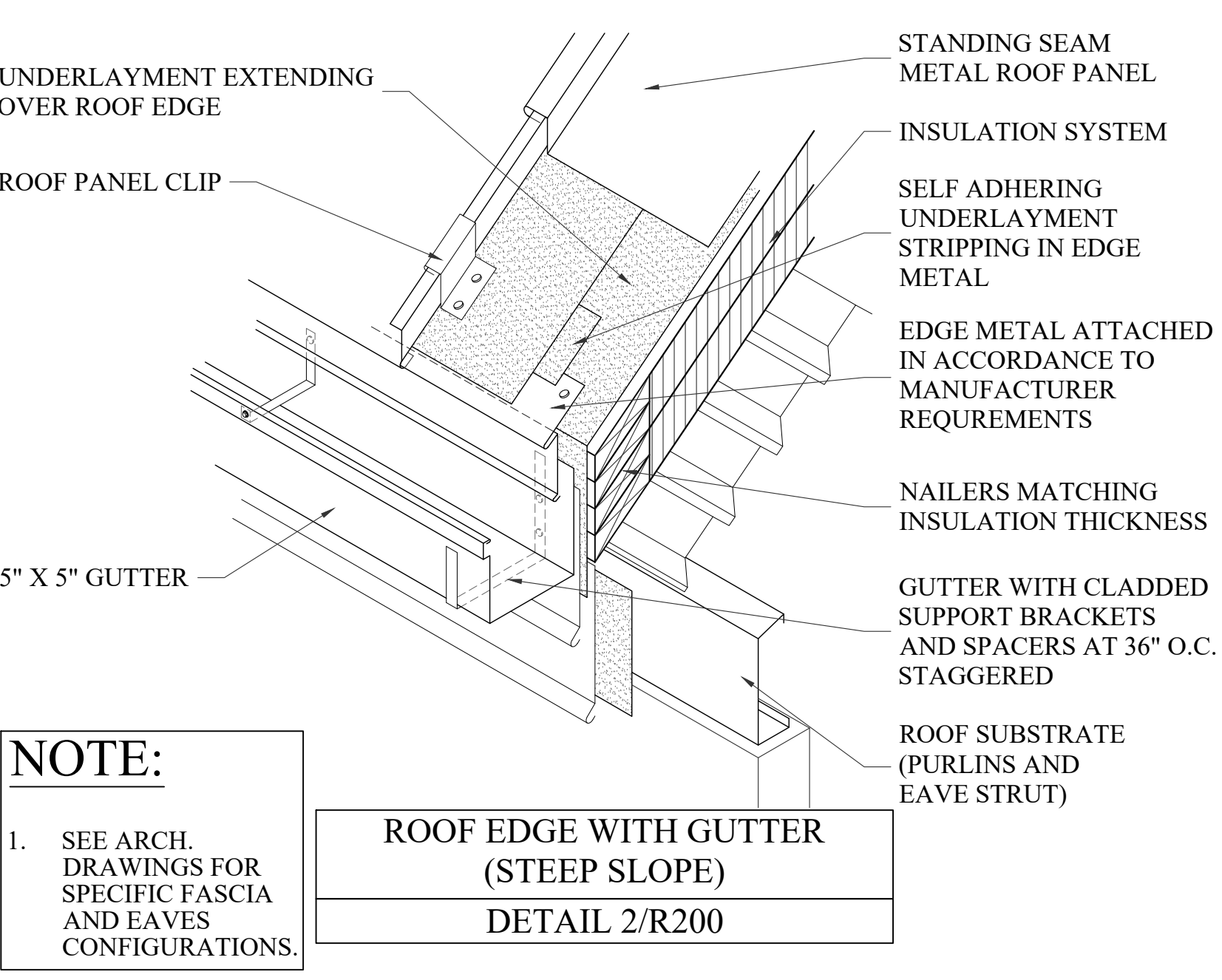
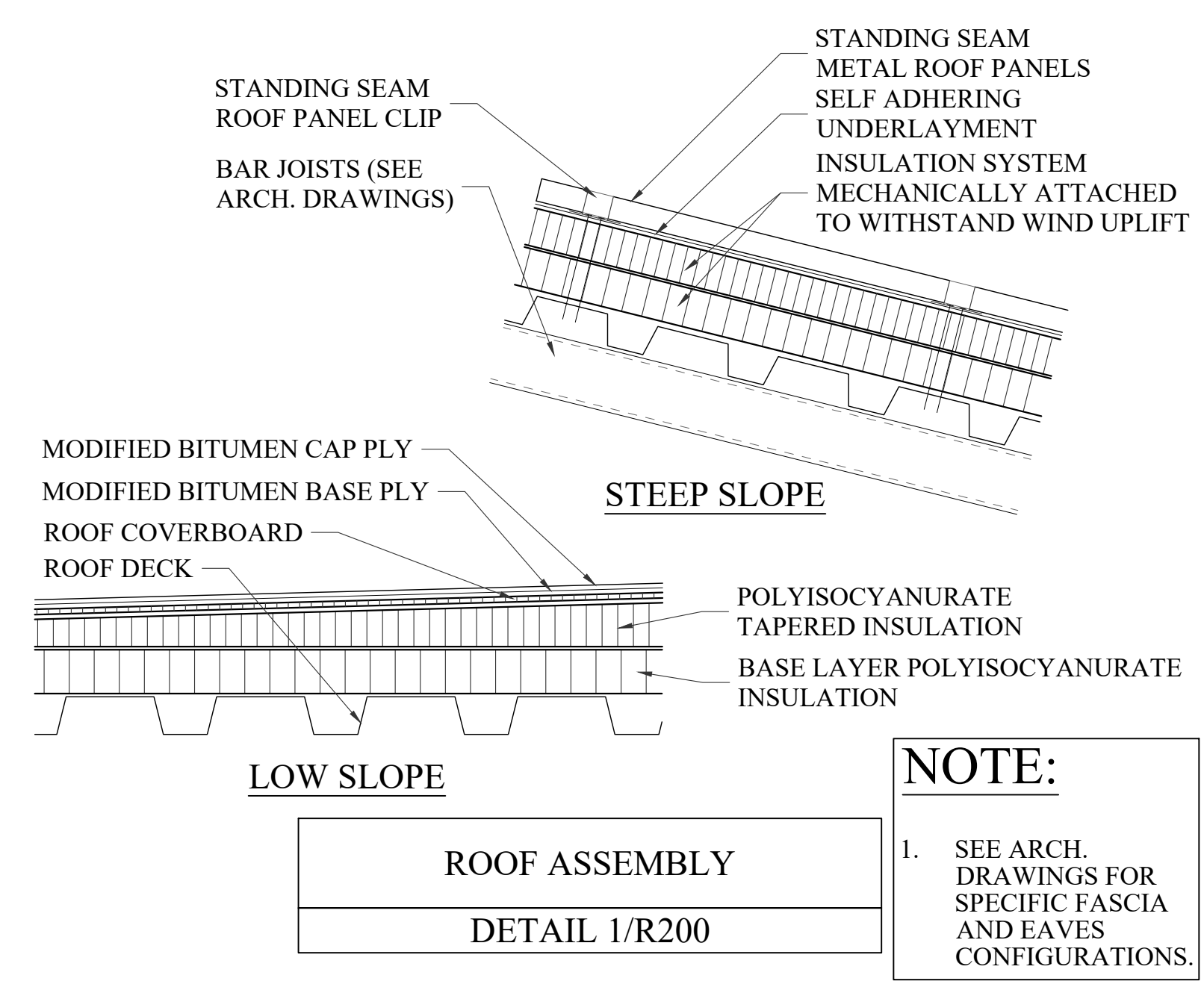
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2	05/12/2021	Addendum No. 2	DLL

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: DLL
 PROJECT ARCHITECT: DLL
 DRAWN BY: JMO, JSW, DDC

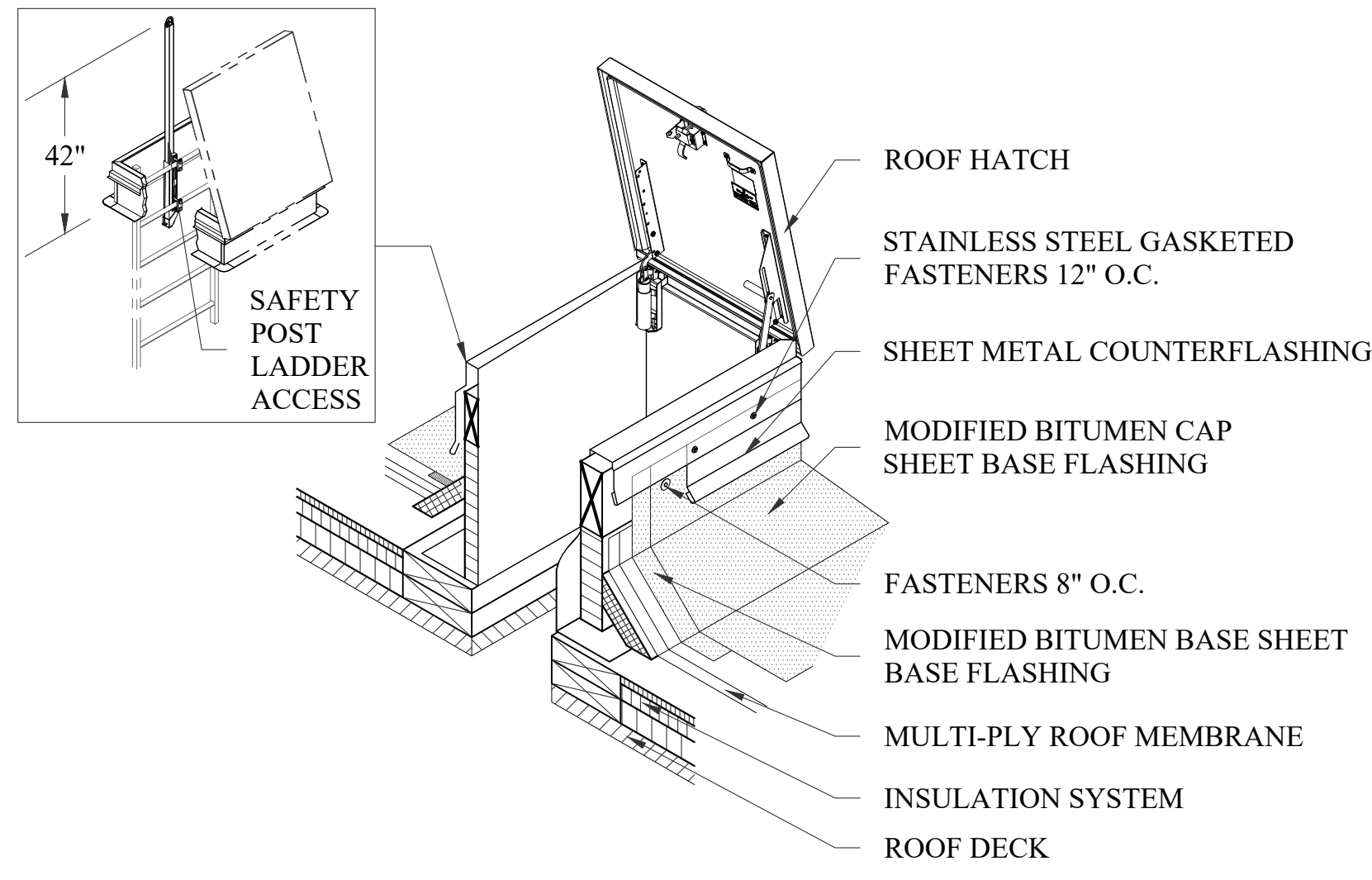
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WINDOW SCHEDULE

SHEET NO. PROJ. NO.
020063.00

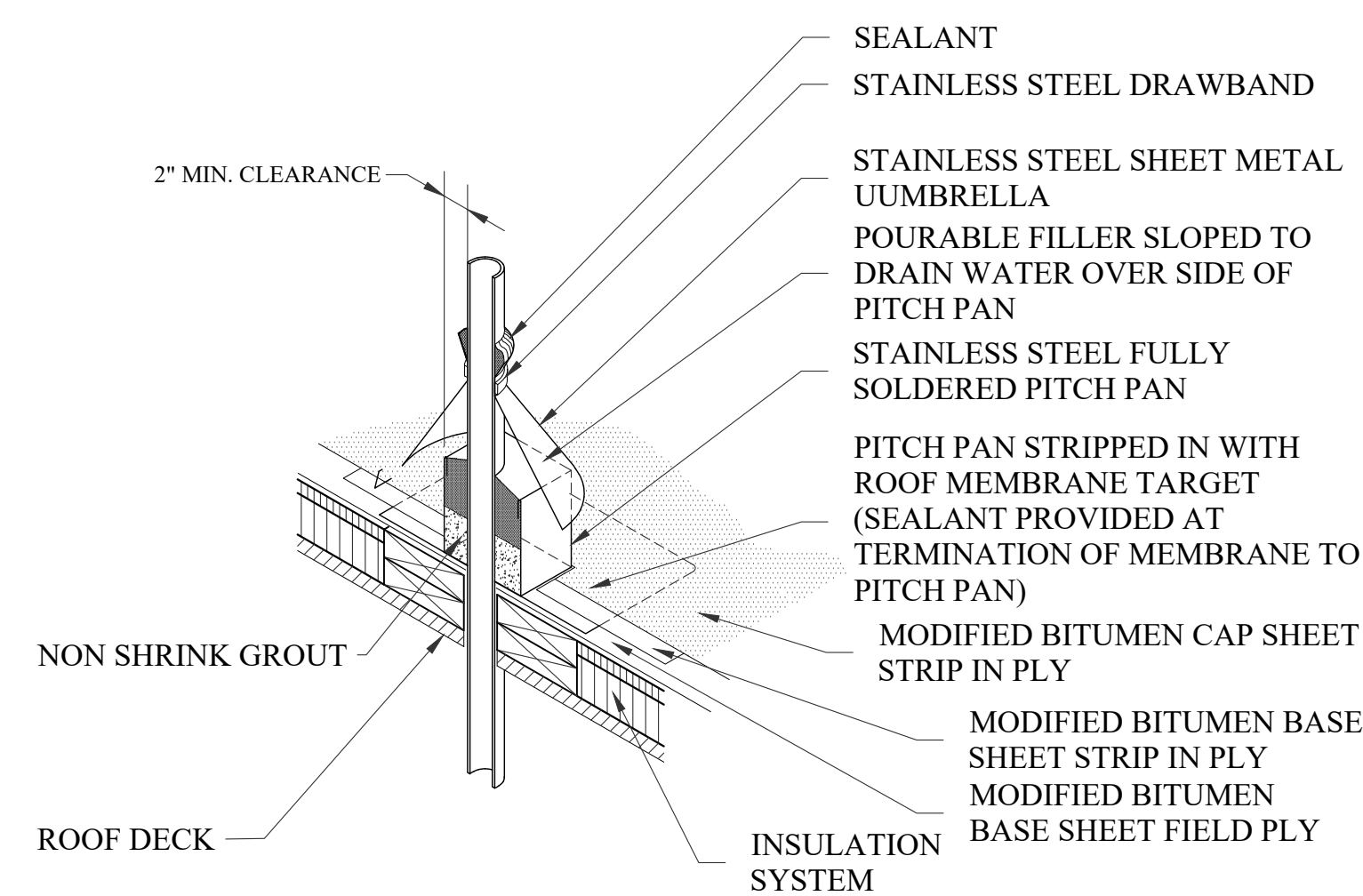
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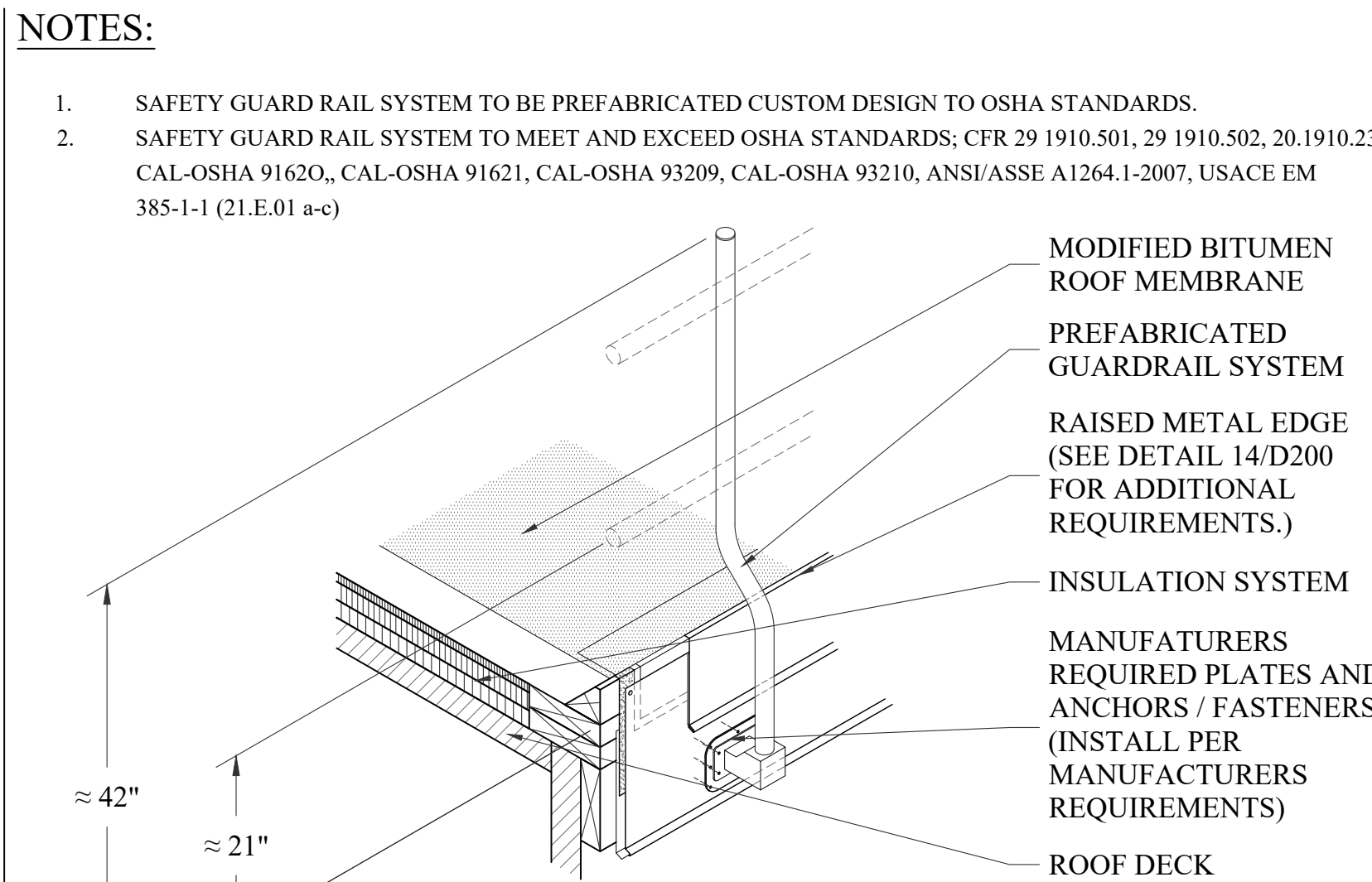
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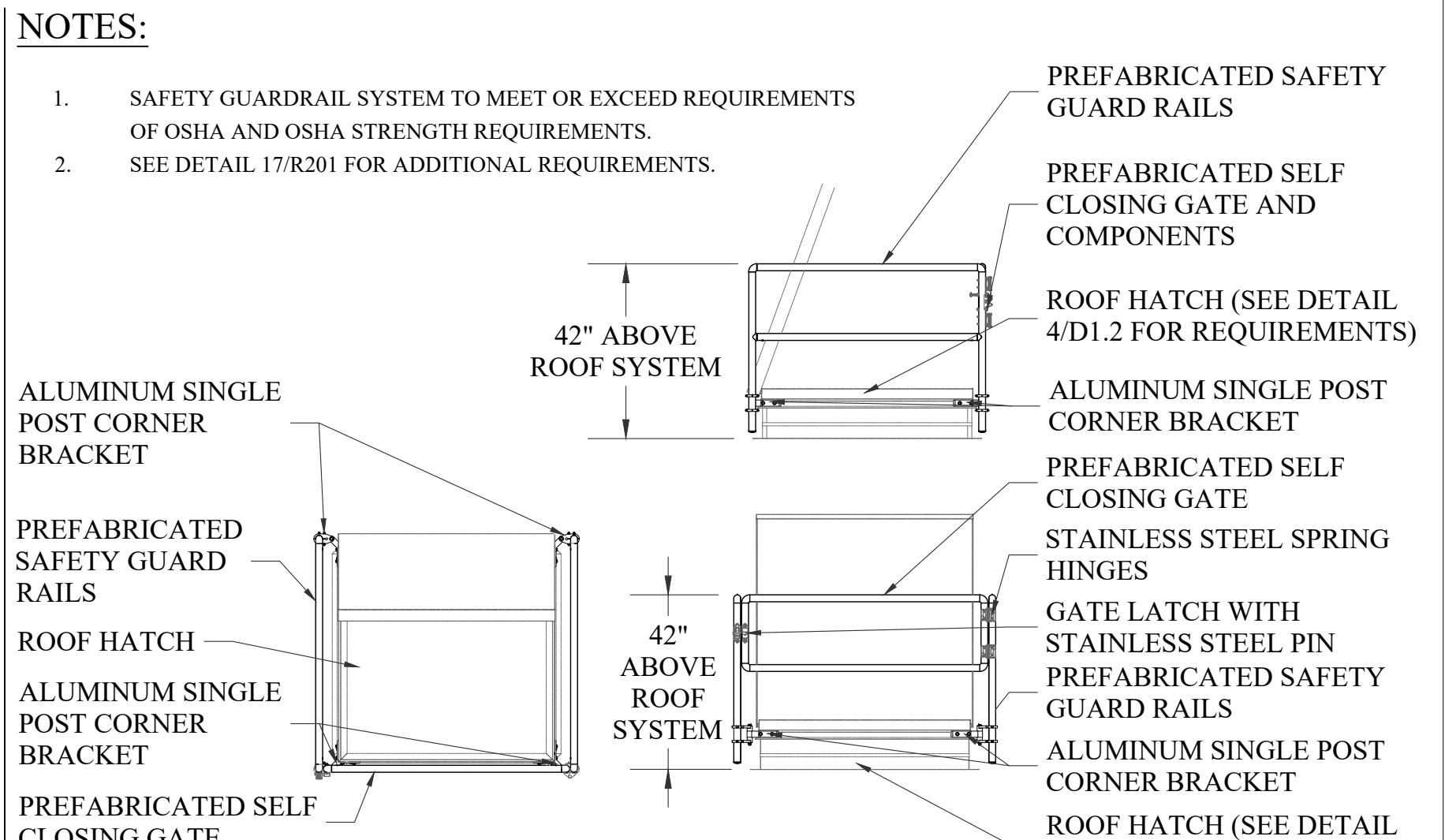
ROOF HATCH
DETAIL 17/R201



PITCH PAN
DETAIL 18/R201



FASCIA MOUNTED SAFETY GAURD RAIL SYSTEM
DETAIL 19/R201



ROOF ACCESS SAFETY GUARDRAIL SYSTEM
DETAIL 20/R201

NOTES:

- SAFETY GUARD RAIL SYSTEM TO BE PREFABRICATED CUSTOM DESIGN TO OSHA STANDARDS.
- SAFETY GUARD RAIL SYSTEM TO MEET AND EXCEED OSHA STANDARDS: CFR 29 1910.501, 29 1910.502, 20 1910.23, CAL-OSHA 91620, CAL-OSHA 91621, CAL-OSHA 93209, CAL-OSHA 93210, ANSI/ASSE A1264.1-2007, USACE EM 385-1-1 (2).E.01 a-c)

NOTES:

- SAFETY GUARDRAIL SYSTEM TO MEET OR EXCEED REQUIREMENTS OF OSHA AND OSHA STRENGTH REQUIREMENTS.
- SEE DETAIL 17/R201 FOR ADDITIONAL REQUIREMENTS.

DETAIL NOT USED
DETAIL 21/R201

DETAIL NOT USED
DETAIL 22/R201

DETAIL NOT USED
DETAIL 23/R201

DETAIL NOT USED
DETAIL 24/R201

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DETAIL NOT USED
DETAIL 32/R201

SHEET ISSUE:

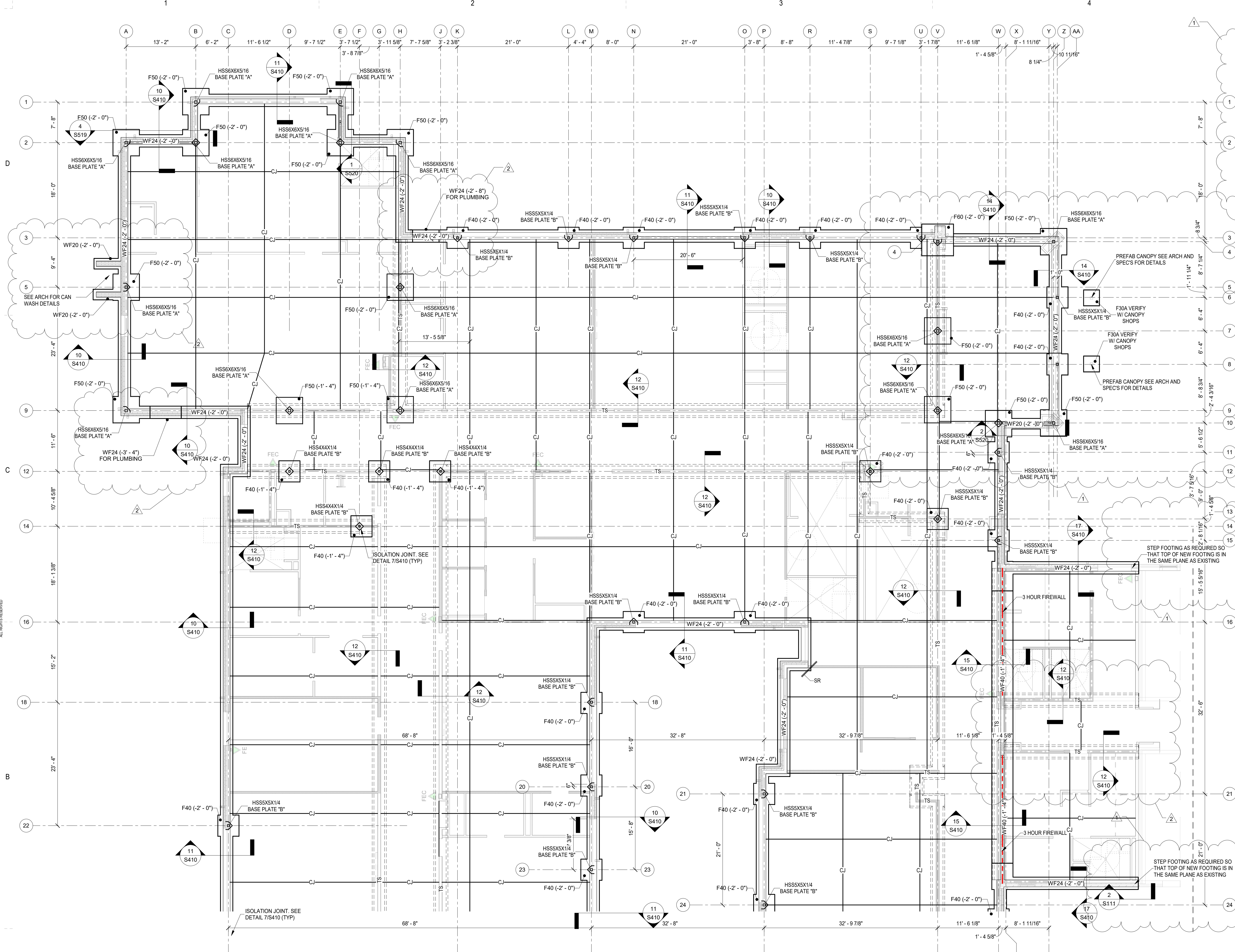
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	ADDENDUM NO. 1	DA
2	05/12/2021	ADDENDUM NO. 2	DA

CONSTRUCTION DOCUMENTS 4/19/2021
PRINCIPAL IN CHARGE: DA
PROJECT ARCHITECT: DLL
DRAWN BY: PSD

SHEET TITLE:
DETAILS

SHEET NO.
R201
PROJ. NO.
020063.00

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1 FOUNDATION PLAN - AREA 'A'
 1/8" = 1'-0"

PLAN NOTES:

1. MAIN FINISH FLOOR IS DATUM (0.00) FOOTING ELEVATION SHOWN ARE BELOW THIS LEVEL. WHERE NOT SHOWN OR NOTED, STEP FOOTING TO MAINTAIN 6" BELOW FINISH GRADE. INTERIOR FOOTING ELEVATION ARE SHOWN BELOW MAIN FINISH FLOOR ELEVATION (0.00).
2. TYPICAL FLOOR OR GRADE CONSTRUCTION = 4" CONCRETE SLAB REINFORCED WITH WVF 6X6 - W1.4X1/4 WIRE MESH UNLESS NOTED OTHERWISE.
3. STEP INTERIOR OR EXTERIOR FOOTINGS AS REQUIRED TO LET PLUMBING CROSS TOP OF FOOTING. SEE DETAIL 2/S410.
4. "SF" DENOTES STEP FOOTING. SEE DETAIL 3/S410.
5. "CJ" DENOTES CONSTRUCTION JOINT. SEE DETAIL 1/S410.
6. "TS" DENOTES THICKEN SLAB UNDER CMU WALLS. SEE DETAIL 12/S410.
7. "SR" DENOTES SLAB REINFORCING ADDED IN FLOOR SLAB AT CORNERS. SEE DETAIL 5/S410.
8. FOR SLAB BLOCKOUTS SEE DETAIL 6/S410 FOR REQUIRED SLAB REINFORCING.
9. SEE S101 FOR FOOTING SCHEDULE.
10. SEE DRAWING S610 FOR REINFORCED MASONRY WALL REINFORCING DETAILS.
11. --- INDICATES 3 HOUR RATED FIREWALL.
12. SEE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS NOT SHOWN OR NOTED.
13. SEE DRAWING S610 FOR ALL APPROVED ANCHORS FOR POST INSTALLED ANCHORS IN CONCRETE AND MASONRY.

FOOTING SCHEDULE

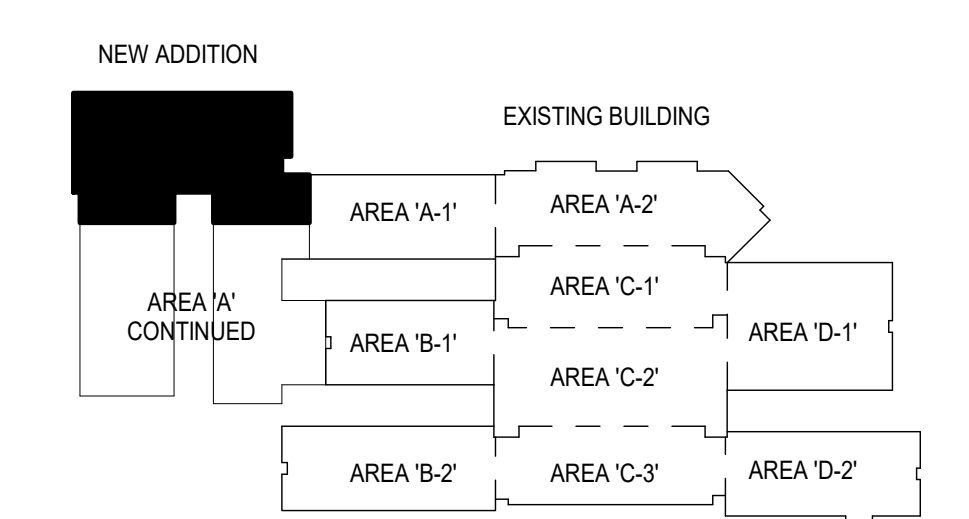
MARK	SIZE	THICKNESS	REINFORCING EACH WAY
F30A	3'-0" X 3'-0"	24"	6 #5
F40	4'-0" X 4'-0"	12"	4 #5
F50	5'-0" X 5'-0"	12"	5 #5
F60	6'-0" X 6'-0"	14"	7 #5
WF20	2'-0" CONT.	12"	3 #5 CONT. #4 @ 32" OC TRANSVERSE
WF24	2'-4" CONT.	12"	3 #5 CONT. #4 @ 32" OC TRANSVERSE
WF40	4'-0" CONT.	12"	4 #5 CONT. #4 @ 32" OC TRANSVERSE

ABBREVIATION SCHEDULE

BP	BEARING PLATE
BBE	BOND BEAM ELEVATION
BLE	BOTTOM LINTEL ELEVATION
BPE	BOTTOM PLATE ELEVATION
CBE	COLUMN BEARING ELEVATION
CJ	SLAB CONTROL JOINT
JBE	JOIST BEARING ELEVATION
JH	JOIST HEADER (DETAIL 12/S410)
SC	SHOP CAMBER
SB	SPECIAL BENT (DOUBLE PITCH)
SF	STEP FOOTING
SR	SLAB REINFORCING
TBE	TOP BEAM ELEVATION
TCX	TOP CHORD EXTENSION
TWE	TOP WALL ELEVATION
TS	THICKEN SLAB

NOTE: NOT ALL ABBREVIATIONS ARE USED IN THIS PROJECT.

KEY PLAN



- GENERAL NOTES:**
1. IN CASE OF DISCREPANCY BETWEEN THE ARCHITECTURAL AND STRUCTURAL DRAWINGS, CONSULT WITH THE ARCHITECT FOR DIMENSIONS AND DETAILS NOT SHOWN. SEE THE ARCHITECTURAL DRAWINGS. VERIFY ALL MECHANICAL OPENINGS AND SUPPORTS WITH THE MECHANICAL EQUIPMENT, FIELD VERIFY ALL DIMENSIONS RELATED TO EXISTING CONSTRUCTION.
 2. DESIGN CRITERIA
 - A. BUILDING CODE: 2018 INTERNATIONAL BUILDING CODE
 - B. RISK CATEGORY: III
 - C. SEISMIC DESIGN DATA:
 - a. IMPORTANCE FACTOR: 1.25
 - b. $S_s = 0.262$
 - c. $S_D = 0.145$
 - d. SITE CLASS D, SEISMIC DESIGN CATEGORY C
 - e. DESIGN BASE SHEAR: 125 KIPS
 - f. SEISMIC RESPONSE COEFFICIENT: $C_s = 0.058$
 - g. BASIC SEISMIC FORCE RESISTING SYSTEM: SPECIAL STEEL CONCENTRICALLY BRACED FRAMES FOR SEISMIC RESISTANCE. $R = 6.0$
 - h. ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
 3. FOUNDATION DESIGN BASED ON A SUBSURFACE INVESTIGATION BY S&ME, INC., DATED FEBRUARY 17, 2021. (S&ME REPORT NO. 2021-003)
 4. ALLOWABLE BEARING PRESSURE = 3000 PSF
 5. STEP FOOTINGS AS REQUIRED TO LET UTILITIES PASS OVER FOOTINGS.
 6. CONCRETE: 28 DAY COMPRESSIVE STRENGTH SHALL BE AS FOLLOWS:
 - A. SLABS ON METAL DECK: 3000 PSI, 110 +/- 3 PCF
 - B. ALL OTHER CONCRETE: 3000 PSI, NORMAL WEIGHT
 7. CONCRETE REINFORCING STEEL:
 - A. ASTM A615, GRADE 60, EXCEPT WHERE REINFORCING IS SHOWN TO BE WELDED, USE ASTM A706 WELDABLE REINFORCING. DO NOT WELD OR TACK WELD ANY REINFORCING NOT SHOWN ON THE DRAWINGS TO BE WELDED.
 - B. DRAWINGS TO BE WELDED:
 - a. LAPS AND SPICES: 30" MINIMUM
 - b. LAP ALL BARS WITH CLASS B SPLICES UNLESS NOTED OTHERWISE.
 - c. PROVIDE CORNER BARS OF SAME SIZE AND SPACING AS HORIZONTAL REINFORCING AT ALL WALLS AND FOOTING INTERSECTIONS. LAP WITH CLASS B SPLICES.
 8. STRUCTURAL STEEL:
 - A. FABRICATION SHALL BE IN ACCORDANCE WITH AISC SPECIFICATIONS.
 - B. BOLTED CONNECTIONS: ASTM A325, 3/4" DIAMETER SINGLY-TIGHTENED, BEARING TYPE CONNECTIONS WITH THREADS IN THE SHEAR PLANE UNLESS NOTED OTHERWISE.
 - C. WELDED CONNECTIONS: E70XX ELECTRODES, ELECTRODES USED FOR WELDING A992 STEEL SHALL BE LOW HYDROGEN ELECTRODES. ALL WELDS IN MOMENT CONNECTIONS (INCLUDING SHEAR TABS AND STIFFENER PLATES) SHALL BE MADE WITH A WELD METAL WITH A MINIMUM CHARPY V NOTCH TOUGHNESS OF 20 FT-LBS. AT MINUS 20 DEGREES F AND 40 FT-LBS AT 70 DEGREES F.
 9. FIRE PROTECTION:
 - A. FIRE PROTECTION FOR STRUCTURAL MEMBERS SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS AND ARCHITECTURAL DRAWINGS.
 - B. CONTRACTOR SHALL INCREASE FIRE PROTECTION THICKNESS AS REQUIRED BY THE UL FORMULA FOR BEAMS SMALLER THAN THE MINIMUM BEAM SIZE LISTED IN THE APPLICABLE UL ASSEMBLY. CLASSIFICATION = RESTRAINED.
 10. STEEL JOISTS:
 - A. JOISTS SHALL BE INSTALLED AND BRIDGED IN ACCORDANCE WITH SJI SPECIFICATIONS. IN ADDITION TO STANDARD SJI BRIDGING, PROVIDE A SINGLE LINE OF BOTTOM CHORD BRIDGING FOR UPLIFT AT THE FIRST BOTTOM CHORD PANEL POINT AT EACH END OF JOISTS.
 - B. ALL JOISTS SHALL BE DESIGNED FOR THE ADDITIONAL BENDING STRESSES RESULTING FROM A 300 POUND CONCENTRATED LOAD LOCATED AT ANY LOCATION ALONG THE TOP AND BOTTOM CHORD. THE 300 POUND LOAD IS ALREADY ACCOUNTED FOR IN THE JOIST DESIGNATIONS SHOWN ON THE DRAWINGS UNLESS NOTED OTHERWISE AND SHALL BE APPLIED CONCURRENTLY WITH THE BALANCE OF THE STANDARD SJI SERVICE LOAD.
 - C. ALL ROOF JOISTS SHALL BE DESIGNED FOR A NET UPLIFT OF 20 PSF.
 - D. JOISTS SHALL BE DESIGNED FOR ANY SPECIAL LOADS SHOWN ON THE DRAWINGS.
 11. STEEL DECK:
 - A. ROOF DECK SHALL BE 1 1/2" 22 GAGE TYPE B (WIDE RIB) GALVANIZED STEEL DECK IN 36" WIDE SHEETS. MINIMUM SECTION MODULUS = 0.186 INCHES³.
 - B. FLOOR DECK SHALL BE 3" 18 GAGE GALVANIZED COMPOSITE STEEL DECK. MINIMUM SECTION MODULUS = 0.830 INCHES³. MINIMUM MOMENT OF INERTIA = 1.305 INCHES⁴.
 12. LIGHT GAGE METAL FRAMING:
 - A. EXTERIOR WALL STUDS SHALL BE 6" 18 GAGE MINIMUM GALVANIZED STUDS WITH 1.58" FLANGES. STUDS, HEADERS OVER OPENINGS, SILLS UNDER OPENINGS, JAMB STUDS, AND CONNECTIONS TO THE STRUCTURE SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN SOUTH CAROLINA FOR THE DESIGN CRITERIA IN GENERAL NOTE 2 ABOVE. SHOP DRAWINGS AND CALCULATIONS FOR LIGHT GAGE METAL FRAMING AND ITS CONNECTIONS SHALL BE PREPARED AND SUBMITTED UNDER THE SEAL OF AN ENGINEER REGISTERED IN SOUTH CAROLINA.
 - B. EXTERIOR WALL STUDS SHALL BE 8" 16 GAGE GALVANIZED STUDS WITH 1.58" FLANGES. MINIMUM SECTION MODULUS = 0.653 INCHES³. MINIMUM MOMENT OF INERTIA = 2.860 INCHES⁴.
 - C. PROVIDE DOUBLE STUDS AT JAMBS OF OPENINGS 5' WIDE OR LESS. PROVIDE TRIPLE STUDS AT JAMBS OF OPENINGS WIDER THAN 5'.
 - D. TRACKS SHALL BE 18 GAGE ATTACH TO STEEL WITH 0.145" DIAMETER POWER DRIVEN FASTENERS @ 16" OC. FASTENERS MUST PENETRATE CONCRETE A MINIMUM OF 1 1/8"
 13. LIGHT GAGE METAL ROOF TRUSSES:
 - A. ALL LIGHT GAGE METAL ROOF TRUSSES, TRUSS-TO-TRUSS CONNECTIONS, AND TRUSS-TO-STRUCTURE CONNECTIONS SHALL BE DESIGNED BY AN ENGINEER REGISTERED IN SOUTH CAROLINA FOR THE DESIGN CRITERIA IN GENERAL NOTE 2, ANY OTHER LOADS SHOWN ON THE DRAWINGS, AND THE FOLLOWING LOADS:
 - a. TOP CHORD DEAD LOAD: 15 PSF
 - b. TOP CHORD LIVE LOAD: 20 PSF
 - c. BOTTOM CHORD DEAD LOAD: 10 PSF
 - d. BOTTOM CHORD LIVE LOAD: 10 PSF (NOT CONCURRENT WITH OTHER LIVE LOADS)
 - e. BOTTOM CHORD LIVE LOAD AT ATTIC FLOOR: 50 PSF
 - B. TRUSS MANUFACTURER SHALL SUBMIT COMPLETE TRUSS SHOP DRAWINGS SHOWING MATERIAL STRESSES, CONNECTIONS, BRACING, AND ERECTION DETAILS FOR REVIEW BEFORE TRUSSES ARE FABRICATED. BRACING SHOWN ON THE DRAWINGS IS IN ADDITION TO ANY BRACING REQUIRED BY THE TRUSS DESIGNER.
 - C. ALL ROOF FRAMING MEMBERS TO WHICH ROOF DECKING WILL BE ATTACHED SHALL BE MINIMUM 18 GAGE THICKNESS.
 - D. TRUSS SUPPLIER SHALL SPECIFY AND PROVIDE ALL TRUSS-TO-TRUSS AND TRUSS-TO-STRUCTURE CONNECTIONS.
 14. REINFORCED MASONRY: SEE DRAWING S610.
 - A. CONCRETE MASONRY UNITS: ASTM C90, GRADE N, LIGHTWEIGHT.
 - B. GROUT: 2500 PSI COARSE GROUT IN ACCORDANCE WITH ASTM C476, WITH 8" TO 11" SLUMP. GROUT ALL CELLS WHICH CONTAIN REINFORCEMENT OR WHICH ARE BELOW FINISH FLOOR OR FINISH GRADE.
 - C. MORTAR: TYPE S IN ACCORDANCE WITH ASTM C270, USING MORTAR CEMENT. MASONRY CEMENT IS NOT PERMITTED IN REINFORCED MASONRY WALLS.
 - D. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60, EXCEPT WHERE REINFORCING IS SHOWN TO BE WELDED. USE ASTM A706 WELDABLE REINFORCING. DO NOT WELD OR TACK WELD ANY REINFORCING NOT SHOWN ON THE DRAWINGS TO BE WELDED.
 - E. LAP ALL #4 BARS 2'-0", LAP ALL #5 BARS 2'-7".
 - F. POST INSTALLED ANCHORS INSTALLED IN MASONRY OR HARDENED CONCRETE SHALL BE SHOWN IN THE TABLES ON S610.

mcmillan pazdan smith ARCHITECTURE

JOHNSON & KING ENGINEERS
 1223 Elmwood Avenue, Columbia, SC 29201
 803.779.8831, 803.779.8831

JOHNSON & KING ENGINEERS
 No. 23150
 5.12.21
 LEE M. JOHNSON, P.E.

SPARTANBURG COUNTY SCHOOL DISTRICT 17
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 155 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA, 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	4.29.2021	Addendum No. 1	LWK
2	5.12.2021	Addendum No. 2	LWK

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: LWK
 PROJECT ENGINEER: JLM
 DRAWN BY: LWK

SHEET TITLE:
FOUNDATION PLAN - AREA 'A'

SHEET NO. PROJECT NO.
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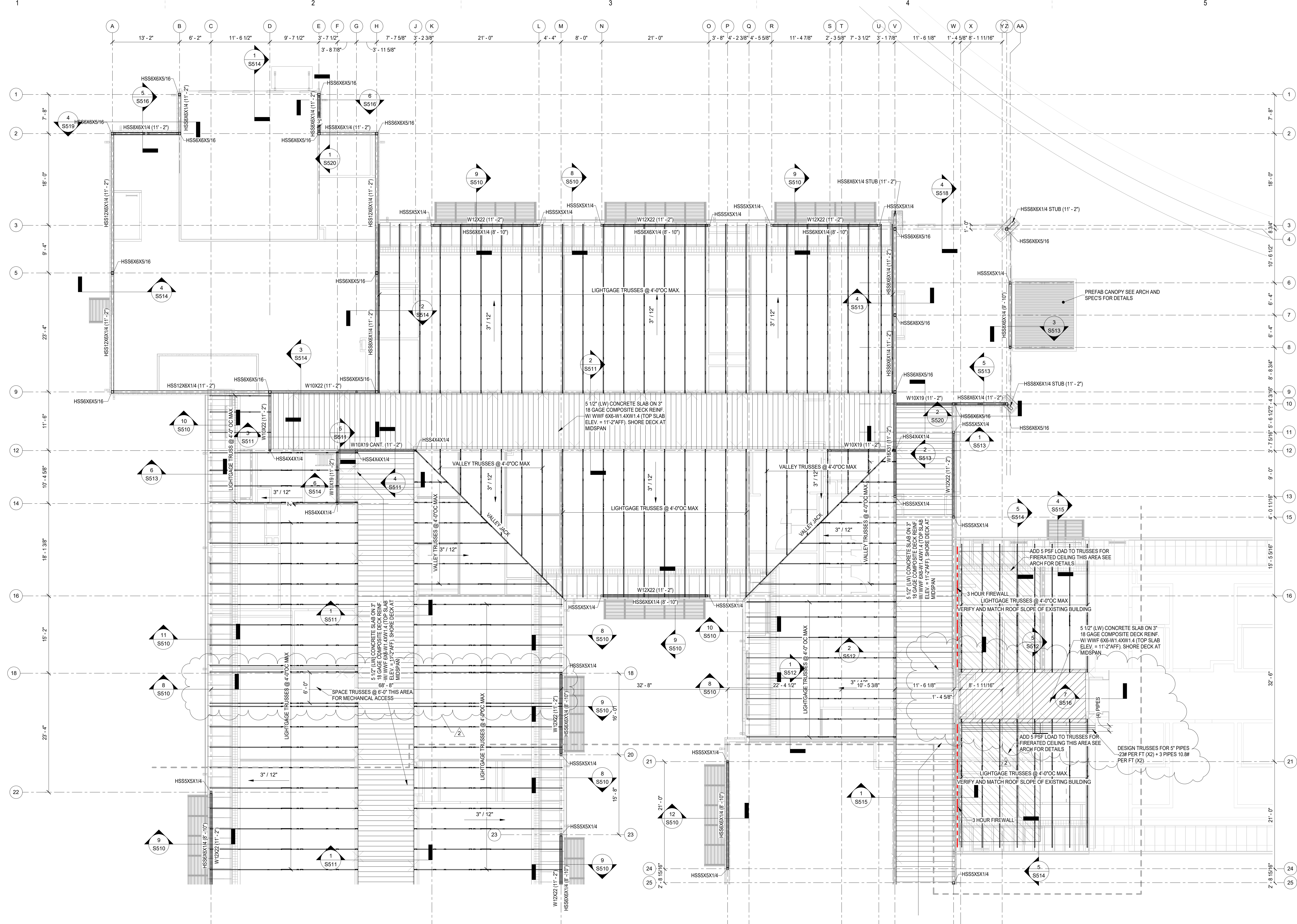
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NO.	DATE	DESCRIPTION	BY
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CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: LWK
PROJECT ENGINEER: JLM
DRAWN BY: LWK

SHEET TITLE:
MECHANICAL PLATFORM
PLAN - AREA 'A'

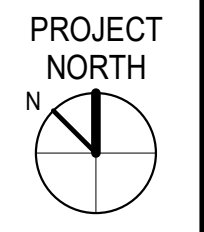
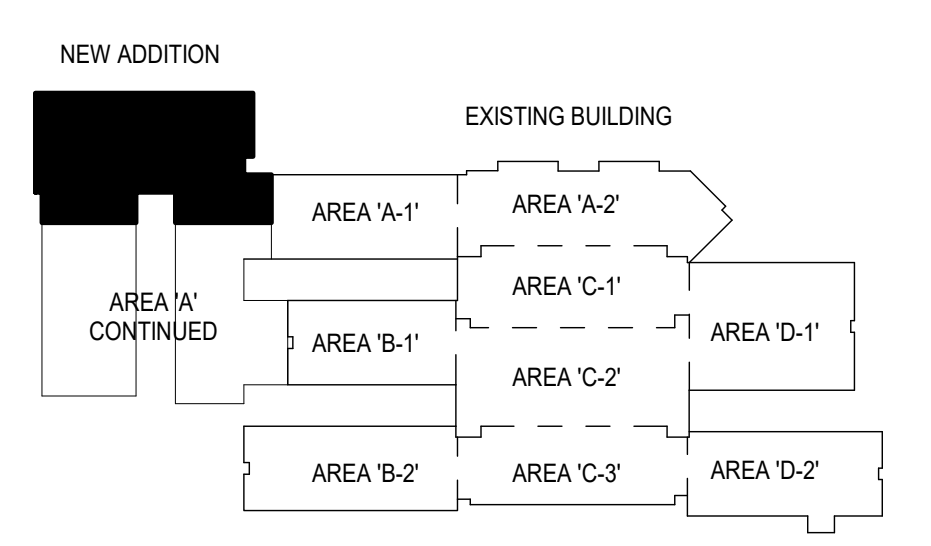
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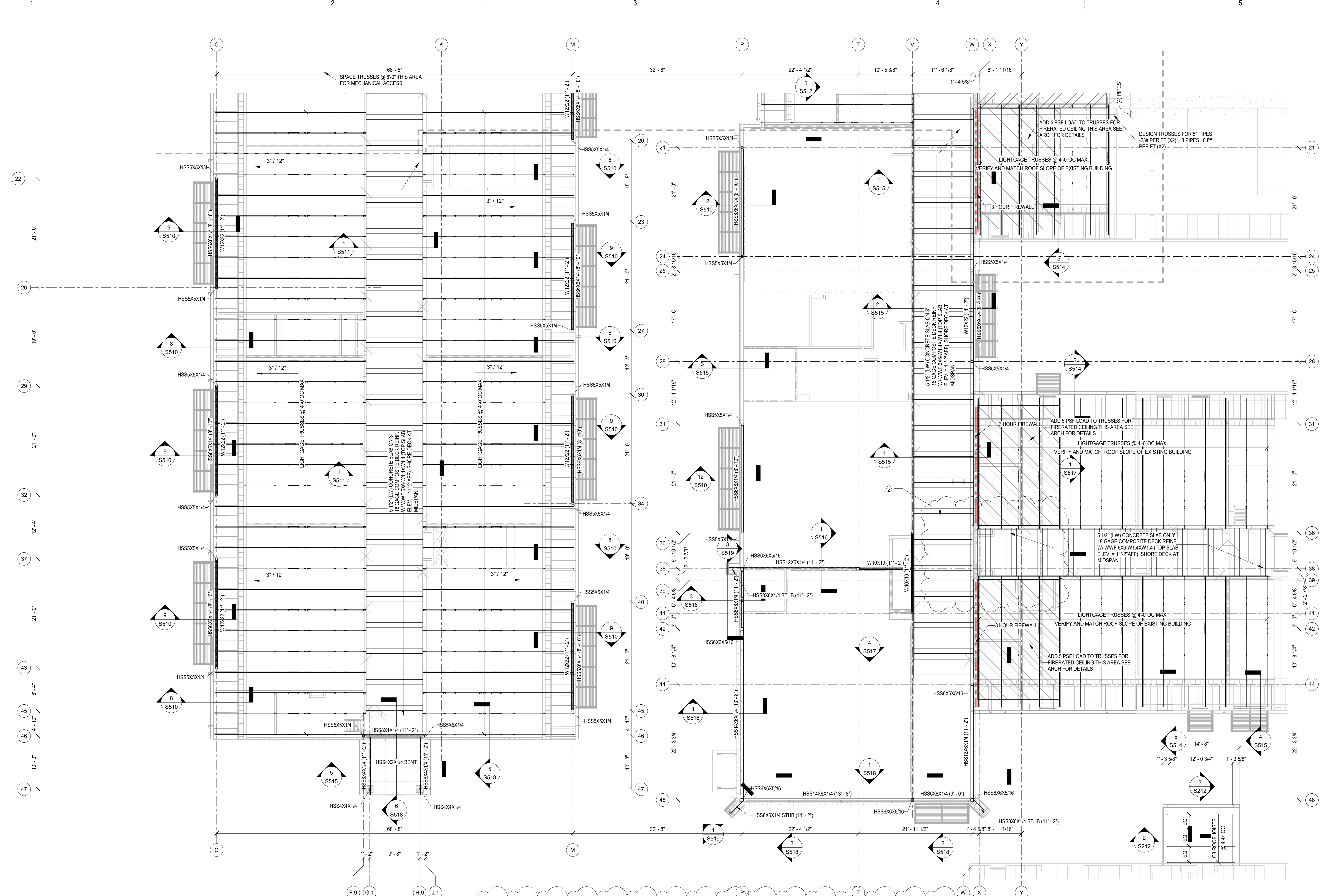
1 MECHANICAL PLATFORM PLAN - AREA 'A'
S210 1/8" = 1'-0"

NOTES:
1. FLOOR CONSTRUCTION IS A 5 1/2" LIGHTWEIGHT CONCRETE SLAB ON 3" 18 GAGE COMPOSITE FLOOR DECK REINFORCED WITH 6X6 - W14XW14 WIRE MESH.
2. ELEVATED SLAB BLOCKOUTS TO BE REINFORCED AS SHOWN IN DETAIL 7S410
3. REFER TO DRAWING S510 FOR GENERAL NOTES
4. REFER TO DRAWING S610 FOR CONCRETE AND MASONRY POST INSTALLED ANCHORS.

KEY PLAN



S210



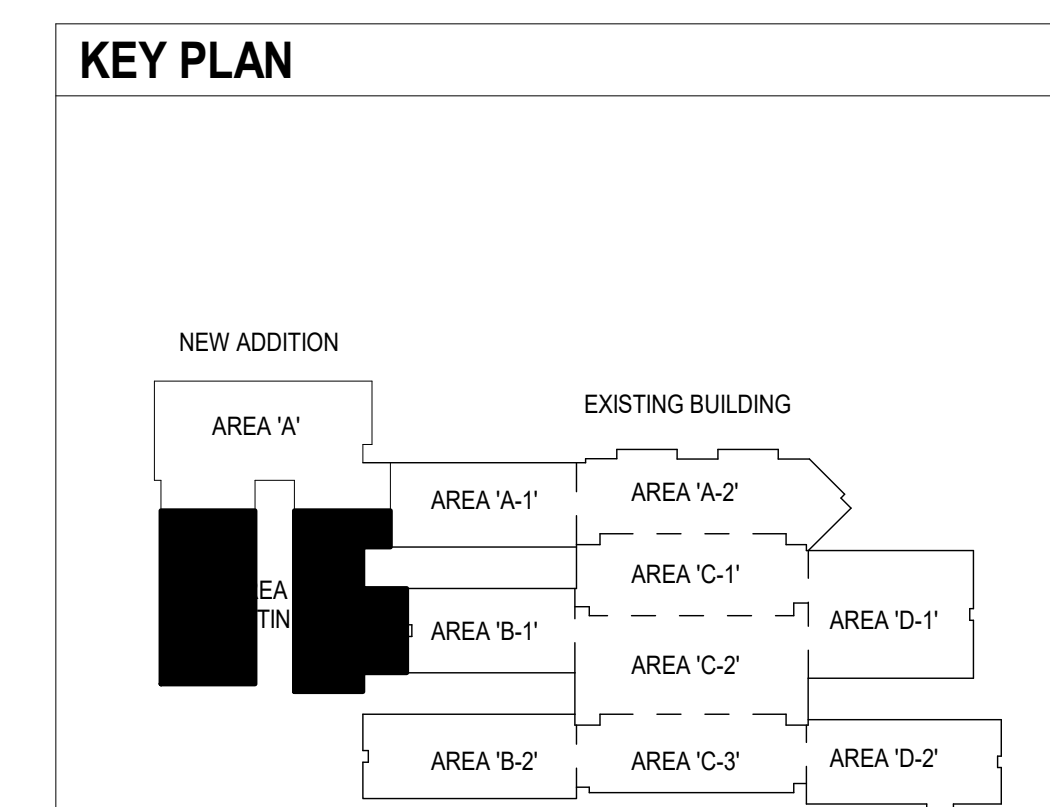
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S211

1/8" = 1'-0"

NOTES

- FLOOR CONSTRUCTION IS A 5 1/2" LIGHTWEIGHT CONCRETE SLAB ON 3" 18 GAGE COMPOSITE FLOOR DECK REINFORCED WITH 6X8 - W14XW.14 WIRE MESH.
- ELEVATED SLAB BLOCKOUTS TO BE REINFORCED AS SHOWN IN DETAIL 7/8410
- REFER TO DRAWING S110 FOR GENERAL NOTES
- REFER TO DRAWING S810 FOR CONCRETE AND MASONRY POST INSTALLED ANCHORS.



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

JOHNSON & KING ENGINEERS
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1223 Elmwood Avenue
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803.779.8831
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SEALS

Professional Engineer Seal for Johnson & King Engineers, No. 0165, State of South Carolina.

Professional Engineer Seal for Lee M. ... No. 23150, State of South Carolina.

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
2	5.12.2021	Addendum No. 2	LWK

CONSTRUCTION DOCUMENTS 04/19/2021

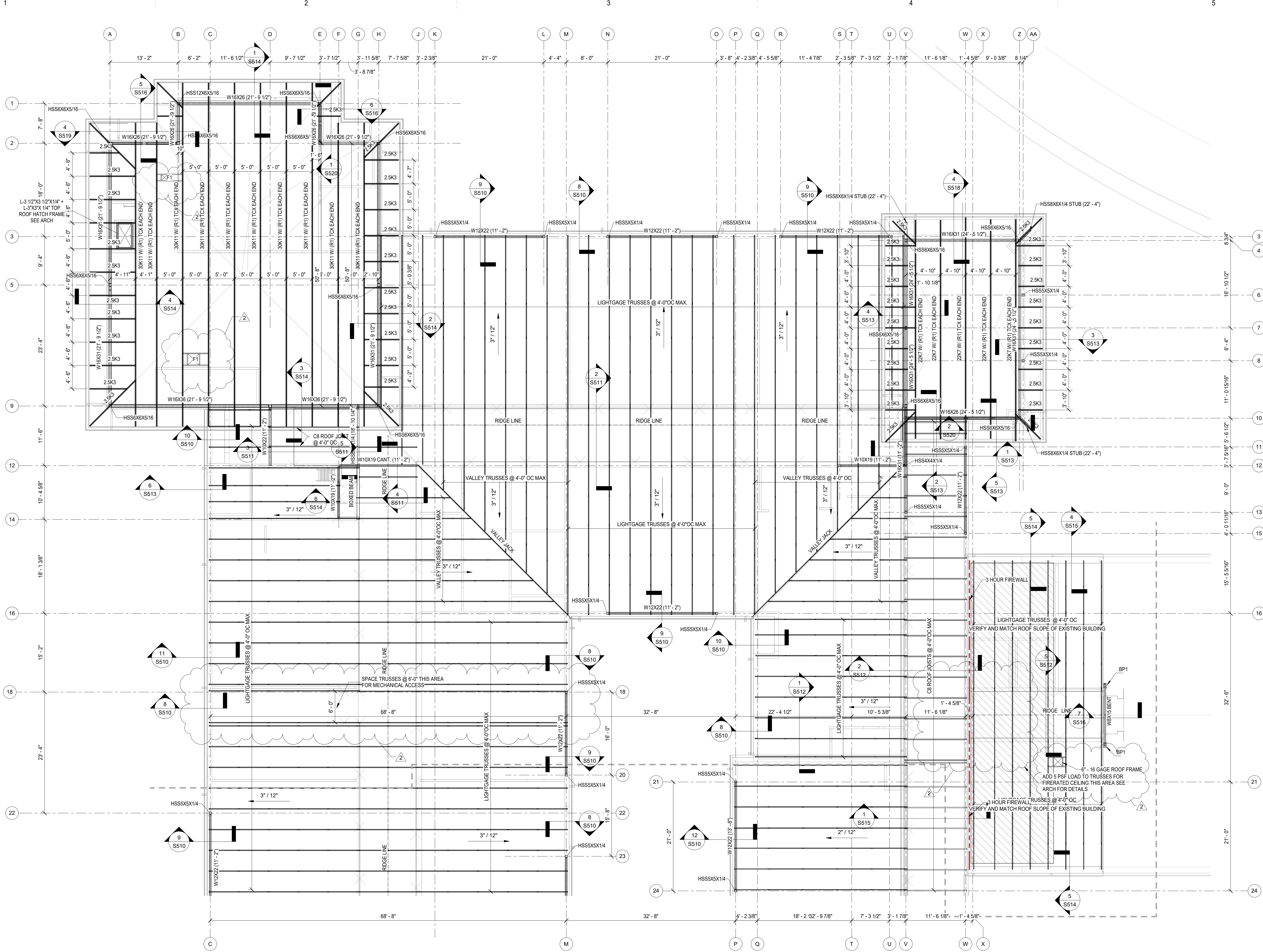
PRINCIPAL IN CHARGE: LWK
PROJECT ENGINEER: JLM
DRAWN BY: LWK

SHEET TITLE:
MECHANICAL PLATFORM PLAN - AREA 'A' CONTINUED

SHEET NO. PROJ. NO. 020063.00

S211

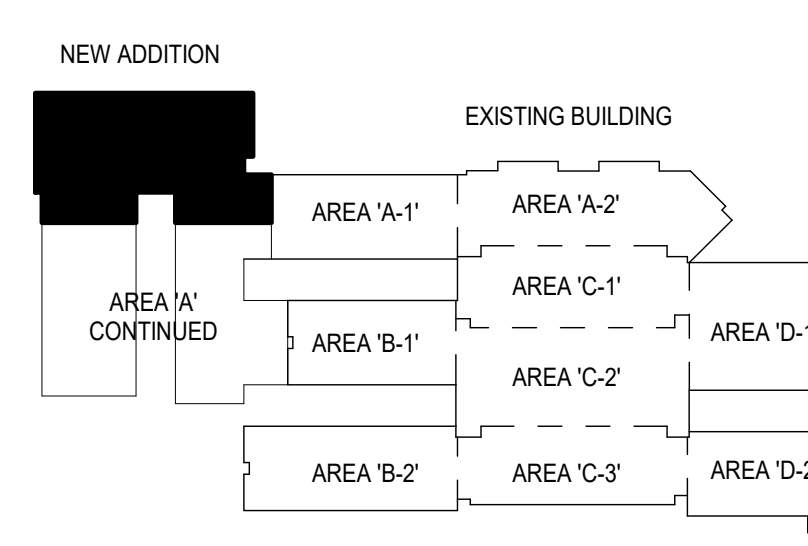
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1 ROOF FRAMING PLAN - AREA 'A'
 S310 1/8" = 1'-0"

- PLAN NOTES:**
1. PROVIDE FRAME F1 = L 2X2X1/4, F2 = L 3X3X1/4, F3 = 5X3X3/8 OR F4 = L 7X4X3/8 (SEE DETAIL 3/SS10) AROUND ALL PENETRATIONS THRU ROOF. REFER TO MECHANICAL OR PLUMBING DRAWINGS FOR LOCATIONS.
 2. REFER TO DETAIL 4/SS10 FOR LOADS HUNG FROM JOISTS.
 3. REFER TO DRAWING S310 FOR GENERAL NOTES.
 4. REFER TO DRAWING S510 FOR MASONRY WALL REINFORCING DETAILS.
 5. PROVIDE ANGLE FRAME AS SHOWN IN DETAIL 3/SS10 FOR ALL ROOF PENETRATIONS OVER 6" DIAMETER INCLUDING ROOF DRAINS.
 6. REFER TO DRAWING S510 FOR Lintel SCHEDULE. PROVIDE Lintels FOR LENGTHS AS SHOWN IN SCHEDULE FOR ALL MECHANICAL AND OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL OPENING SIZES TO BE VERIFIED WITH ARCHITECTURAL OR MECHANICAL DRAWINGS BEFORE FABRICATING Lintels.
 7. REFER TO DRAWING S510 FOR CONCRETE AND MASONRY POST INSTALLED ANCHORS.
 8. REFER TO DETAIL 6/SS10 FOR TYPICAL BEAM CONNECTION SCHEDULE.

KEY PLAN



SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
2	5.12.2021	Addendum No. 2	LWK

SHEET ISSUE:

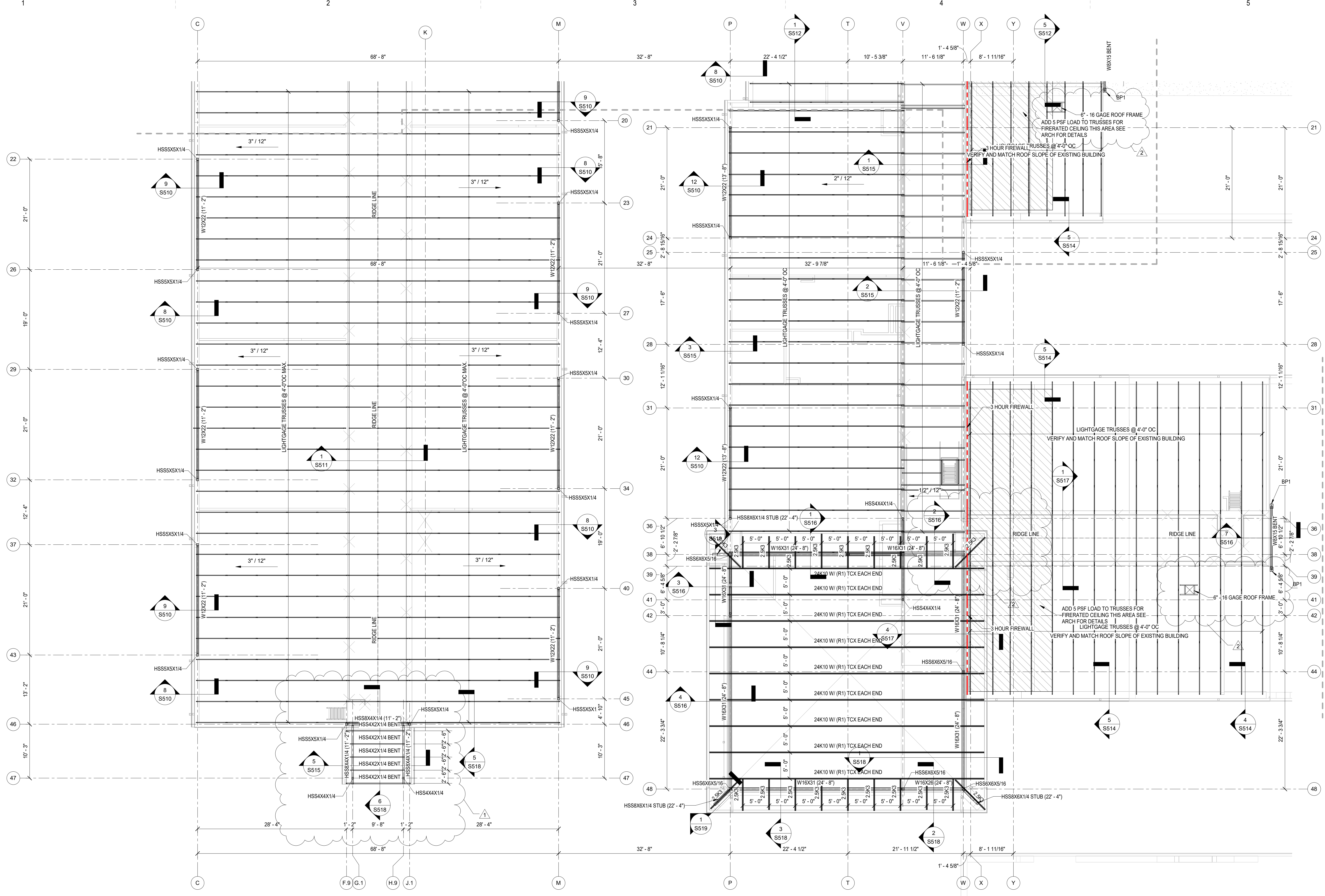
NO.	DATE	DESCRIPTION	BY
1	4.29.2021	Addendum No. 1	LWK
2	5.12.2021	Addendum No. 2	LWK

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: LWK
PROJECT ENGINEER: JLM
DRAWN BY: LWK

SHEET TITLE:
ROOF FRAMING PLAN -
AREA 'A' CONTINUED

SHEET NO. PROJ. NO.
020063.00

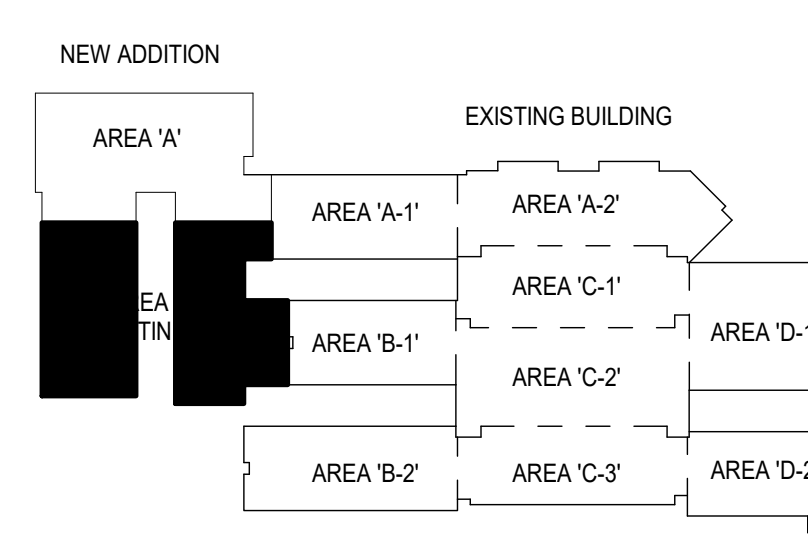
S311



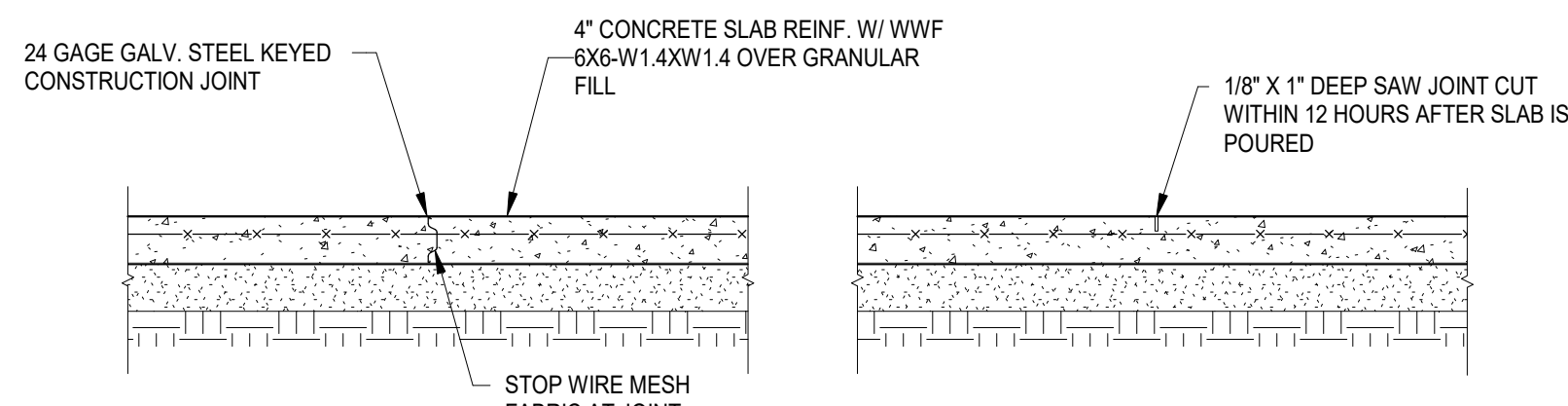
1 ROOF FRAMING PLAN - AREA 'A' CONTINUED
S311 1/8" = 1'-0"

- PLAN NOTES:
1. PROVIDE FRAME F1 = L 2XX1/4, F2 = L 3XX1/4, F3 = 5XX3/8 OR F4 = L 7XX3/8 (SEE DETAIL 3/S510) AROUND ALL PENETRATIONS THRU ROOF. REFER TO MECHANICAL OR PLUMBING DRAWINGS FOR LOCATIONS.
 2. REFER TO DETAIL 4/S510 FOR LOADS HUNG FROM JOISTS.
 3. REFER TO DRAWING S110 FOR GENERAL NOTES.
 4. REFER TO DRAWING S510 FOR MASONRY WALL REINFORCING DETAILS.
 5. PROVIDE ANGLE FRAME AS SHOWN IN DETAIL 3/S510 FOR ALL ROOF PENETRATIONS OVER 6" DIAMETER INCLUDING ROOF DRAINS.
 6. REFER TO DRAWING S510 FOR LATEL SCHEDULE. PROVIDE LATELS FOR LENGTHS AS SHOWN IN SCHEDULE FOR ALL MECHANICAL AND OPENINGS NOT SHOWN ON STRUCTURAL DRAWINGS. ALL OPENING SIZES TO BE VERIFIED WITH ARCHITECTURAL OR MECHANICAL DRAWINGS BEFORE FABRICATING LATELS.
 7. REFER TO DRAWING S510 FOR CONCRETE AND MASONRY POST INSTALLED ANCHORS.
 8. REFER TO DETAIL 6/S510 FOR TYPICAL BEAM CONNECTION SCHEDULE.

KEY PLAN

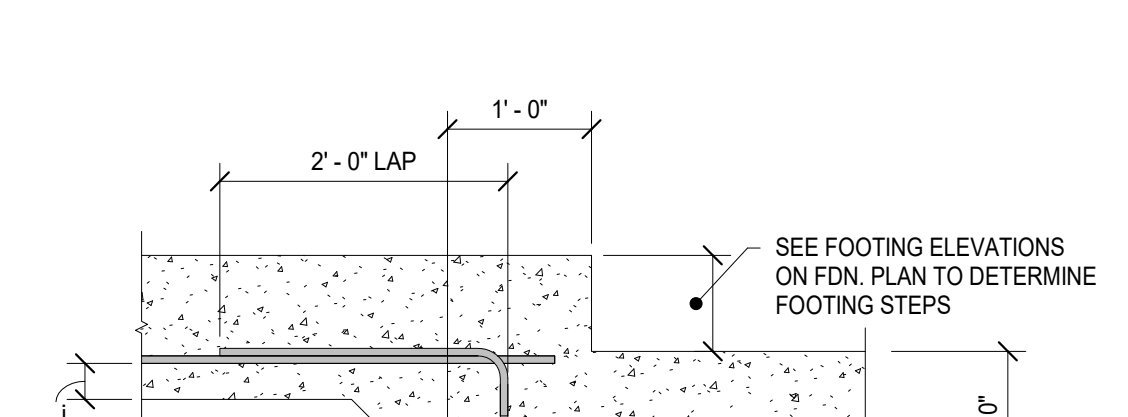


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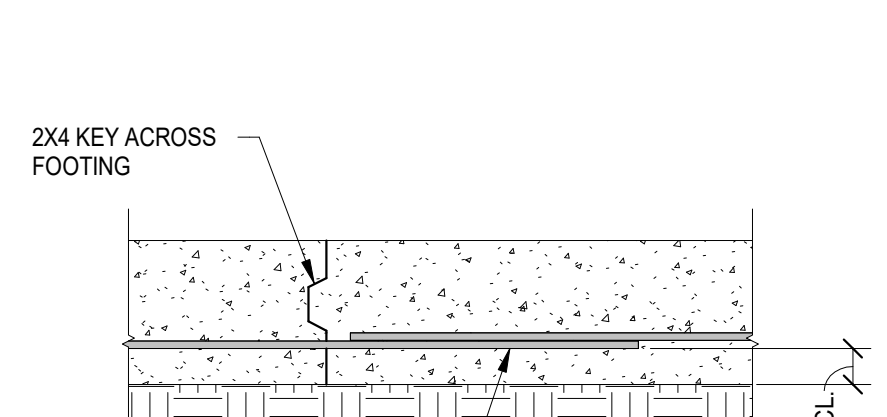
1 SLAB CONSTRUCTION DETAILS

S410 3/4" = 1'-0"
 NOTES:
 1. CONSTRUCTION JOINTS AND SAW JOINTS ARE NOTED "CJ" ON FOUNDATION PLAN.
 2. CONTRACTOR HAS THE OPTION OF WHERE TO PLACE CONSTRUCTION AND SAW JOINTS.



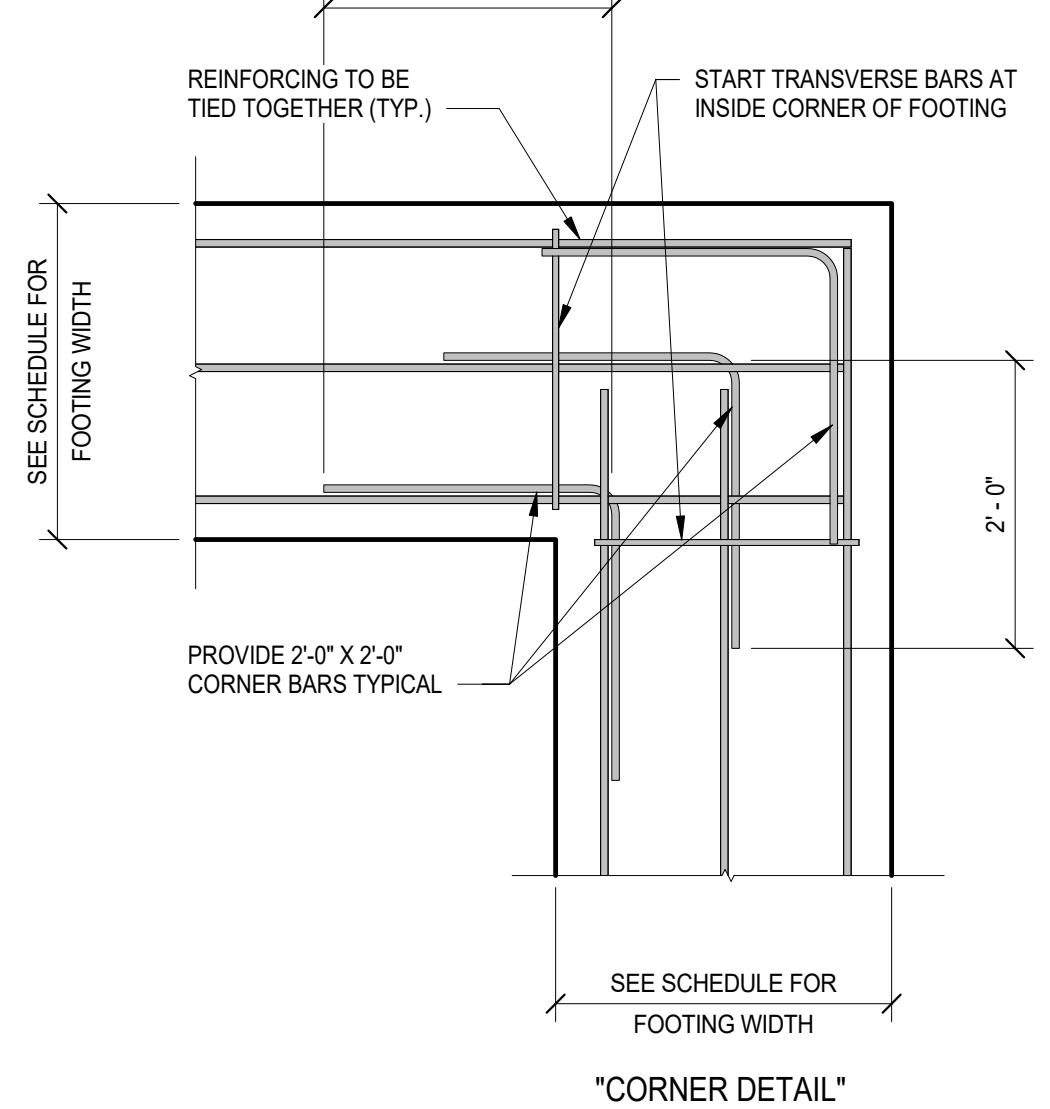
2 STEP FOOTING DETAIL

S410 3/4" = 1'-0"
 NOTES:
 1. SEE FOUNDATION PLAN FOR LOCATIONS OF FOOTING STEPS.
 2. IN CASES WHERE UTILITIES WOULD BE IN THE FOOTING, OR BELOW THE FOOTING WITH LESS THAN 8" OF EARTH BETWEEN THE BOTTOM OF FOOTING AND TOP OF UTILITY, PROVIDE ADDITIONAL STEPS AS REQUIRED TO LET UTILITIES PASS OVER TOPS OF FOOTINGS.



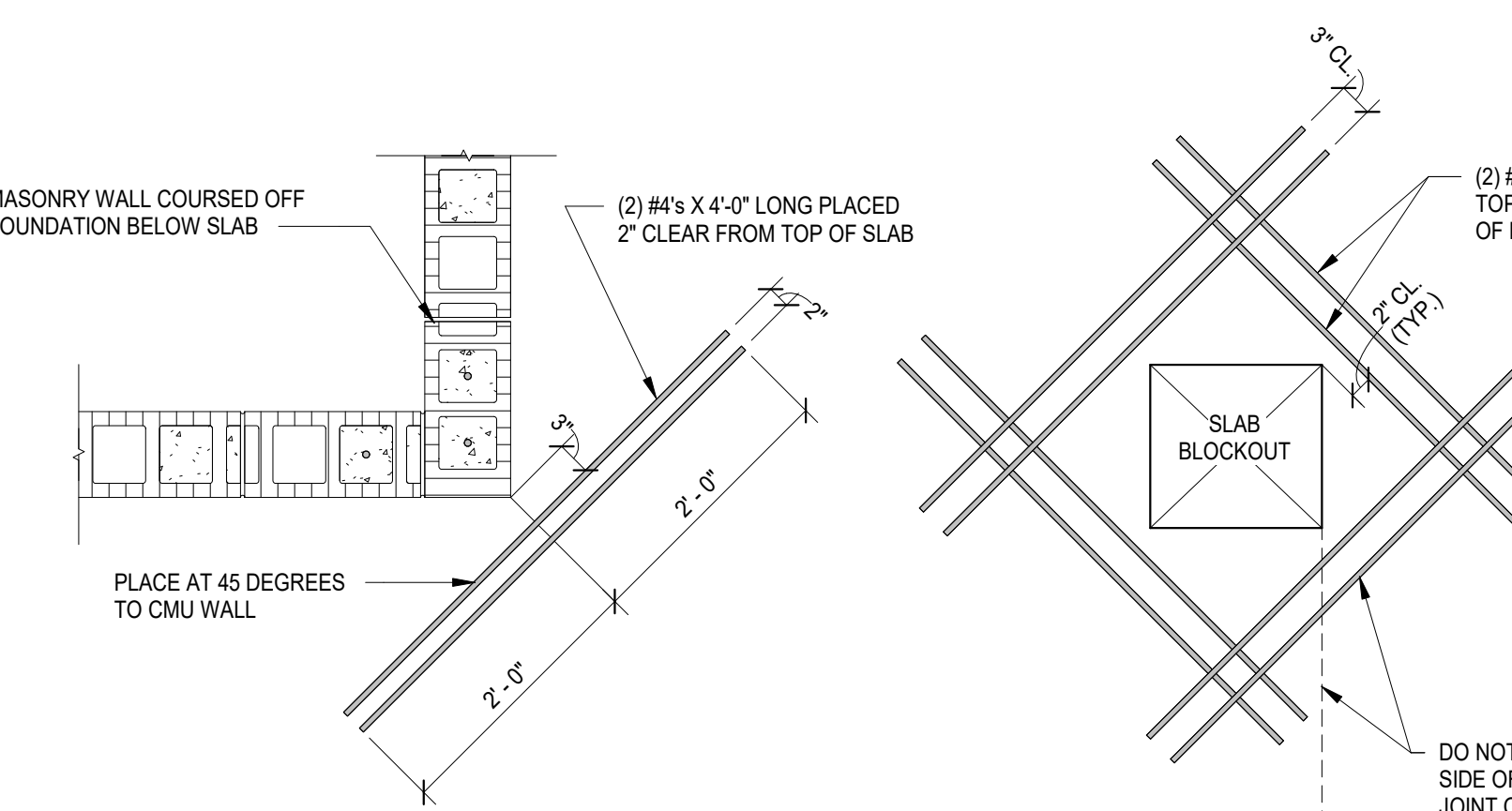
3 WALL FOOTING CONSTRUCTION JOINT DETAIL

S410 3/4" = 1'-0"
 NOTES:
 1. THIS DETAIL SHALL BE USED AT ALL LOCATIONS IN WALL FOOTINGS WHERE CONCRETE POURS ARE STOPPED.



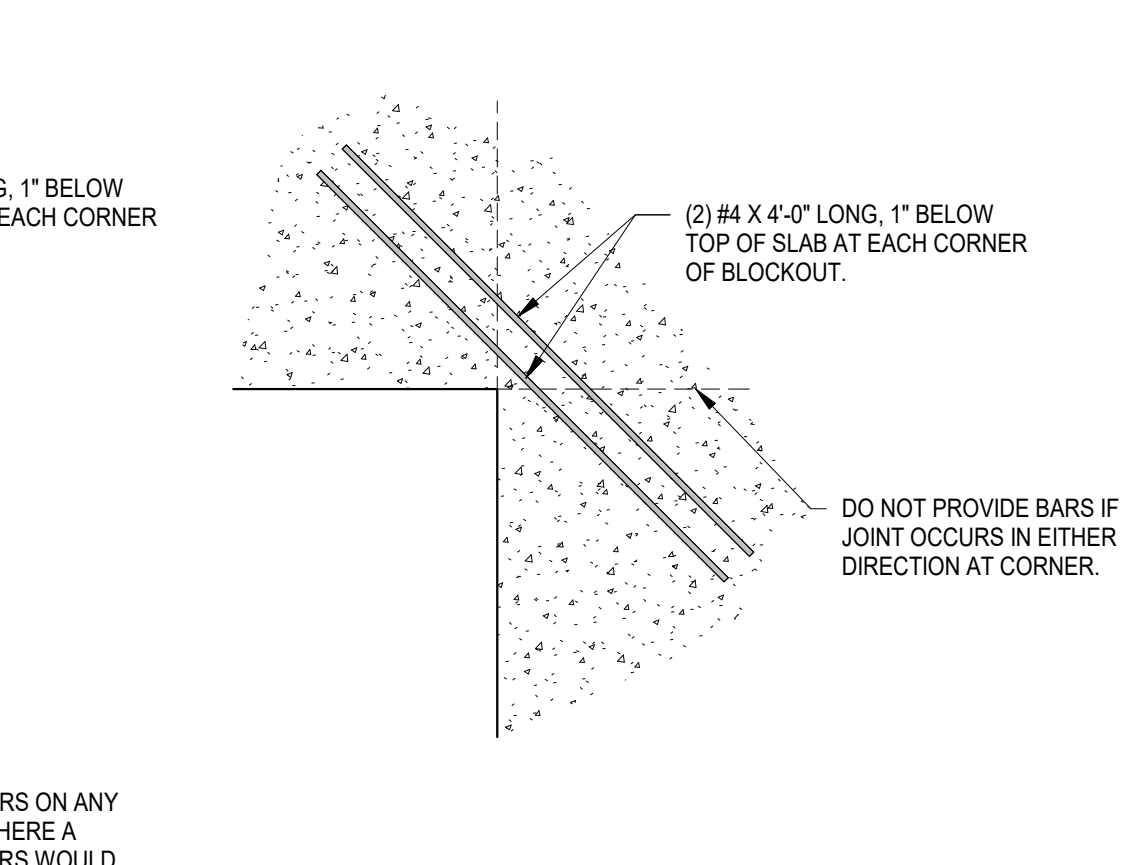
4 WALL FOOTING INTERSECTION/CORNER DETAIL

S410 3/4" = 1'-0"
 NOTES:
 1. THIS DETAIL SHALL BE USED WHERE ALL FOOTING CORNERS OR INTERSECTIONS OCCUR.



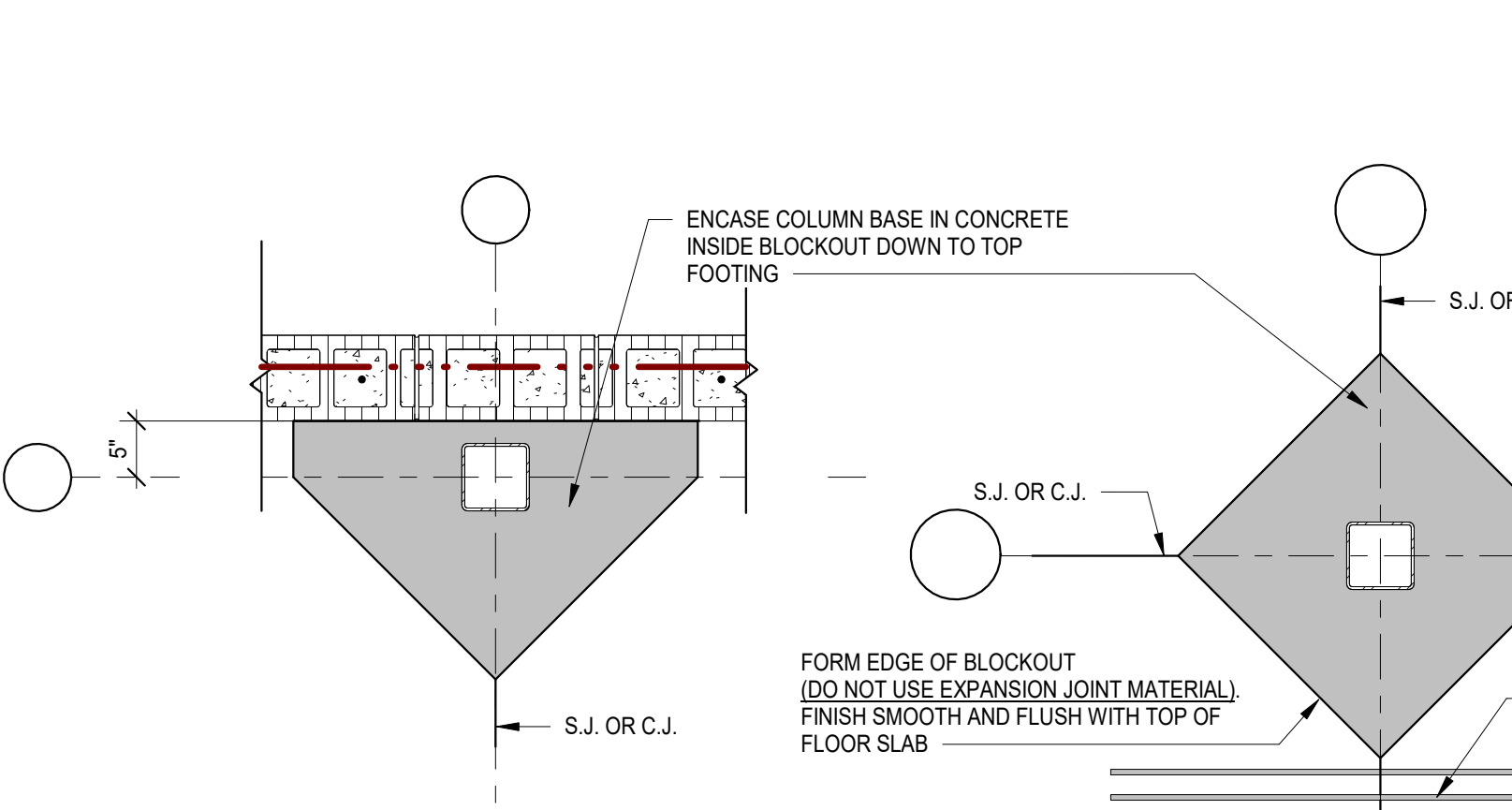
5 FLOOR SLAB REINFORCING DETAIL

S410 3/4" = 1'-0"
 NOTES:
 1. PROVIDE REINFORCING AS SHOWN FOR SLABS ON GRADE AT ALL WALL CORNERS OR DOOR OPENING WHERE FLOOR JOINTS DO NOT OCCUR. BARS ARE NOT TO CROSS FLOOR JOINTS.



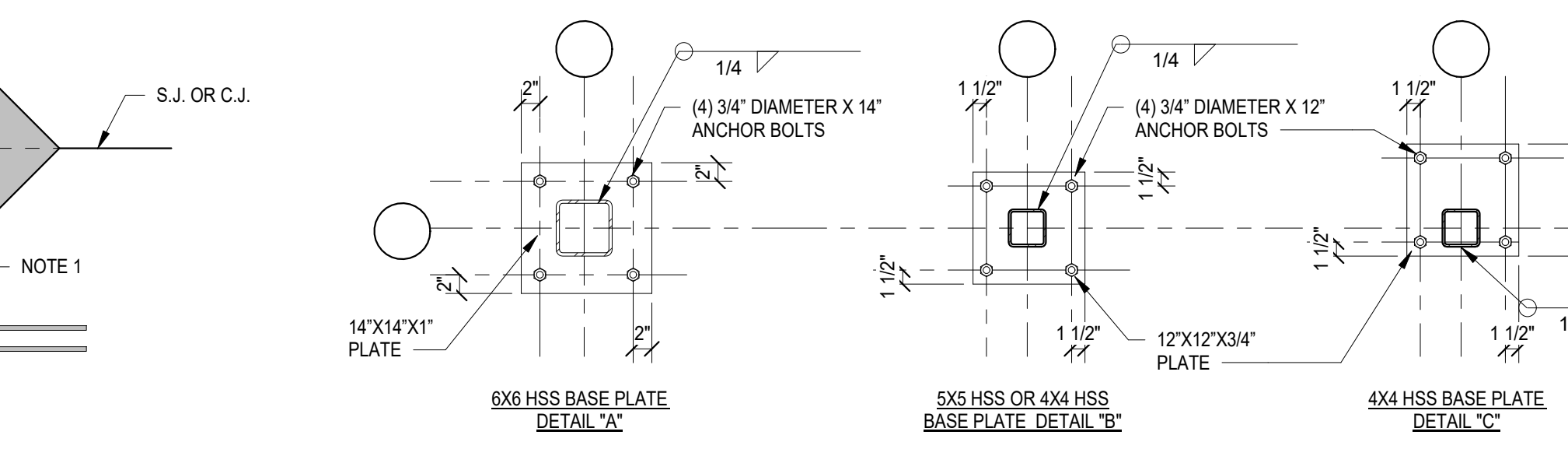
6 SLAB BLOCKOUT/RE-ENTRANT CORNER DETAILS

S410 3/4" = 1'-0"
 NOTES:
 1. THIS DETAIL IS TYPICAL AT ALL BLOCKOUTS AND RE-ENTRANT CORNERS IN SLABS ON GRADE AND ELEVATED SLABS. BLOCKOUTS AND REINFORCING ARE NOT SHOWN ON STRUCTURAL PLANS.



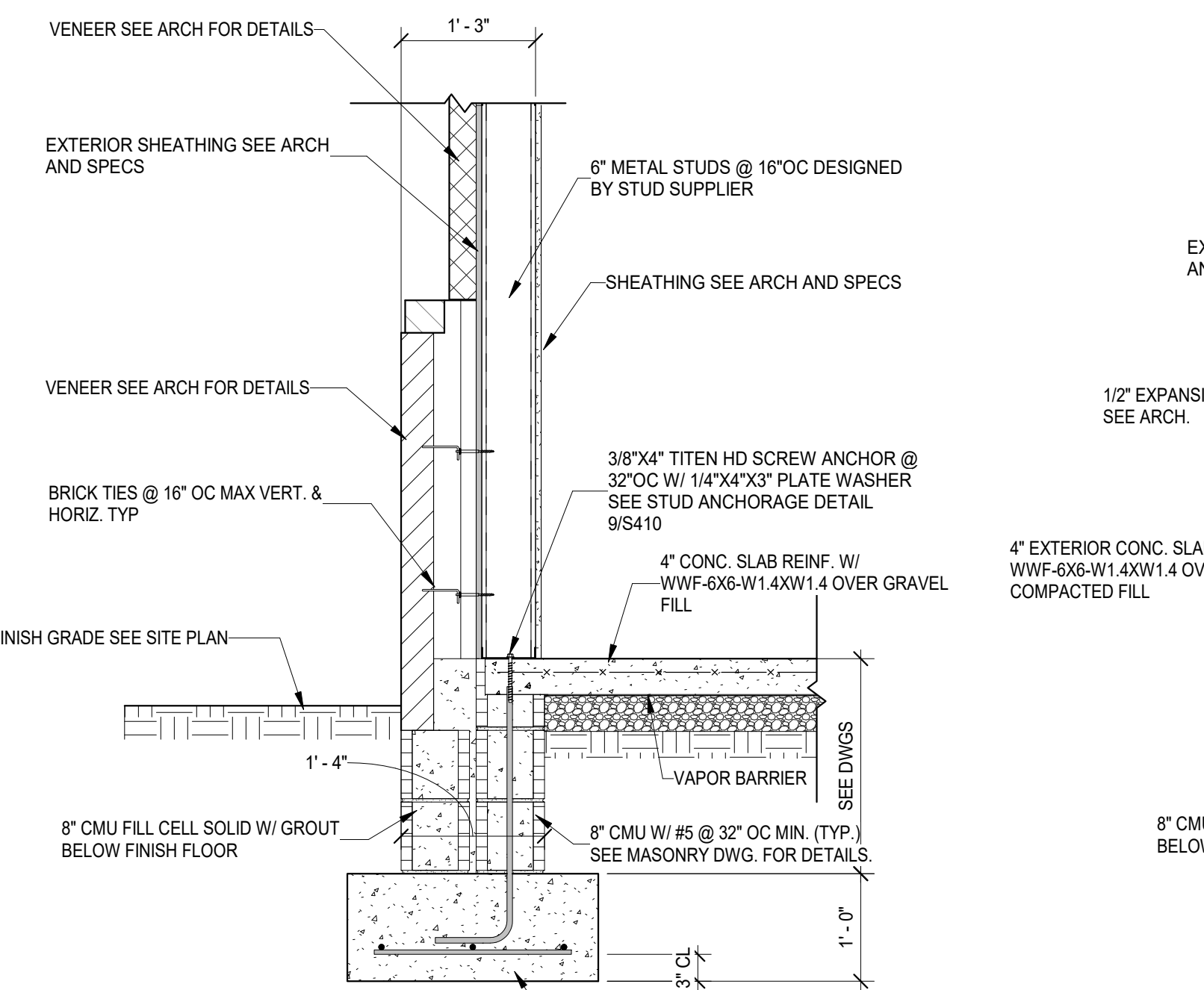
7 TYPICAL ISOLATION JOINT DETAIL

S410 3/4" = 1'-0"
 NOTES:
 1. PROVIDE (2) #4 X 4'-0" LONG IN SLAB AT CORNERS OF ISOLATION JOINTS ONLY AT LOCATIONS WHERE NO S.J. OR C.J. OCCURS.
 2. SEE THE ARCHITECTURAL DRAWINGS FOR WATERPROOFING DETAIL AT ISOLATION JOINTS.



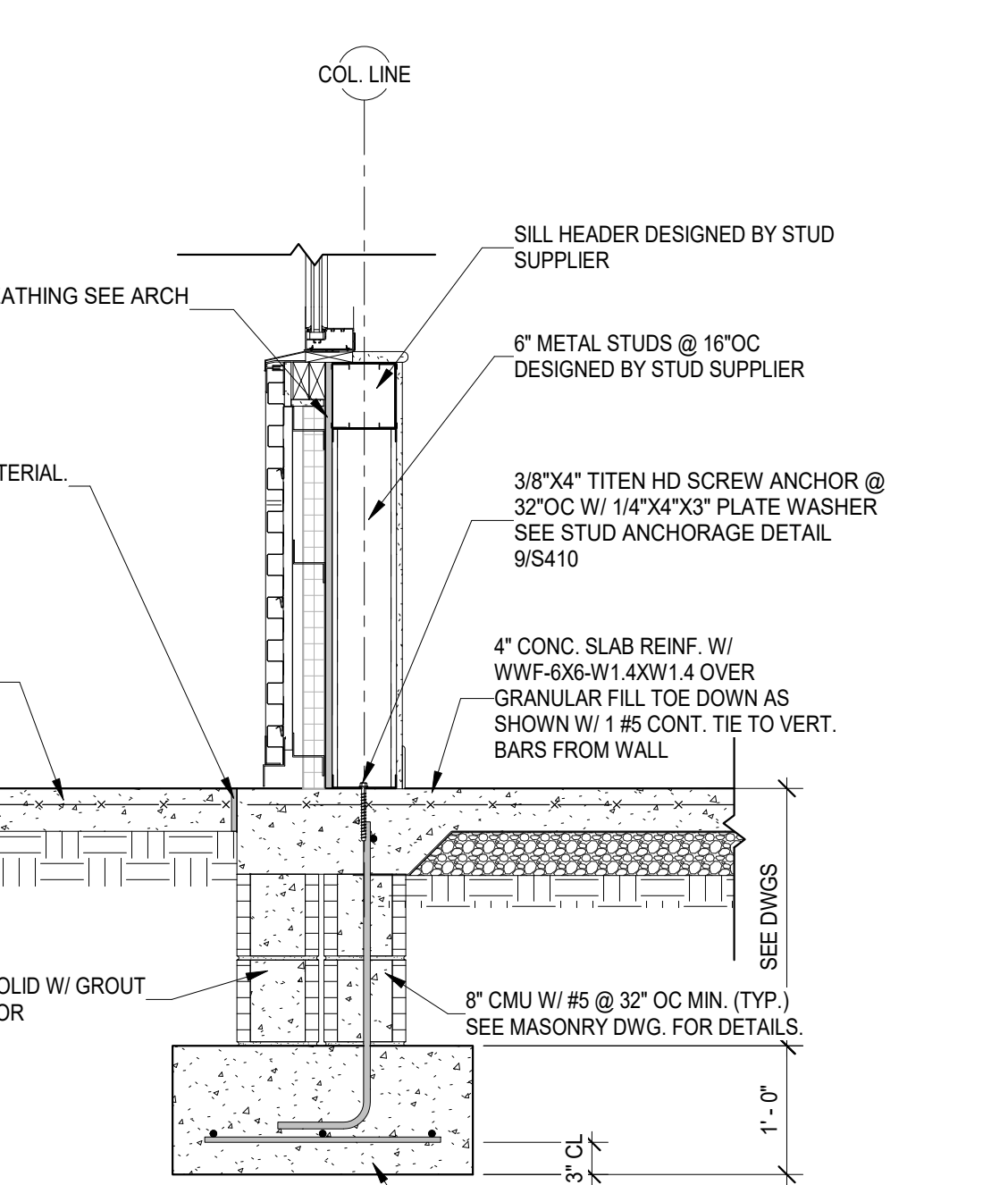
8 COLUMN BASE DETAILS

S410 3/4" = 1'-0"



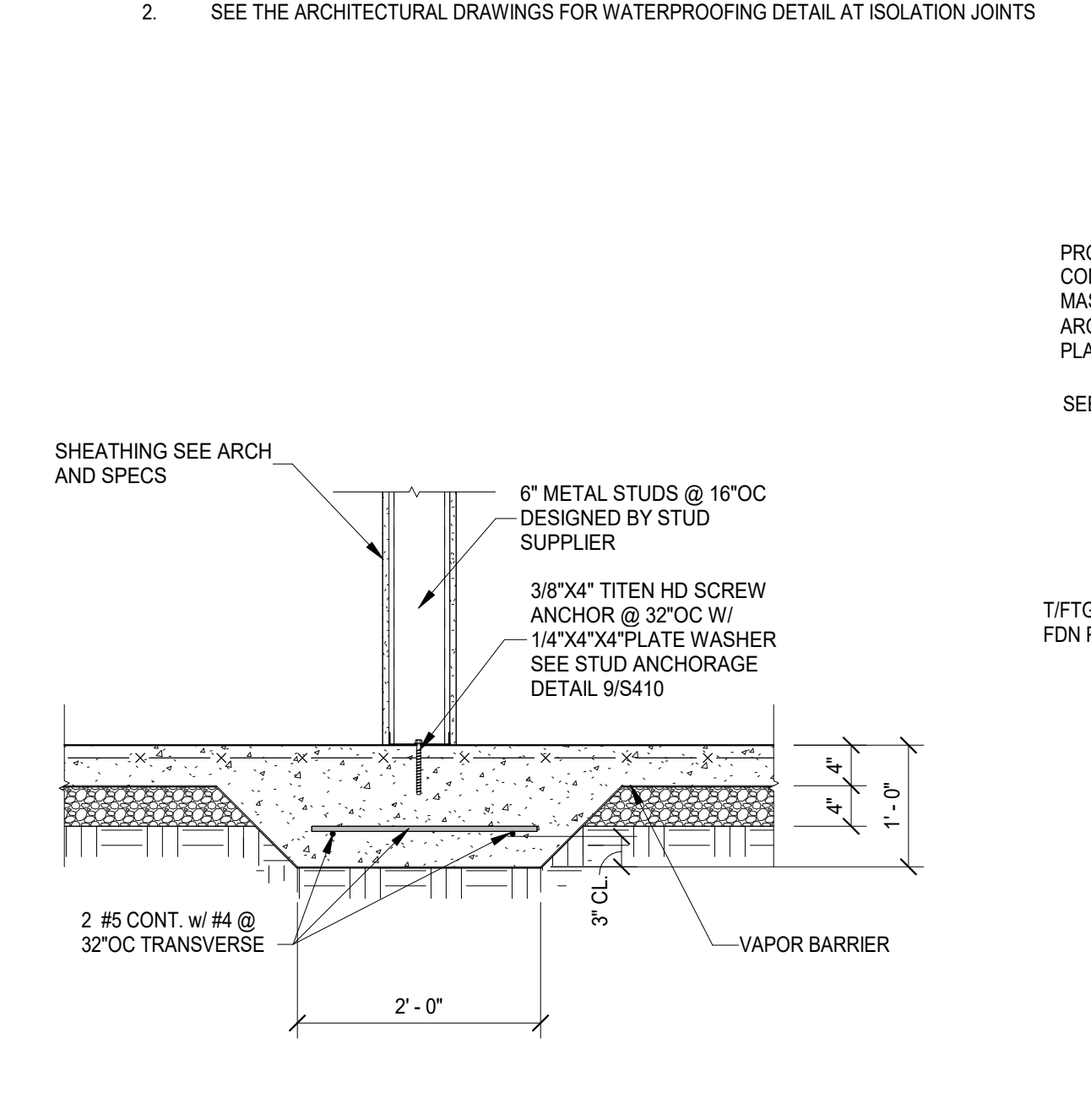
10 SECTION

S410 3/4" = 1'-0"



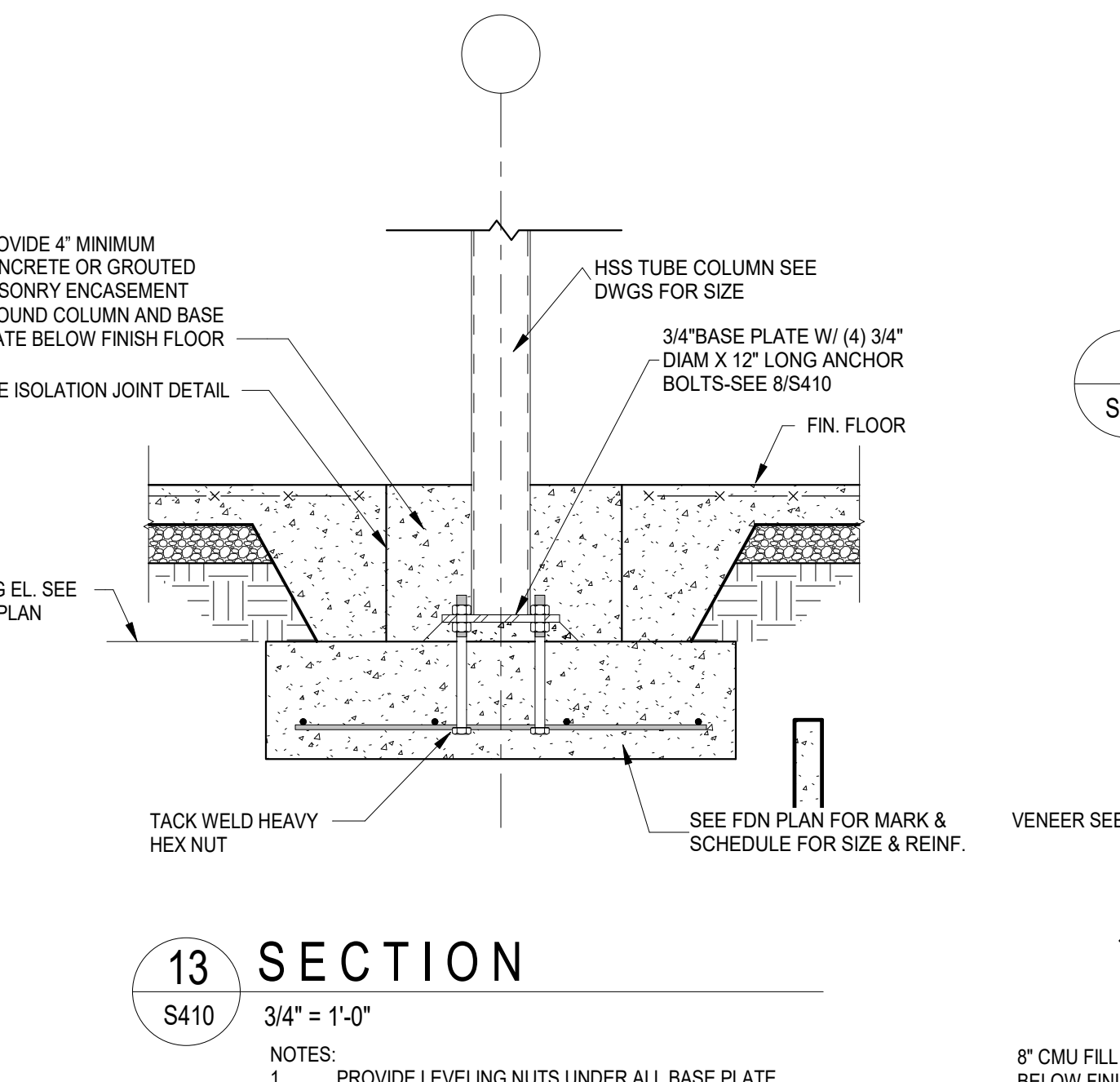
11 SECTION

S410 3/4" = 1'-0"



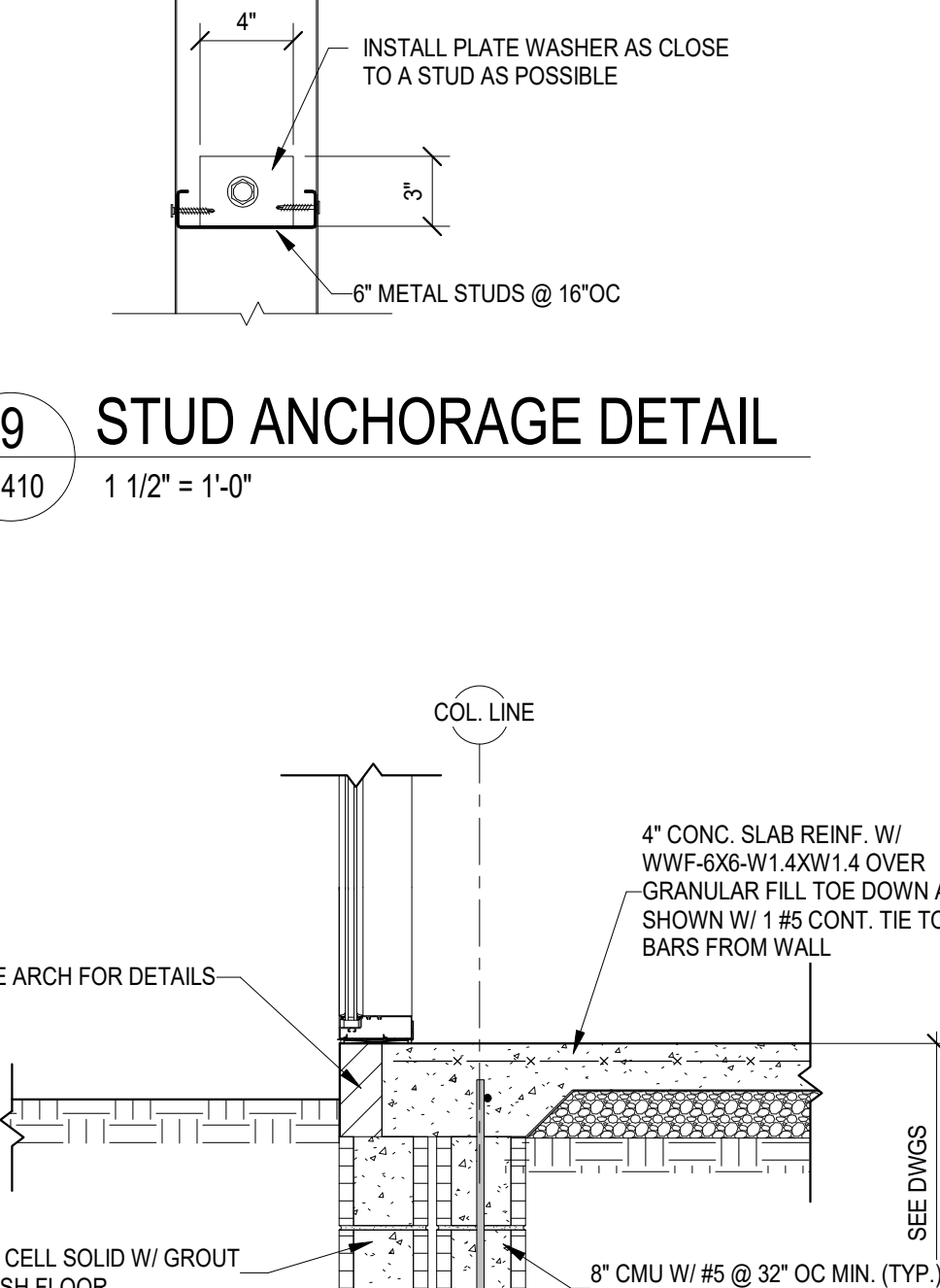
12 SECTION

S410 3/4" = 1'-0"
 NOTES:
 1. THICKEN SLABS ARE NOTED "TS" ON FOUNDATION PLANS.



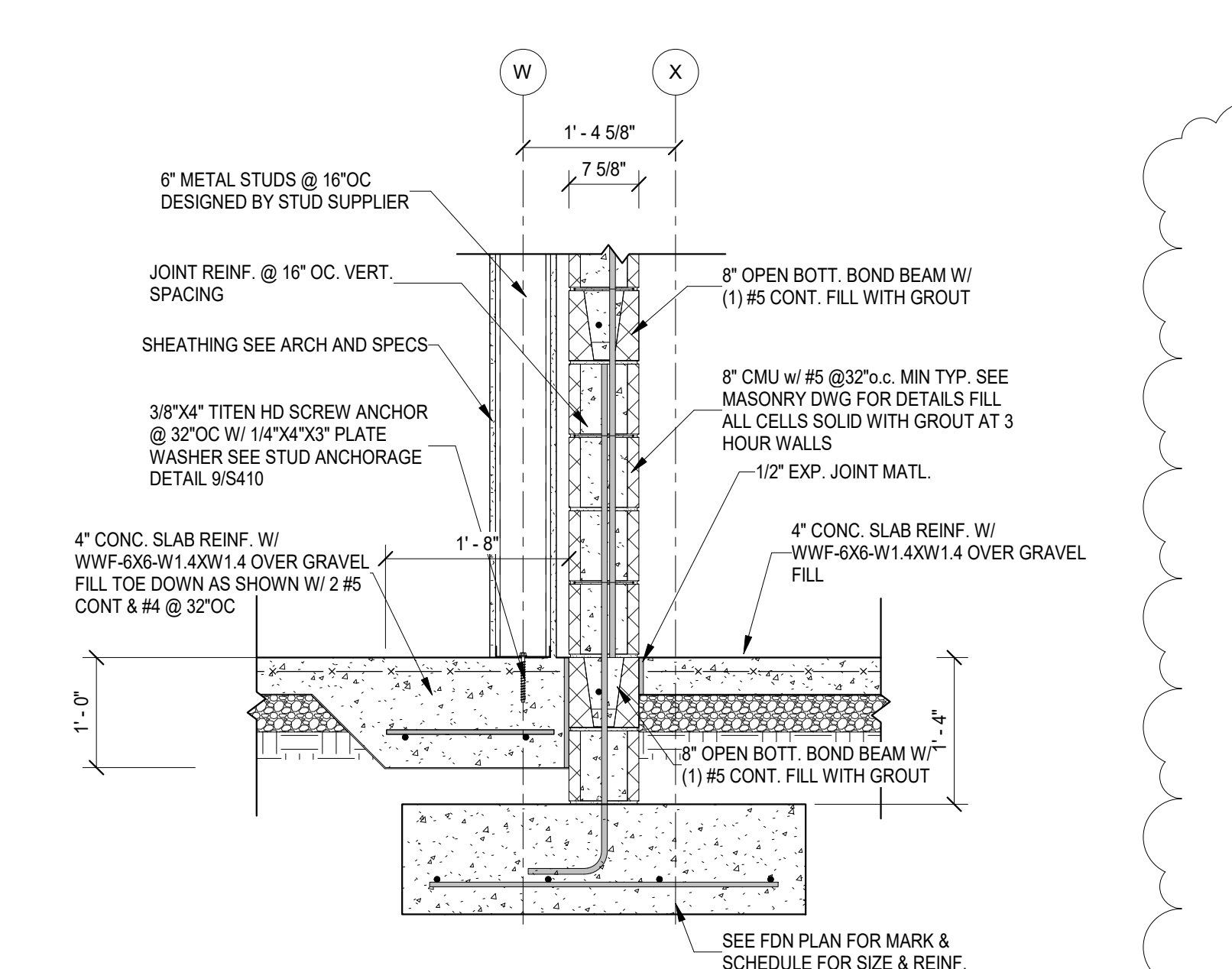
13 SECTION

S410 3/4" = 1'-0"
 NOTES:
 1. PROVIDE LEVELING NUTS UNDER ALL BASE PLATE



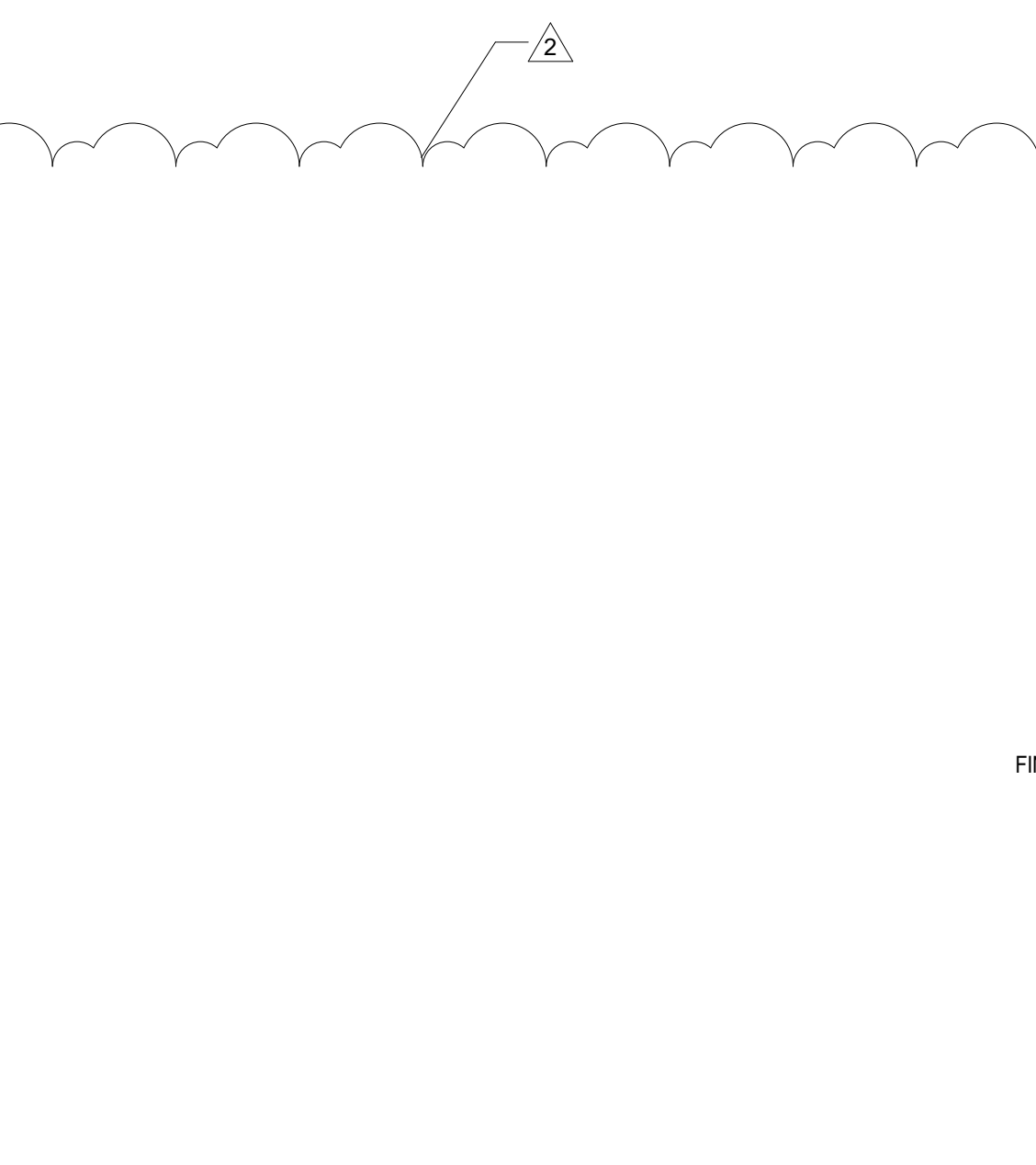
9 STUD ANCHORAGE DETAIL

S410 1 1/2" = 1'-0"



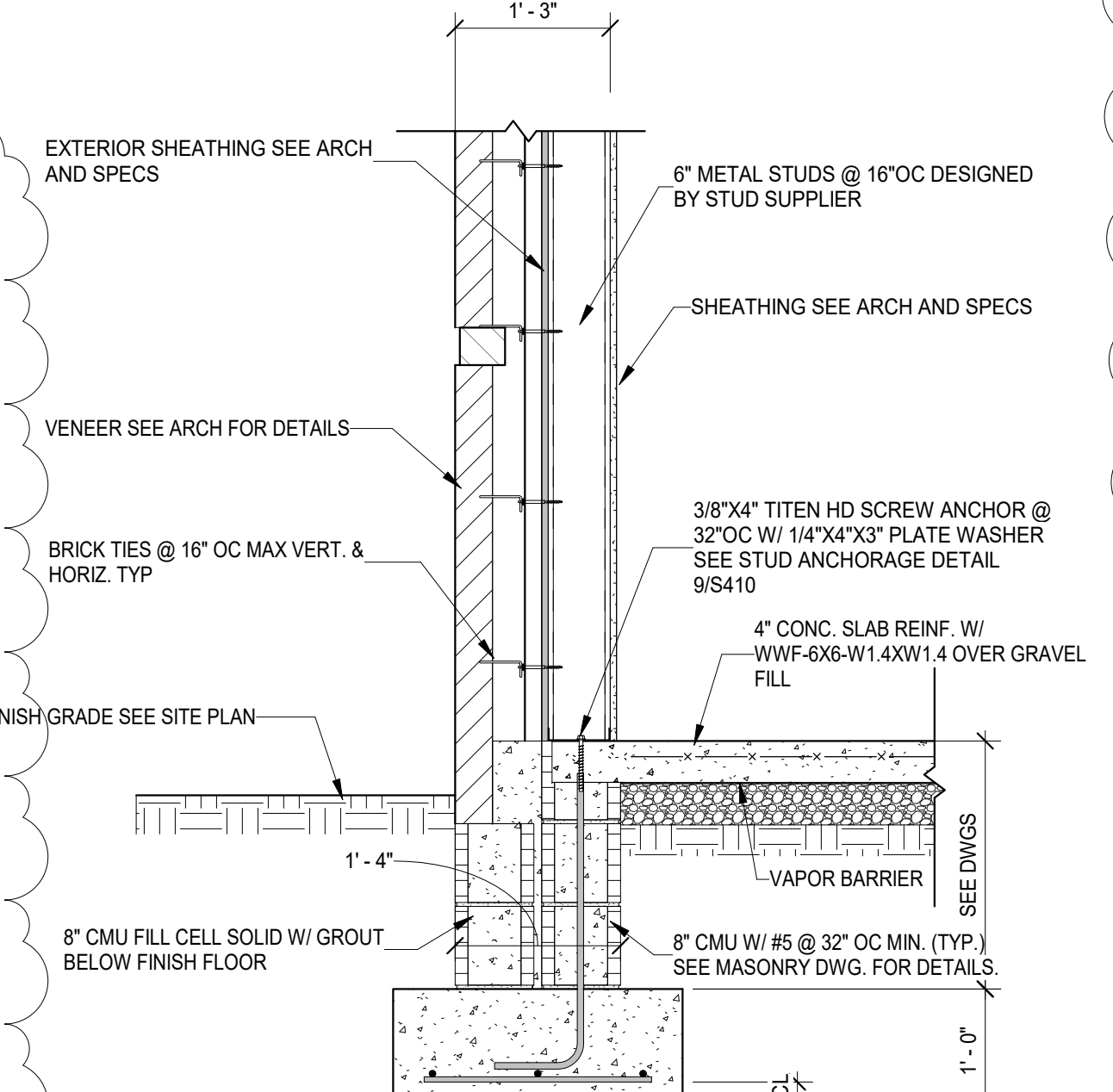
15 SECTION

S410 3/4" = 1'-0"



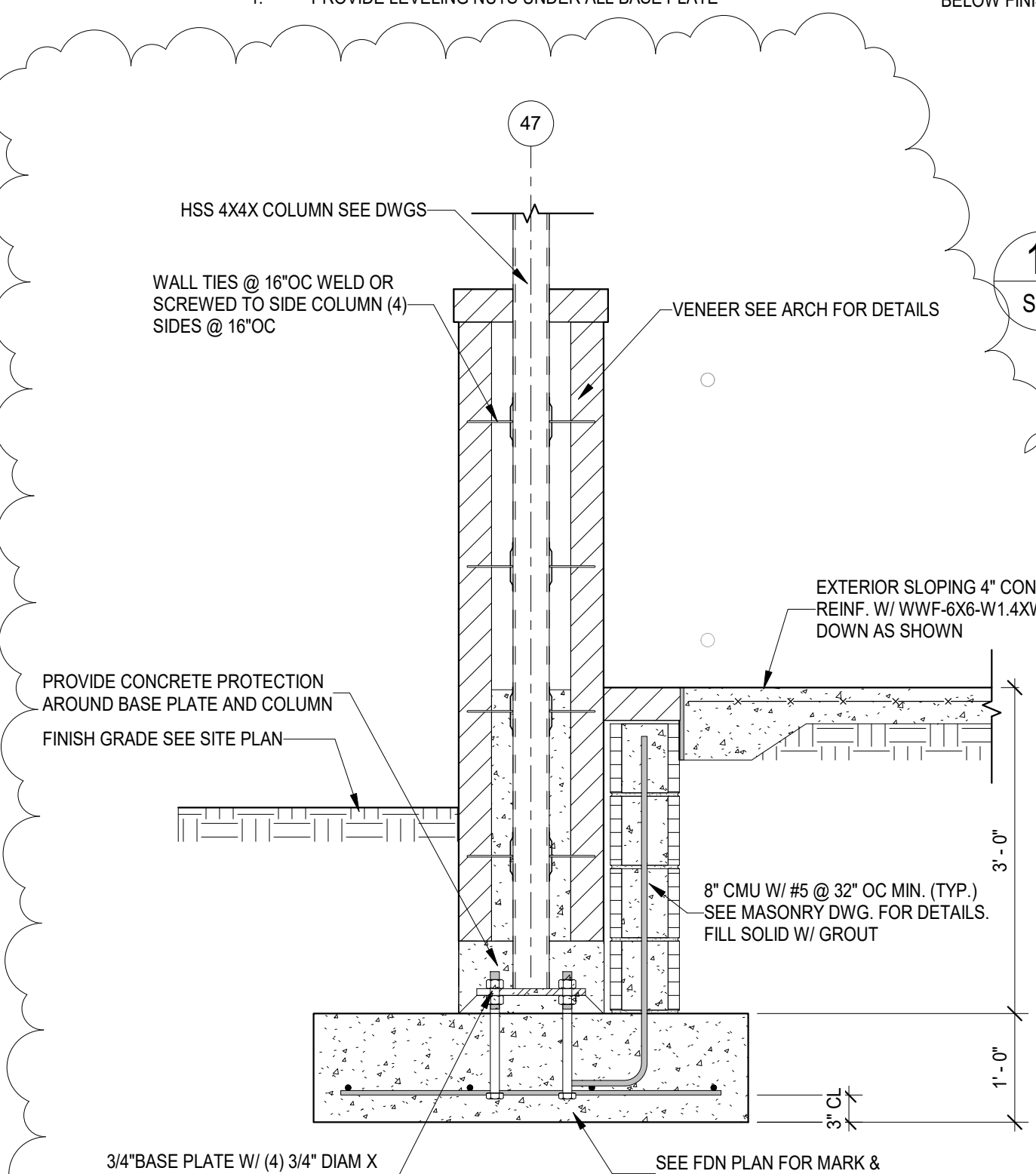
17 SECTION

S410 3/4" = 1'-0"



18 SECTION

S410 3/4" = 1'-0"



14 SECTION

S410 3/4" = 1'-0"

19 SECTION

S410 3/4" = 1'-0"

mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

JOHNSON & KING ENGINEERS
 1223 Elmwood Avenue
 Columbia, SC 29201
 803.779.8831
 803.779.8831

SEALS

JOHNSON & KING ENGINEERS No. 0165

LEE M. MCMILLAN No. 23150
 5.12.21
 LEE M. MCMILLAN

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	4.29.2021	Addendum No. 1	LWK
2	5.12.2021	Addendum No. 2	LWK

CONSTRUCTION DOCUMENTS 04/19/2021

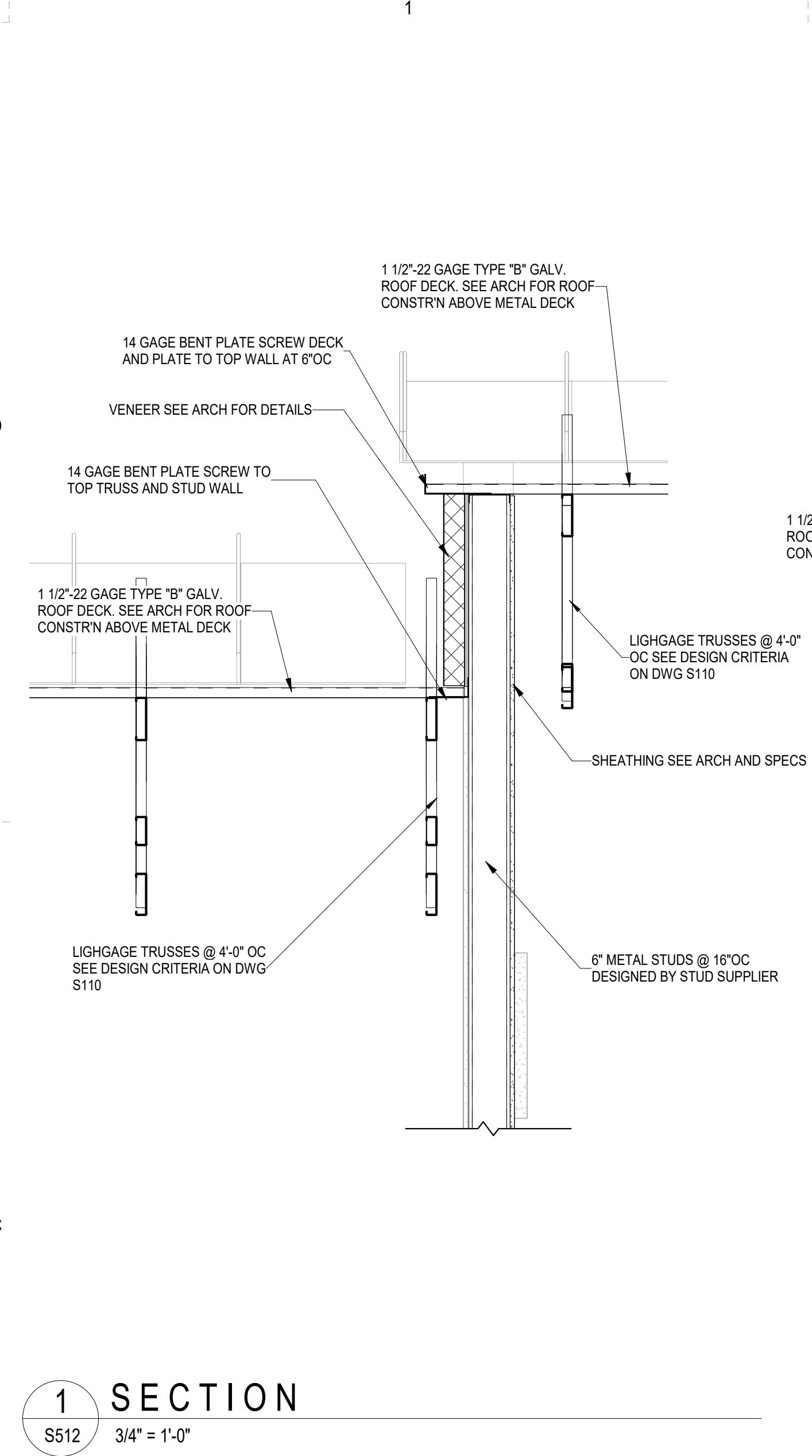
PRINCIPAL IN CHARGE: LWK
 PROJECT ENGINEER: JLM
 DRAWN BY: LWK

SHEET TITLE: FOUNDATION SECTIONS

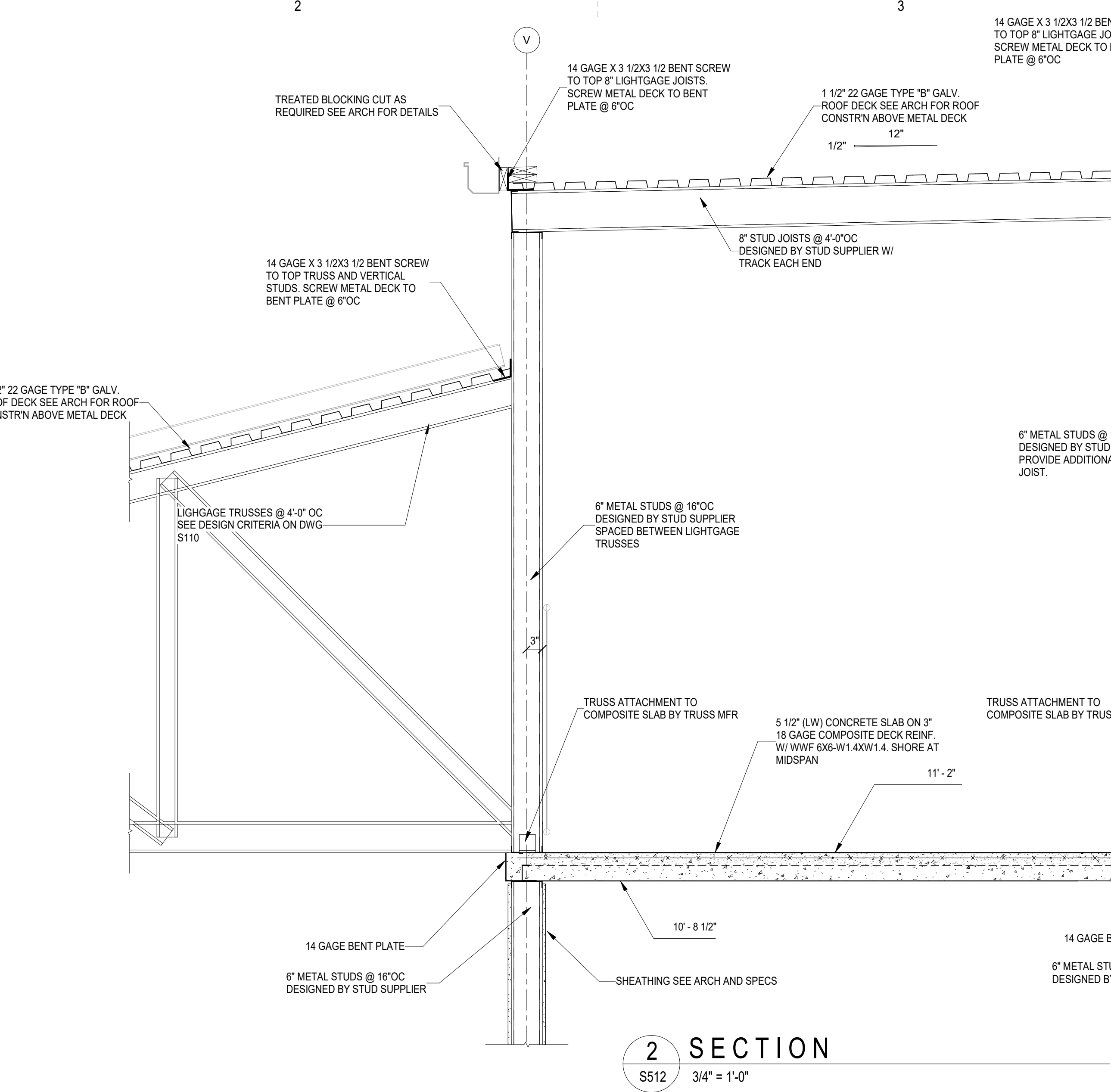
SHEET NO. PROJ. NO. 020063.00

S410

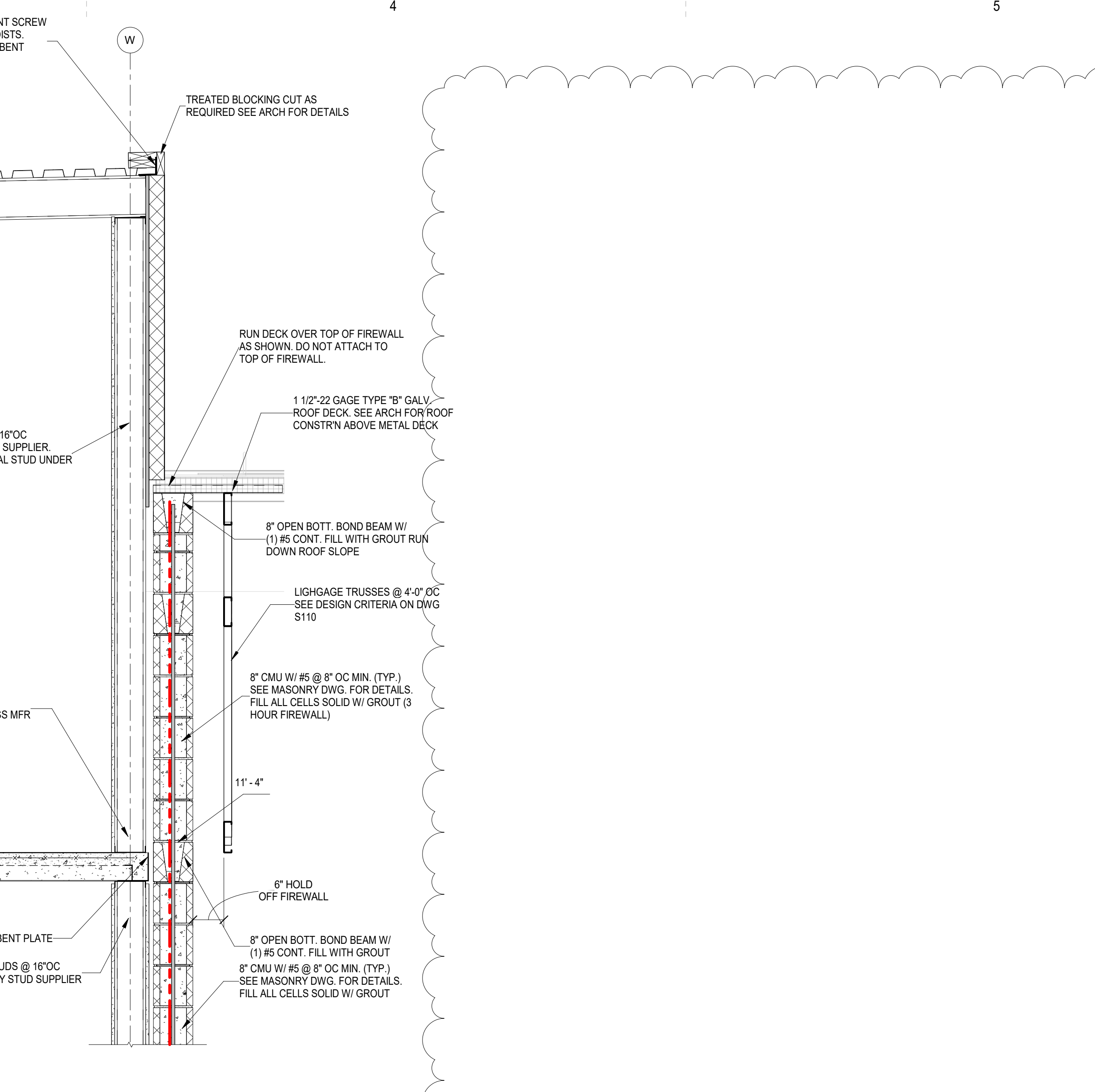
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1 SECTION
S512 3/4" = 1'-0"



2 SECTION
S512 3/4" = 1'-0"



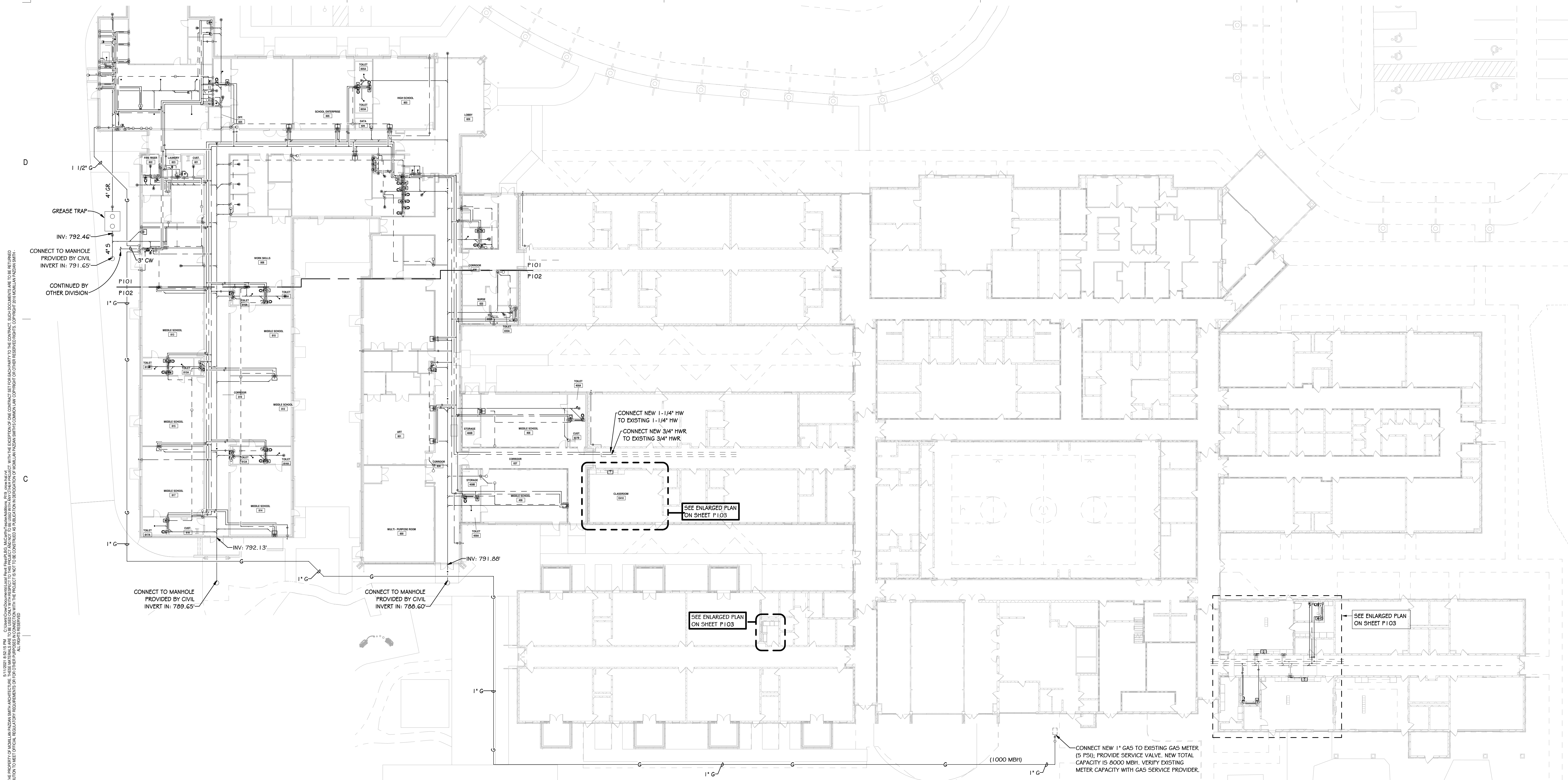
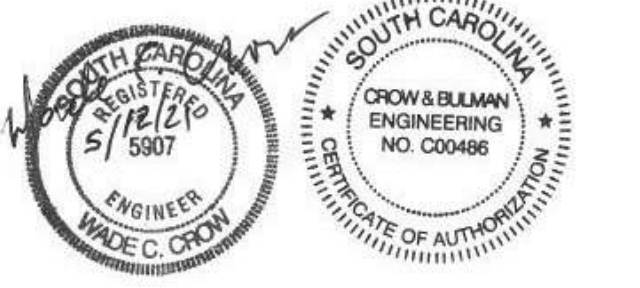
5 SECTION
S512 3/4" = 1'-0"

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
2	5.12.2021	Addendum No. 2	LWK

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: LWK
PROJECT ENGINEER: JLM
DRAWN BY: LWK
SHEET TITLE:
ROOF FRAMING SECTIONS

SHEET NO. PROJ. NO.
020063.00



OVERALL PLUMBING PLAN
1" = 20'-0"

SYMBOLS

- SEWER OR WASTE
- VENT (OR EXIST. PIPE IF NOTED)
- POTABLE COLD WATER (CW)
- POTABLE HOT WATER (HW)
- HOT WATER PUMPED RETURN
- DRAIN
- ⊕ BALL VALVE
- ⊗ GATE VALVE
- UNION
- ⊥ CHECK VALVE
- ⊘ GLOBE VALVE
- VB VALVE BOX
- CO CLEANOUT
- FD FLOOR DRAIN
- G— NATURAL GAS
- HB HOSE BIBB
- WH WALL HYDRANT
- VTR VENT THRU ROOF
- SA SHOCK ABSORBER
- HD HUB DRAIN
- FS FLOOR SINK
- O/H OVER HEAD
- UG UNDERGROUND
- DI DUCTILE IRON

GENERAL NOTES:

1. ALL SEWER FLOOR CLEAN-OUTS SHALL TURN UP TO GRADE/SLAB WITH A LONG SWEEP ELL.
2. OUTSIDE CLEAN-OUTS SHALL BE SET IN A 4" DEEP CONCRETE PAD. SEE SPECS.
3. ALL FLOOR DRAINS, HUB DRAINS, AND A/C CONDENSATE DRAINS SHALL HAVE DEEP SEAL TRAPS (MINIMUM 4" SEAL).
4. ALL WATER CLOSETS SHALL HAVE HYDRAULIC SHOCK ABSORBERS; REFER TO SPECS FOR SIZE. MOUNT EACH SHOCK ABSORBER ON A RISER AND ACCESSIBLE FROM THE CEILING SPACE.
5. FIRE PROOF ALL PIPE PENETRATIONS OF A FIRE WALL. SEE DETAILS ON P300.
6. INSULATE P-TRAP AND HORIZONTAL DRAIN LINES ABOVE CEILING THAT RECEIVE THE CONDENSATE FROM HVAC EQUIPMENT (SEE SPECIFICATIONS).
7. DO NOT INSTALL PLUMBING VENTS WITHIN 10' FROM A FRESH AIR INTAKE VENT.
8. MECHANICAL ROOMS: COORDINATE THE EXACT LOCATION OF MECHANICAL ROOM FLOOR DRAINS WITH MECHANICAL CONTRACTOR AND G.C. TO AVOID EQUIPMENT AND CONCRETE PADS.
9. WHERE SEWER LINES ARE ROUTED BELOW THE STRUCTURAL FOOTINGS OR THROUGH FOUNDATION WALLS, PROVIDE A DUCTILE IRON PIPE SLEEVE BELOW THE FOOTING. THE SLEEVE SHALL BE A MINIMUM 2 PIPE SIZES LARGER THAN THE PIPE PASSING BELOW THE FOOTING.
10. WHERE UNDER SLAB OR BELOW GRADE PLUMBING LINES PENETRATE A FOOTING WALL OR ANY VERTICAL WALL OR WHERE PLUMBING LINES EXTEND THROUGH FLOOR SLABS AND OR THICKENED SLABS, THE PLUMBING LINE SHALL BE INSULATED WITH 3/4" THICK ARMAFLEX INSULATION.
11. FOR ALL HUB DRAINS AND/OR FLOOR DRAINS, PROVIDE A FLEXIBLE TRAP SEALER INSERT. (SEE SPECIFICATIONS)
12. THE AIR GAP BETWEEN ALL INDIRECT WASTE PIPES AND THE FLOOD LEVEL RIM OF THE WASTE RECEPTOR SHALL BE MINIMUM TWO PIPE DIAMETERS OF THE INDIRECT WASTE PIPE.
13. PIPE GAS RELIEF VENTS TO OUTSIDE:
BOILERS & WATER HEATERS: (FOR EACH UNIT)
RELIEF VALVES FULL SIZE (EA.); PRV VENT FULL SIZE (EA.); GAS TRAIN VENT SHALL BE SIZED AS FOLLOWS:

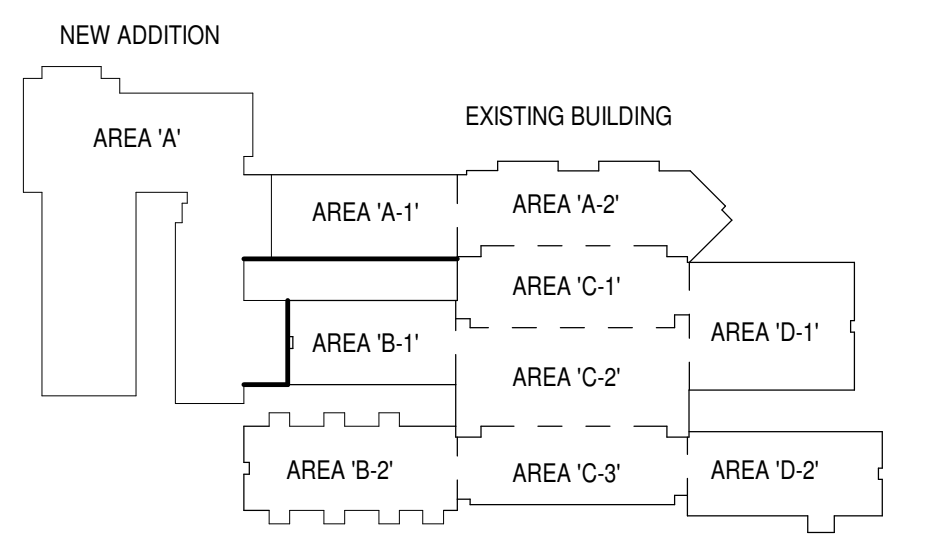
FUEL LINE DIA.	UP TO 1-1/2"	2"	2-1/2"	3"	4"	5"
VENT LINE DIA.	3/4"	1"	1-1/4"	1-1/4"	2"	2"

14. COORDINATE WELDING/SOLDERING ACTIVITIES WITH THE AUTHORITY HAVING JURISDICTION AND THE G.C. TO CONFIRM THAT APPROPRIATE LIFE SAFETY MEASURES ARE TAKEN AND THE APPROPRIATE PERMITS ARE ACQUIRED

PLUMBING SHEET LIST

- P100 OVERALL PLUMBING PLAN
- P101 AREA 'A' PLUMBING FLOOR PLAN
- P102 AREA 'A' CONTINUED PLUMBING FLOOR PLAN
- P103 EXISTING PLUMBING MODIFICATIONS & NEW SEWER CAMERA TEST
- P200 FOOD PREP PLUMBING PLAN
- P300 PLUMBING SCHEDULES & DETAILS

KEY PLAN



SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	
2	05/12/2021	Addendum No. 2	

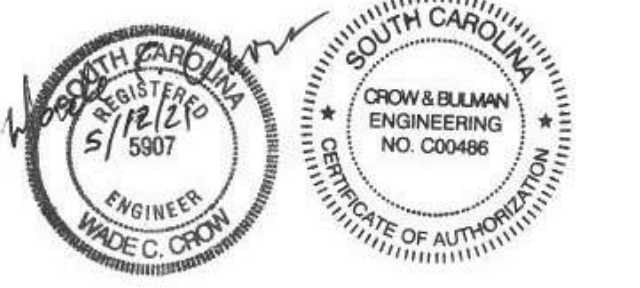
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WCC
PROJECT ENGINEER: WHC, STB, HFC
DRAWN BY: HFC

SHEET TITLE:
OVERALL PLUMBING PLAN

SHEET NO. PROJ. NO. 2022

P100

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SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITION AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

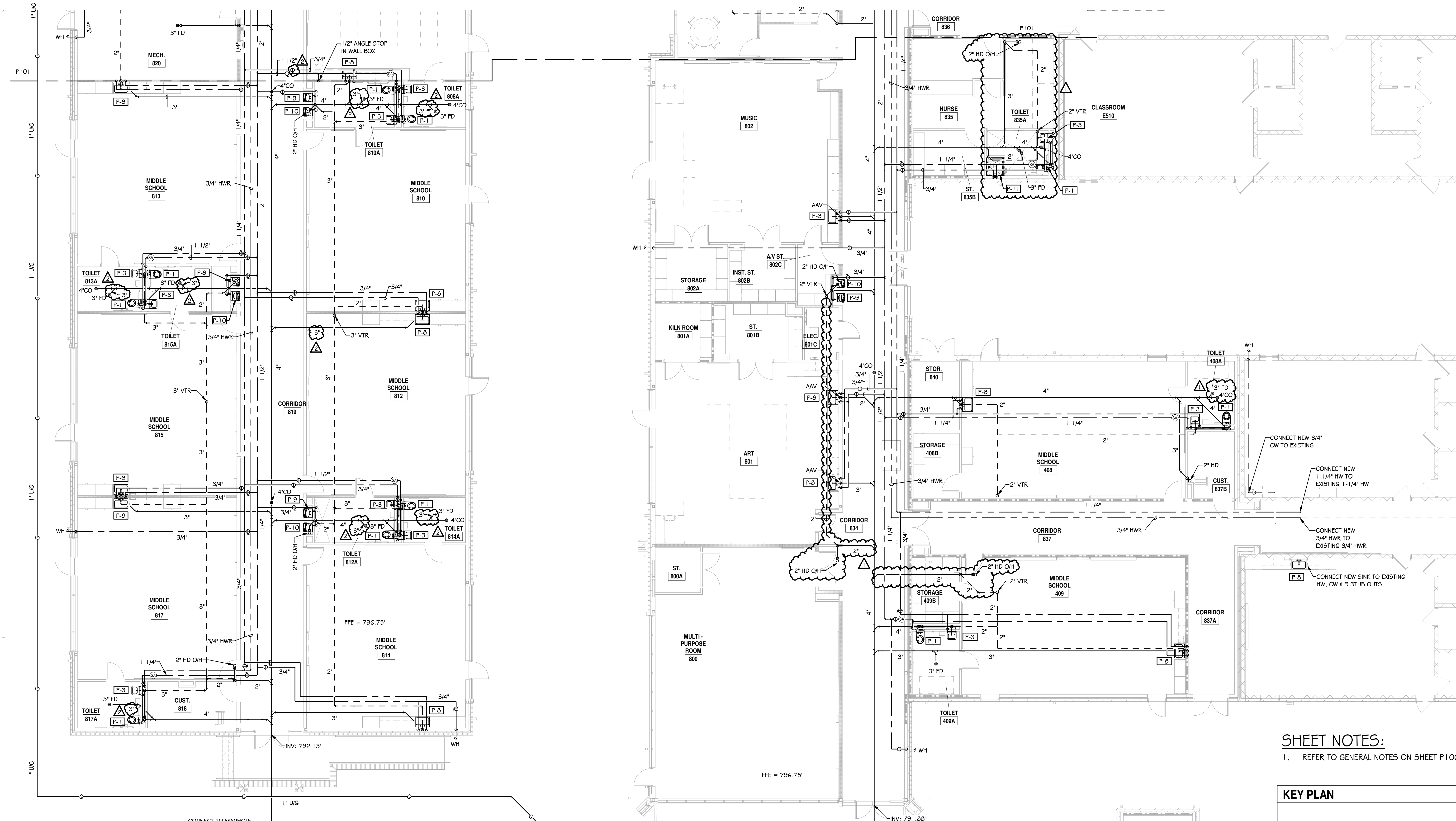
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	WCC
2	05/12/2021	Addendum No. 2	HFC

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WCC
PROJECT ENGINEER: WCC, STB, HFC
DRAWN BY: HFC

SHEET TITLE:
AREA 'A' CONTINUED
PLUMBING FLOOR PLAN

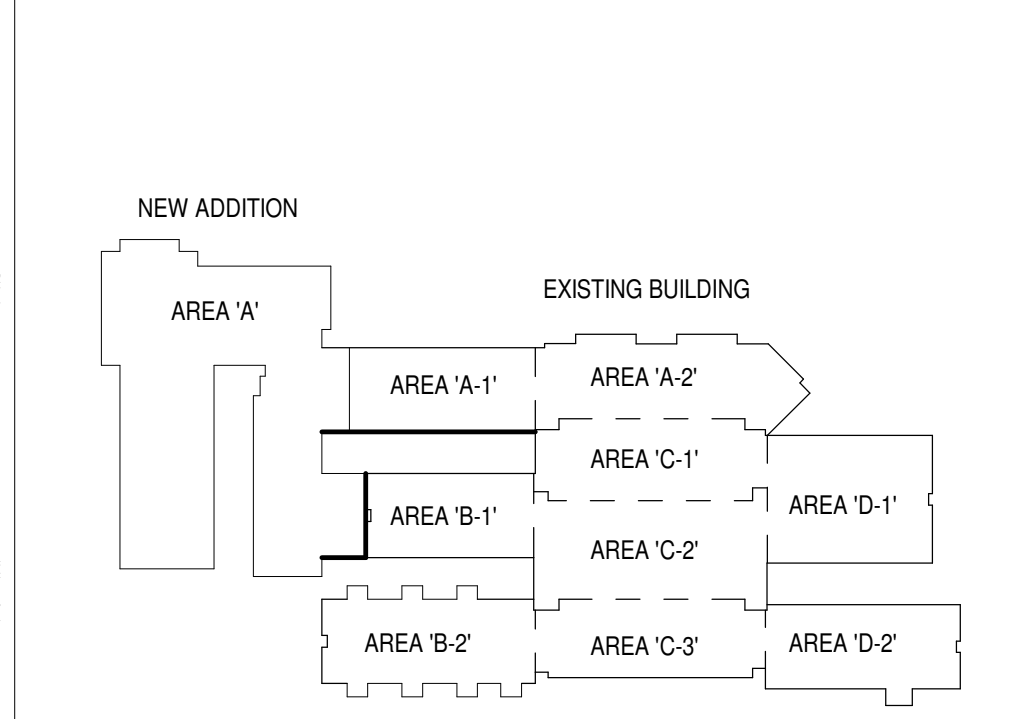
SHEET NO. PROJ. NO.
2022

P102



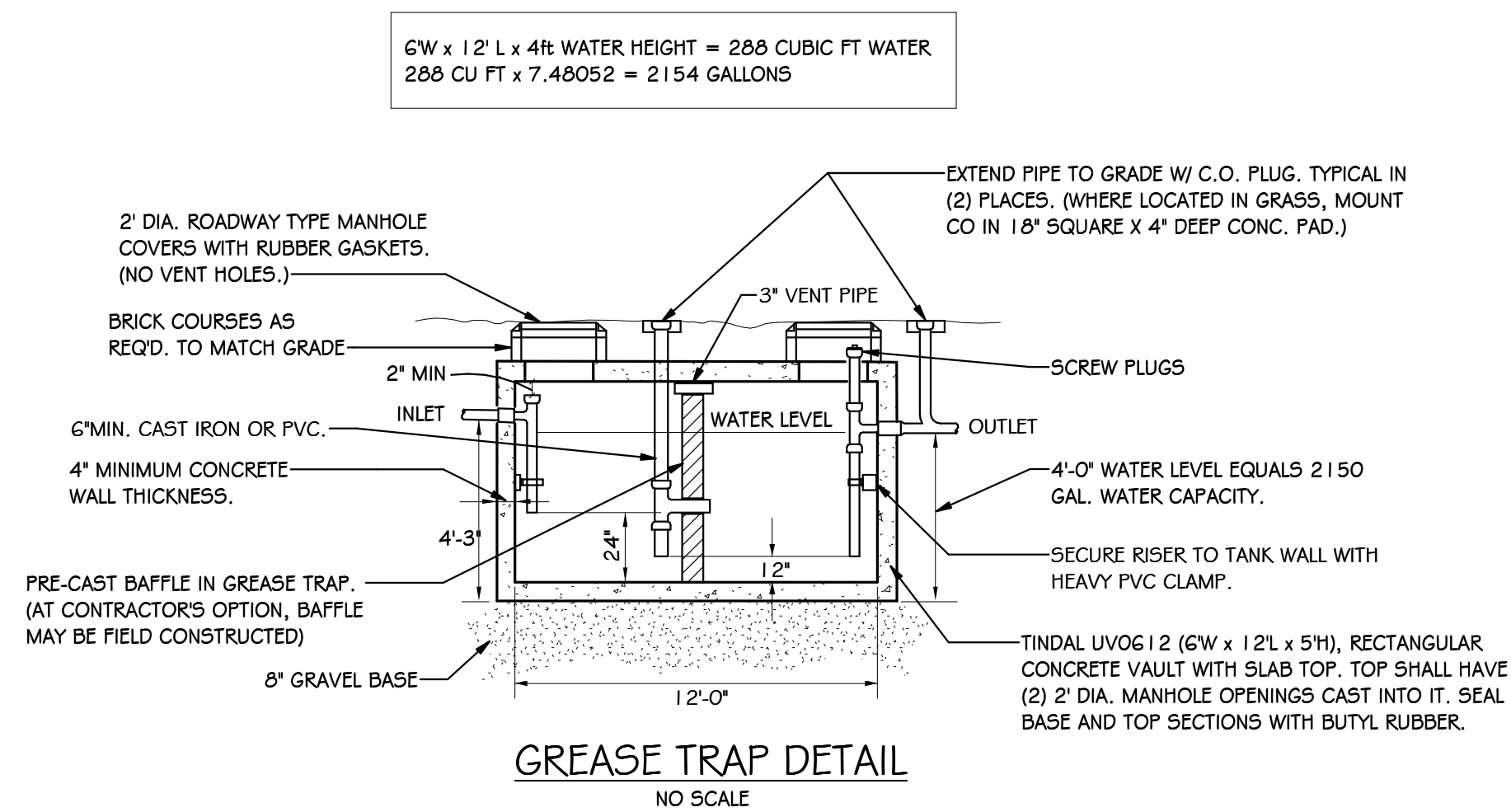
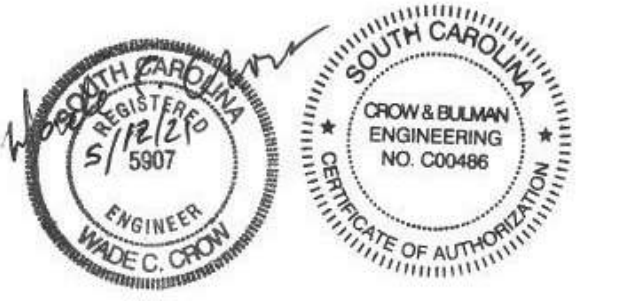
SHEET NOTES:
1. REFER TO GENERAL NOTES ON SHEET P100

KEY PLAN

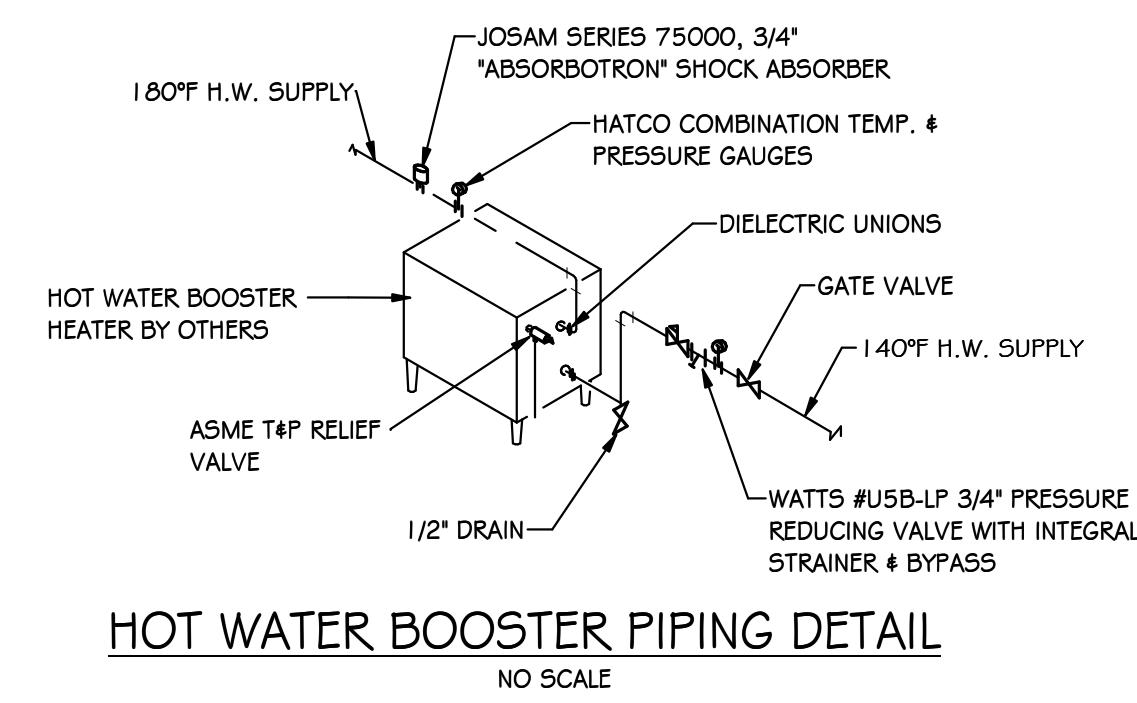
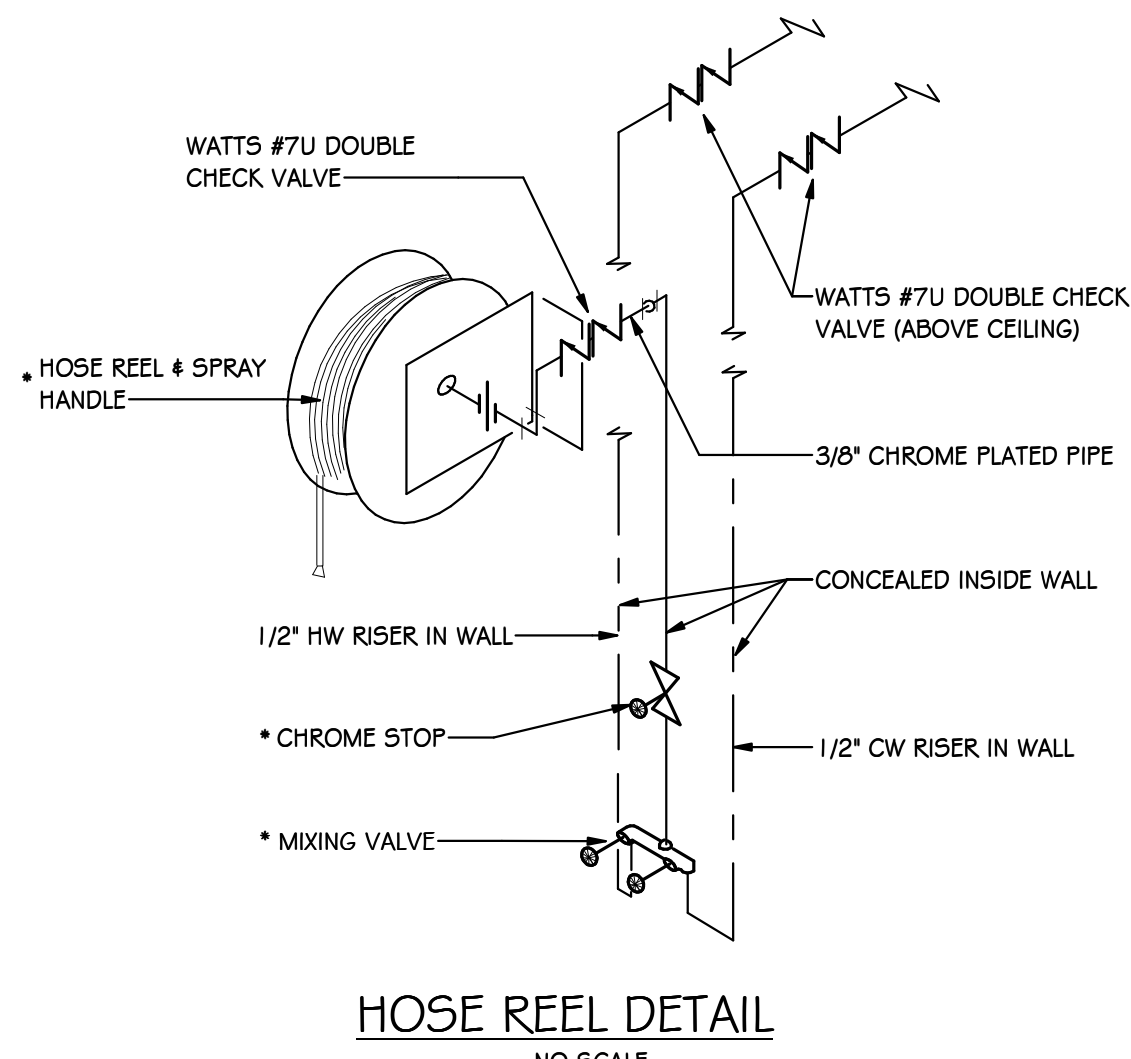


PLUMBING FLOOR PLAN - AREA 'A' CONTINUED
1/8" = 1'-0"

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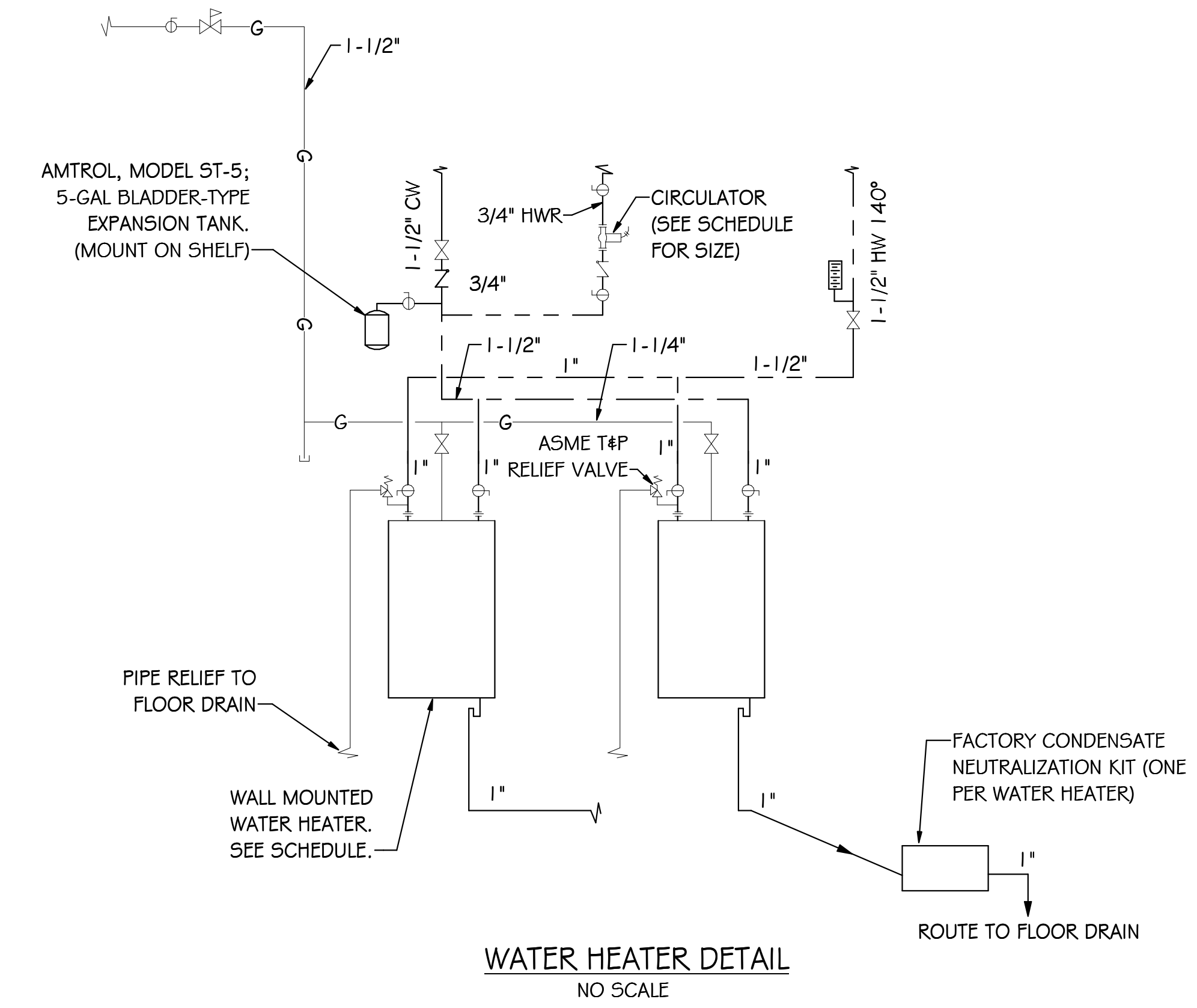
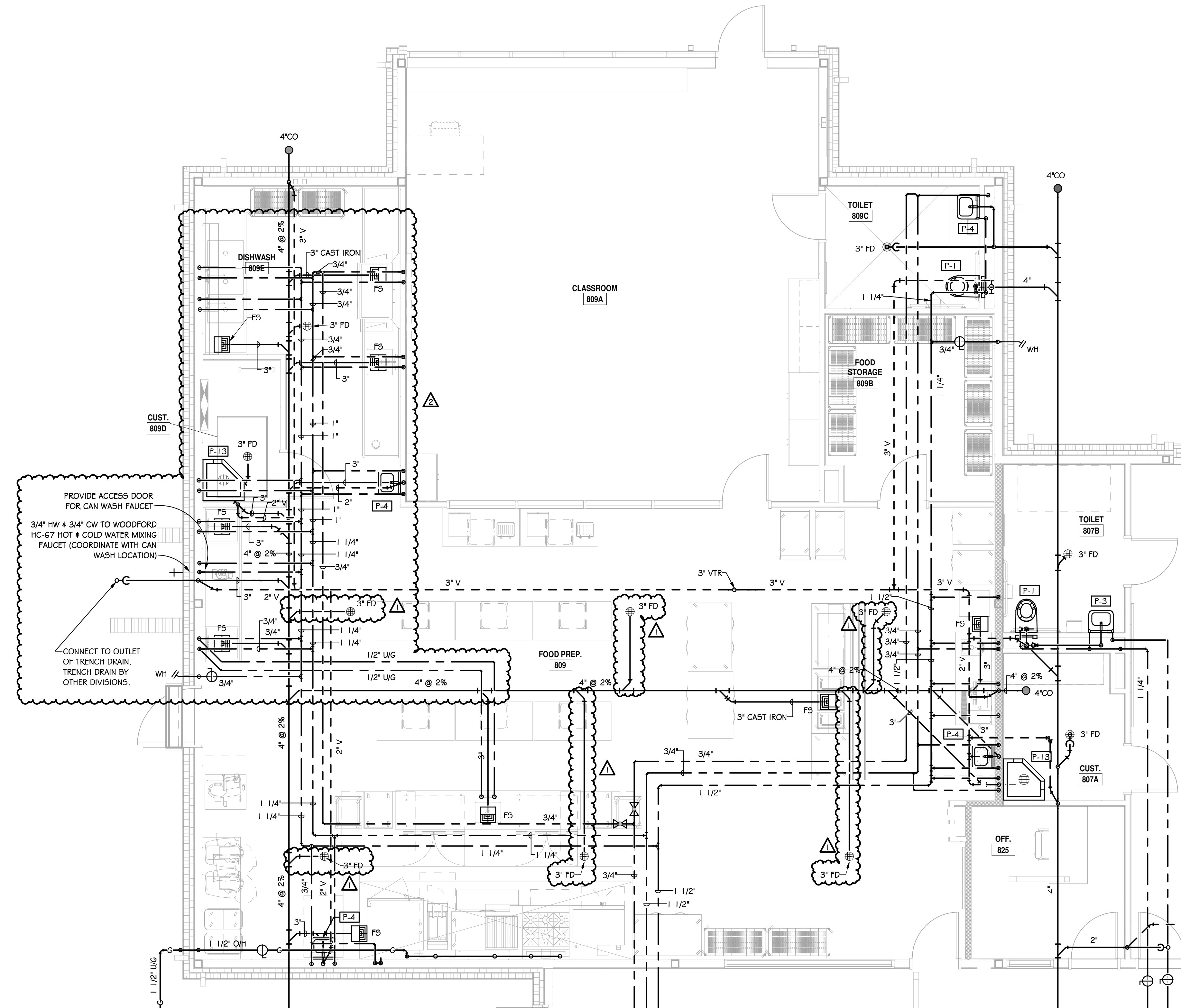


- NOTES:
- 1) BAFFLE SHALL BE LOCATED 2/3 ON INLET SIDE AS FOR GREASE ACCUMULATION, 1/3 ON THE EXIT SIDE.
 - 2) THE DEPTH AND LENGTH DIMENSIONS SHOWN ARE FOR STANDARD PRECAST TANK. THE EXACT SIZE, TYPE, AND LOCATION OF EACH INTERCEPTOR SHALL BE APPROVED BY THE ENGINEER AND THE PLUMBING OFFICIAL.
 - 3) STANDARD PREFAB INTERCEPTORS MAY BE USED BY PRIOR APPROVAL.

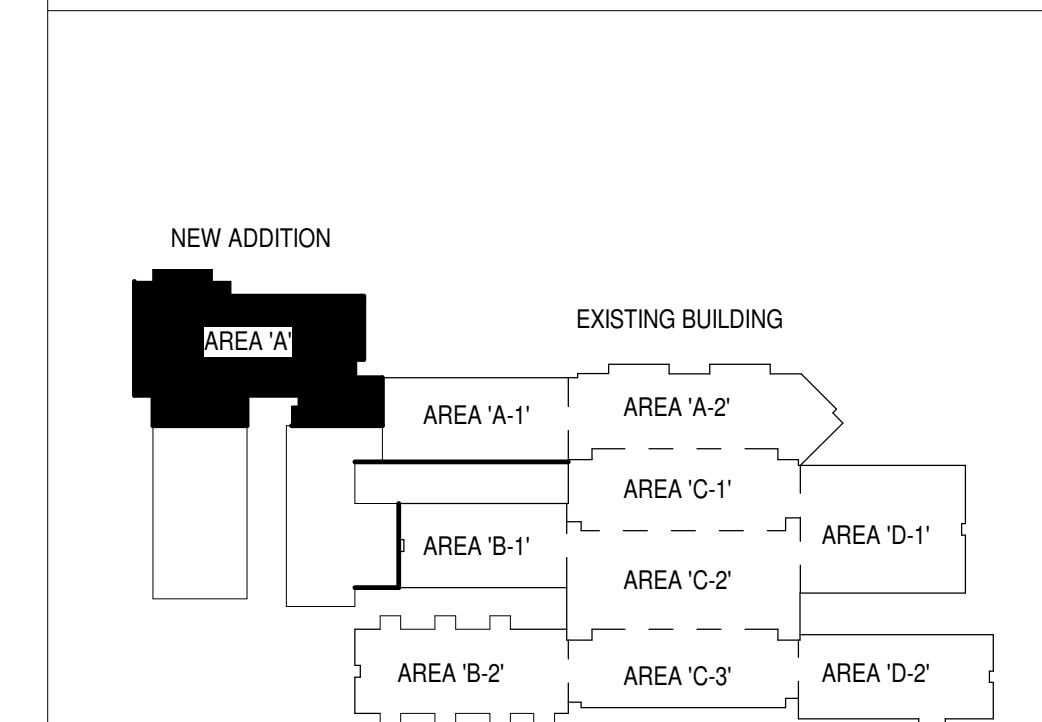


SHEET NOTES:

- 1) SEE GENERAL NOTES ON SHEET P100
- 2) REFER TO KITCHEN EQUIPMENT PLANS FOR EXACT ROUGHING DIMENSIONS, DETAILS, SIZES, AND TYPE OF FLOOR SINKS & TOPS.
- 3) PROVIDE A WATTS #7 DUAL CHECK BACKFLOW PREVENTER AT THE HOSE REEL, DISH MACHINE, AND ANY OTHER APPLIANCES WITH A SUBMERGED WATER INLET/DISCHG.
- 4) PROVIDE A WATTS #9D BACKFLOW PREVENTER WITH ATMOSPHERIC VENT AT THE DISPOSAL, FOOD SCRAPER, PULPER, OR ANY OTHER APPLIANCES WHERE THE POTABLE WATER CONNECTION IS HARD CONNECTED INTO THE DRAIN BASIN.
- 5) RUN ALL KITCHEN UNDERGROUND DRAIN AT 2% MIN. GRADE.
- 6) PROVIDE A UL LISTED GAS SERVICE VALVE (BALL VALVE) AT EACH GAS APPLIANCE. PROVIDE FLEXIBLE COUPLINGS AND MAKE FINAL CONNECTIONS
- 7) PROVIDE FLEXIBLE COUPLINGS AND BALL VALVES AT HOT AND COLD WATER CONNECTIONS FOR APPLIANCES UNDER HOODS.
- 8) PROVIDE RESTRAINING CABLES AND LATCHES FOR APPLIANCES ON CASTERS.
- 9) ALL FIXTURE BRANCH WATER LINES 1/2\"/>



KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITION AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

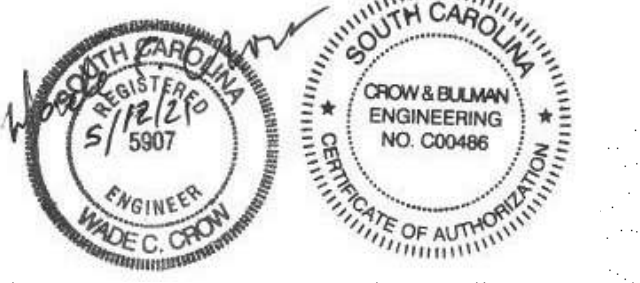
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	WCC
2	05/12/2021	Addendum No. 2	HFC

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WCC
PROJECT ENGINEER: WCC, STB, HFC
DRAWN BY: HFC

SHEET TITLE:
FOOD PREP PLUMBING PLAN

SHEET NO. PROJ. NO. 2022

P200



SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITION AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

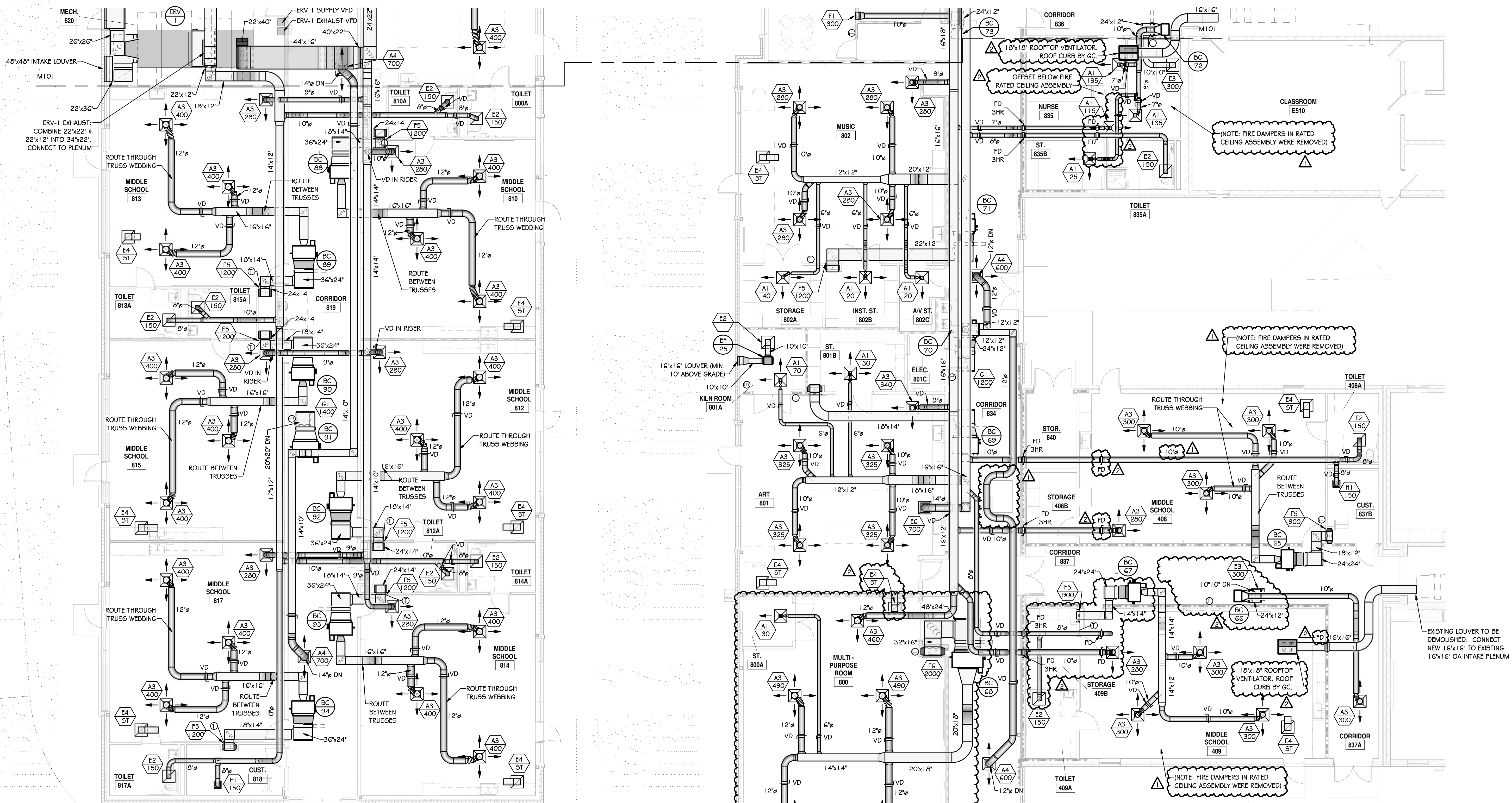
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

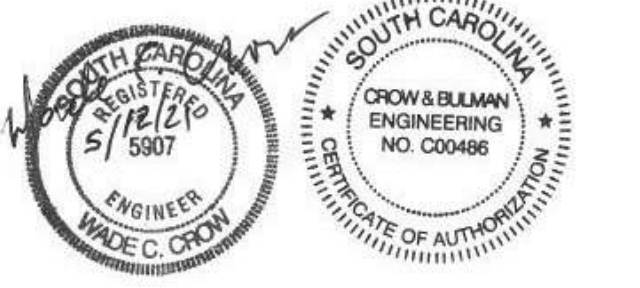
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	
2	05/12/2021	Addendum No. 2	

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WCC
PROJECT ENGINEER: WHC, STB, HFC
DRAWN BY: HFC

SHEET TITLE:
AREA 'A' CONTINUED
HVAC FLOOR PLAN

SHEET NO. PROJ. NO.
M102 2022





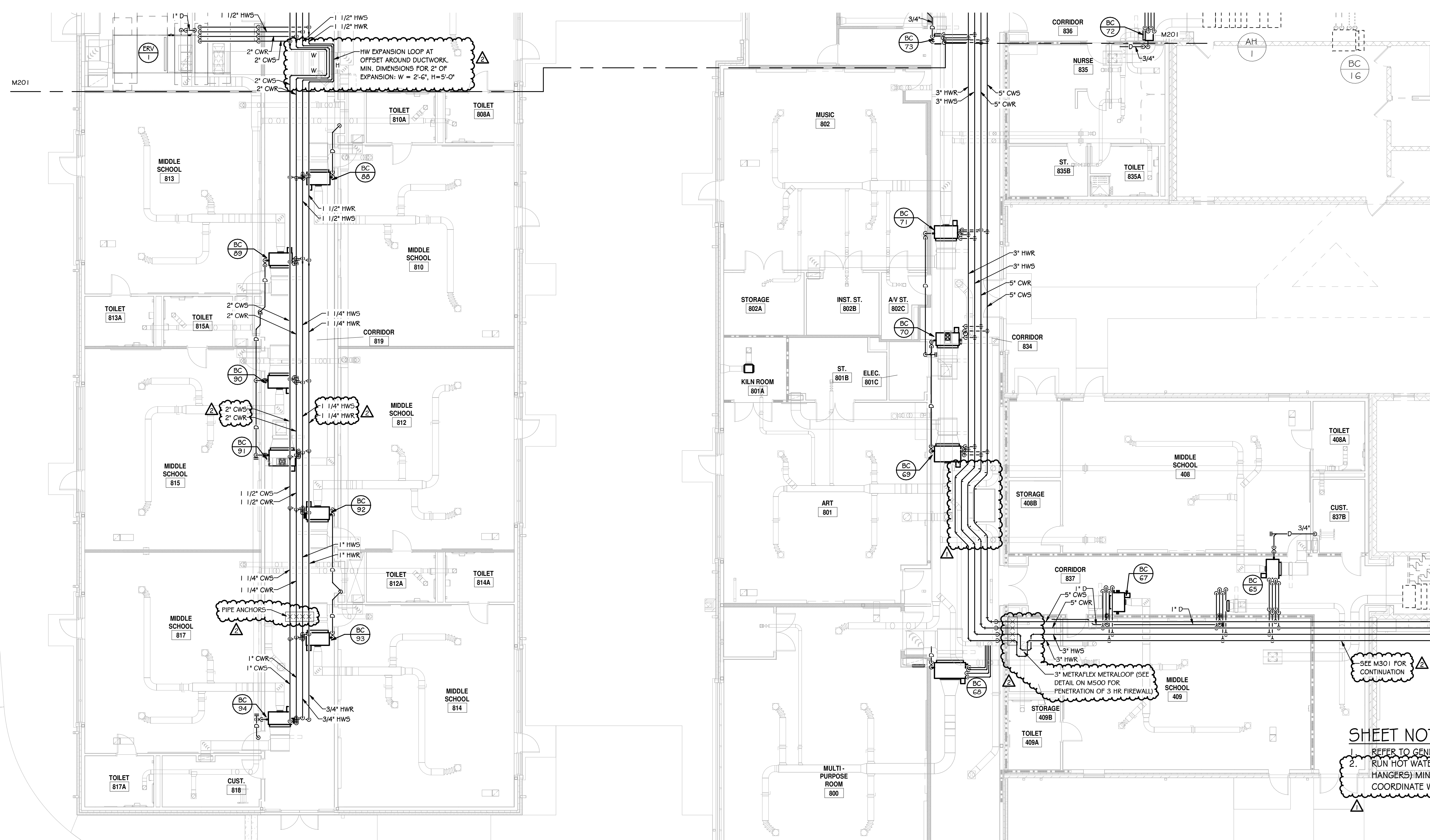
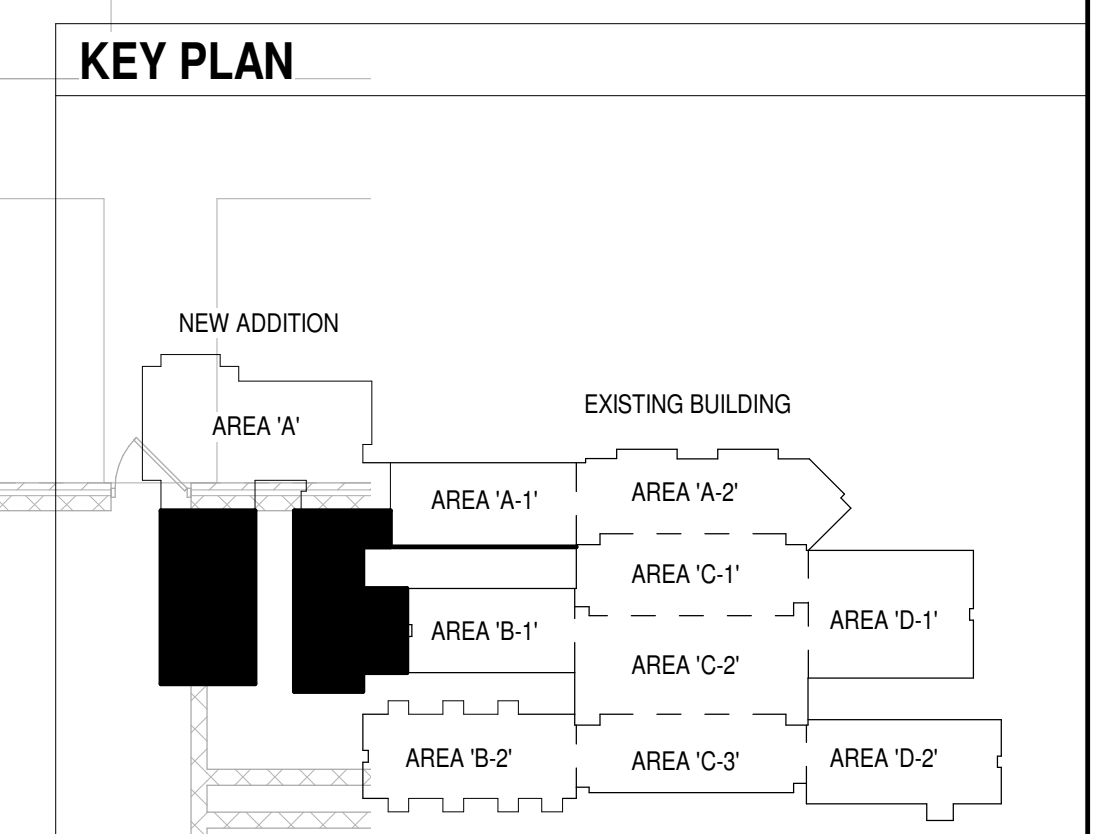
SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITION AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	
2	05/12/2021	Addendum No. 2	

SHEET NOTES:
1. REFER TO GENERAL NOTES ON SHEET M101.
2. RUN HOT WATER AND CHILLED WATER PIPING (INCLUDING HANGERS) MINIMUM 6'-8" ABOVE MECH. PLATFORM FLOOR. COORDINATE WITH ENGINEER WHERE NOT POSSIBLE.



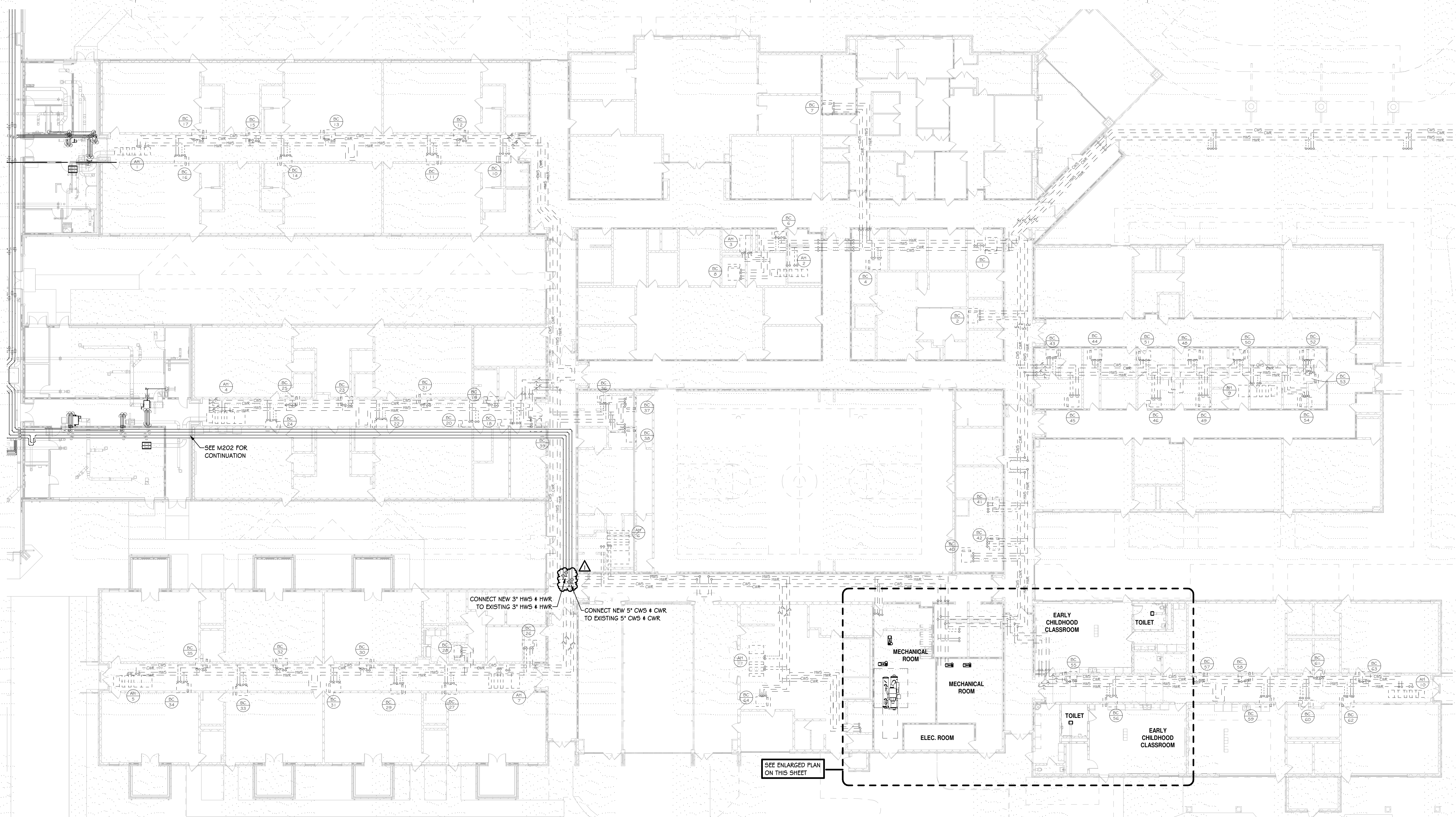
HVAC PIPING PLAN - AREA 'A' CONTINUED
1/8" = 1'-0"



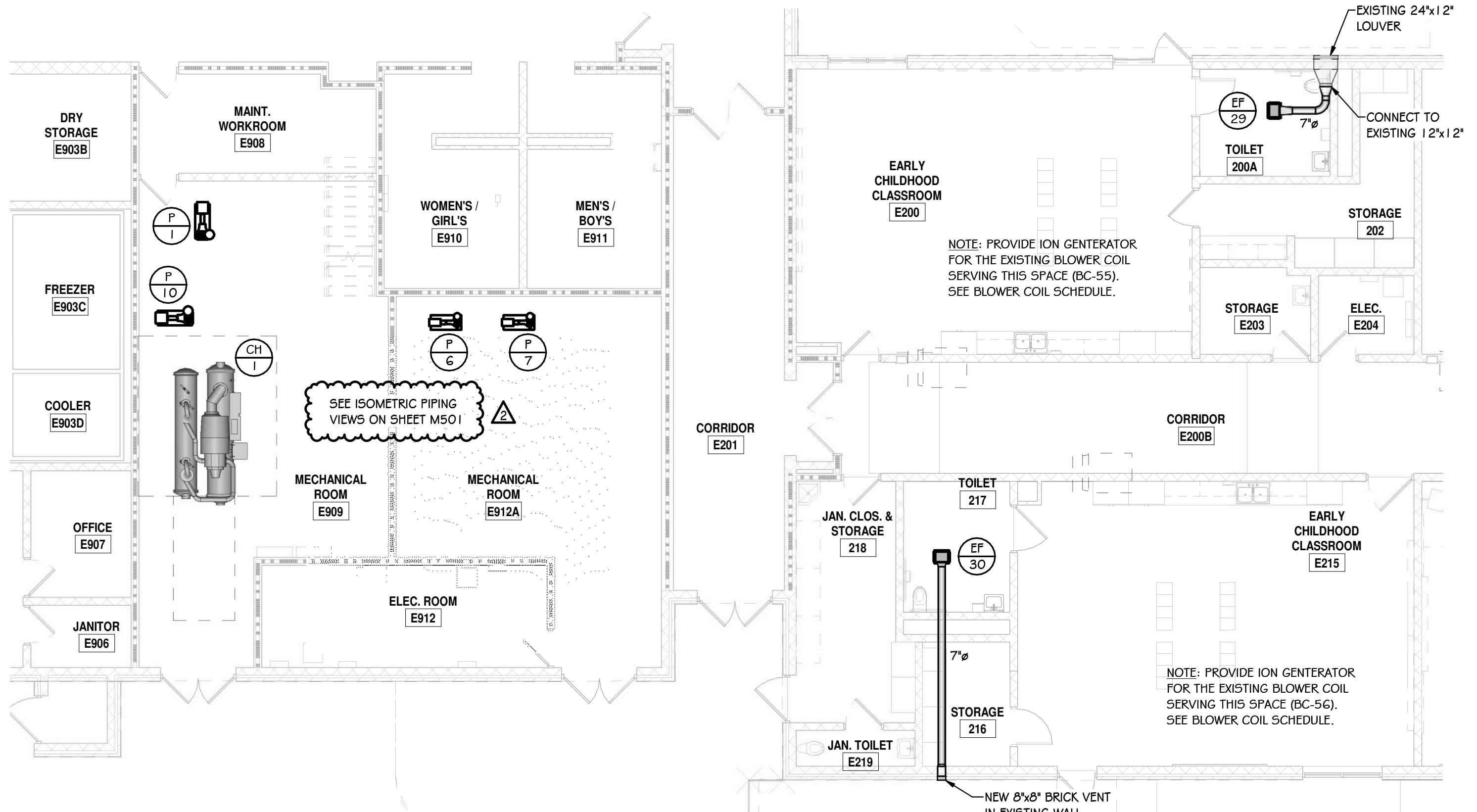
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: WCC
PROJECT ENGINEER: WHC, STB, HFC
DRAWN BY: HFC
SHEET TITLE:
AREA 'A' CONTINUED
HVAC PIPING PLAN
SHEET NO. PROJ. NO. 2022

M202

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EXISTING BUILDING HVAC PLAN
1/16" = 1'-0"

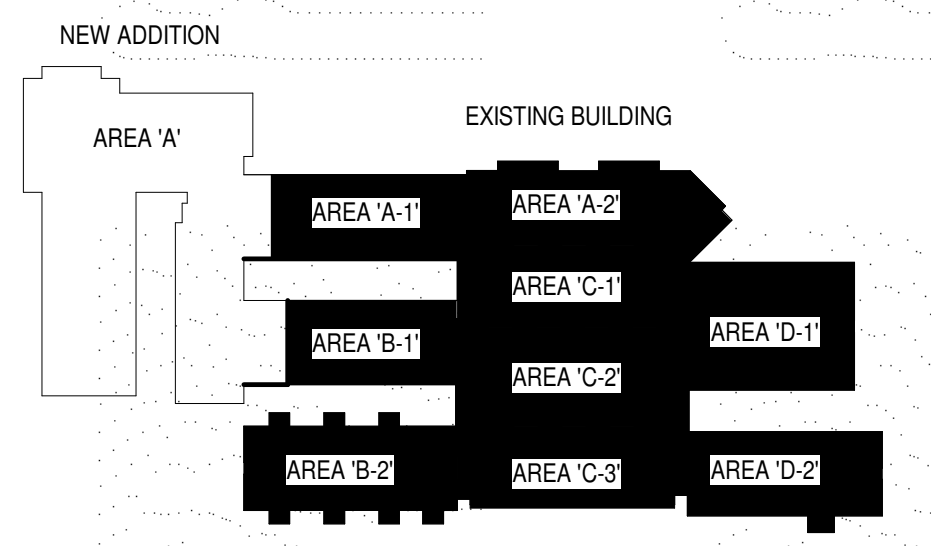


EXISTING PARTIAL AREAS 'C-3' & 'D-2'
1/8" = 1'-0"

SHEET NOTES:

1. REFER TO GENERAL NOTES ON SHEET M101.
2. SEE TAB SPECS FOR FLOW VERIFICATION OF EXISTING (OR REPLACED) CALIBRATED ORIFICE FLOW LIMITING VALVES.

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITION AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

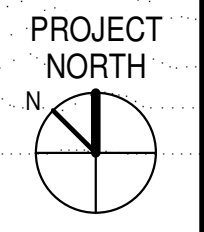
NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	
2	05/12/2021	Addendum No. 2	

CONSTRUCTION DOCUMENTS	04/19/2021
PRINCIPAL IN CHARGE:	WCC
PROJECT ENGINEER:	WHC, STB, HFC
DRAWN BY:	HFC

SHEET TITLE:
EXISTING BUILDING HVAC
PLAN

SHEET NO.	PROJ. NO.
	2022

M301



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BLOWER COIL SCHEDULE

TAG	AREA SERVED	MANUFACTURER	MODEL	SIZE	CFM	CFM O.A.	E.S.P.	VOLT	FAN HP	COOLING COIL										HEATING COIL (@ 140 DEGREE EWT)										REMARKS	TAG
										ROWS	FPI	SENSIBLE COOLING (MBH)	TOTAL CAP. (MBH)	GPM	E.W.T.	L.W.T.	WATER P.D.	PIPE BRANCH / TRIM SIZE	CONTROL VALVE P.D.	ROWS	FPI	E.A.T. (db)	L.A.T.	HEATING MBH	GPM	LWT	WATER P.D.	PIPE BRANCH / TRIM SIZE	CONTROL VALVE P.D.		
BC-65	408 MIDDLE SCHOOL	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-65	
BC-66	836 CORRIDOR	ENVIRO-TEC	CDV	8	300	--	0.55	277/1	1/4 HP	4	12	6.97	8.56	1.4	45.0	57.0	2.3	3/4"	6 PSI	2	12	72.0	101.4	9.27	0.5	105.0	0.61	3/4"	6 PSI	BC-66	
BC-67	409 MIDDLE SCHOOL	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-67	
BC-68	800 MULTIPURPOSE ROOM	ENVIRO-TEC	VDD	30	2000	--	0.5	277/1	3/4 HP (x2)	6	14	51.4	67.9	11.3	45.0	57.0	5.62	1 1/4"	6 PSI	2	12	72.0	96.1	30.5	2.9	105.0	0.15	3/4"	6 PSI	(1) BC-68	
BC-69	801 ART	ENVIRO-TEC	VDD	20	1400	--	0.5	277/1	1 HP	4	10	31.0	37.7	6.2	45.0	57.0	6.57	1"	6 PSI	2	14	72.0	95.6	36.0	2.1	105.1	0.09	3/4"	6 PSI	BC-69	
BC-70	834 CORRIDOR	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-70	
BC-71	802 MUSIC	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-71	
BC-72	835 NURSE	ENVIRO-TEC	CDV	8	300	--	0.55	277/1	1/4 HP	4	12	6.97	8.56	1.4	45.0	57.0	2.3	3/4"	6 PSI	2	12	72.0	101.4	9.27	0.5	105.0	0.61	3/4"	6 PSI	BC-72	
BC-73	833 OFFICE	ENVIRO-TEC	CDV	8	300	--	0.55	277/1	1/4 HP	4	12	6.97	8.56	1.4	45.0	57.0	2.3	3/4"	6 PSI	2	12	72.0	101.4	9.27	0.5	105.0	0.61	3/4"	6 PSI	BC-73	
BC-74	836 CORRIDOR	ENVIRO-TEC	CDV	8	300	--	0.55	277/1	1/4 HP	4	12	6.97	8.56	1.4	45.0	57.0	2.3	3/4"	6 PSI	2	12	72.0	101.4	9.27	0.5	105.0	0.61	3/4"	6 PSI	BC-74	
BC-75	832 OFFICE	ENVIRO-TEC	CDV	4	130	--	0.94	277/1	1/6 HP	3	10	2.8	3.29	0.5	45.0	57.1	1.33	3/4"	6 PSI	1	10	72.0	95.8	3.24	0.5	126.8	0.2	3/4"	6 PSI	BC-75	
BC-76	831 WORKROOM	ENVIRO-TEC	VDD	8	600	--	0.5	277/1	1/2 HP	6	12	12.5	13.8	2.3	45.0	57.0	0.35	3/4"	6 PSI	2	12	72.0	92.1	12.6	0.7	105.0	0.09	3/4"	6 PSI	BC-76	
BC-77	829 LOBBY	ENVIRO-TEC	VDD	30	2200	350	0.5	277/1	3/4 HP (x2)	6	14	57.5	70.1	11.6	45.0	57.0	1.14	1 1/4"	6 PSI	2	8	62.4	89.0	63.5	3.7	105.1	1.29	3/4"	6 PSI	BC-77	
BC-78	803 HIGH SCHOOL	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-78	
BC-79	805 SCHOOL ENTERPRISE	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-79	
BC-80	804 HORTICULTURE	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-80	
BC-81	830 CORRIDOR	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-81	
BC-82	807 JOB COACH	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-82	
BC-83	825 OFFICE	ENVIRO-TEC	CDV	4	130	--	0.94	277/1	1/6 HP	3	10	2.8	3.29	0.5	45.0	58.1	1.33	3/4"	6 PSI	1	10	72.0	95.8	3.24	0.5	126.8	0.2	3/4"	6 PSI	BC-83	
BC-84	809A CLASSROOM	ENVIRO-TEC	VDD	20	1400	--	0.5	277/1	1 HP	4	10	31.0	37.7	6.2	45.0	57.0	6.57	1"	6 PSI	2	14	72.0	95.6	36.0	2.1	105.1	0.09	3/4"	6 PSI	BC-84	
BC-85	806 INDEPENDENT WORK AREA	ENVIRO-TEC	VDD	8	600	--	0.5	277/1	1/2 HP	6	12	12.5	13.8	2.3	45.0	57.0	0.35	3/4"	6 PSI	2	12	72.0	92.1	12.6	0.7	105.0	0.09	3/4"	6 PSI	BC-85	
BC-86	811 INDEPENDENT LIVING LAB	ENVIRO-TEC	VDD	12	900	--	0.5	277/1	1/2 HP	6	14	22.3	28.8	4.8	45.0	57.0	4.33	1"	6 PSI	2	12	72.0	97.0	23.7	1.4	105.0	0.29	3/4"	6 PSI	BC-86	
BC-87	808 WORK SKILLS	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-87	
BC-88	810 MIDDLE SCHOOL	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-88	
BC-89	813 MIDDLE SCHOOL	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-89	
BC-90	815 MIDDLE SCHOOL	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-90	
BC-91	819 CORRIDOR	ENVIRO-TEC	VDD	20	1400	--	0.5	277/1	1 HP	4	10	31.0	37.7	6.2	45.0	57.0	6.57	1"	6 PSI	2	14	72.0	95.6	36.0	2.1	105.1	0.09	3/4"	6 PSI	BC-91	
BC-92	812 MIDDLE SCHOOL	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-92	
BC-93	814 MIDDLE SCHOOL	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	(2)(3) BC-93	
BC-94	817 MIDDLE SCHOOL	ENVIRO-TEC	VDD	16	1200	--	0.5	277/1	1 HP	4	14	26.4	32.5	5.4	45.0	57.1	4.02	1"	6 PSI	2	12	72.0	99.5	34.6	2.0	105.0	0.62	3/4"	6 PSI	BC-94	

BLOWER COIL NOTES:

- EXT. STATIC PRESS. INCLUDES ALL LOSSES EXTERNAL TO THE CABINET.
- TOTAL STATIC PRESS. INCLUDES E.S.P., INTERNAL LOSSES, AND DIRTY FILTER.
- HOT WATER COILS SHALL BE IN THE RE-HEAT POSITION
- PROVIDE EACH UNIT WITH A FACTORY CONTROL INTERFACE TO ALLOW THE FIELD INSTALLED APPLICATION SPECIFIC CONTROLLER CONTROL THE UNIT AND FAN SPEED.
- PROVIDE ALL UNITS WITH BI POLAR / IONIZATION UNIT (ALTERNATE #5): GLOBAL PLASMA SOLUTIONS GPS-FC-3-BAS (24 VAC, 1.2 WATTS).
- SEE SPECIFICATIONS
- PROVIDE EACH UNIT WITH A FACTORY DISCONNECT

BC REMARKS/ACCESSORIES:

- SMOKE DETECTOR
- PROVIDE 3-WAY VALVE IN LIEU OF 2-WAY VALVE ON CHILLED WATER COIL
- PROVIDE 3-WAY VALVE IN LIEU OF 2-WAY VALVE ON HOT WATER COIL

PACKAGED RESIDENTIAL STYLE RANGE HOOD

TAG	AREA SERVED	HOOD	CFM	CONFIGURATION	VOLT	POWER	MOUNTING	Manufacturer	MODEL NO.	E.S.P.	REMARKS
FRH-1	KITCHEN 115B	30" DENLAR, 1000 SERIES	172-522	SIDEWALL FAN	120V	3.7 A	WALL	DENLAR	1030-D-WF-NFA	10-.66	(1) (2)

FRH NOTES: SEE SPECIFICATIONS FOR INFORMATION ON FIRE SUPPRESSION SYSTEM

FRH REMARKS:

- ELECTRIC RANGE DISCONNECT KIT
- HANDICAP ACCESSIBLE CONTROLS

ENERGY RECOVERY VENTILATOR SCHEDULE PART 1

TAG	TRANE MODEL#	EXHAUST FAN				SUPPLY FAN				ENERGY RECOVERY WHEEL										SUPPLY AIR PRESSURE DROP	EXHAUST AIR PRESSURE DROP								
		UNIT DESIGN AIRFLOW	EXTERNAL STATIC PRESSURE	TOTAL STATIC PRESSURE	SIZE AND TYPE	MOTOR POWER	UNIT DESIGN AIRFLOW	EXTERNAL STATIC PRESSURE	TOTAL STATIC PRESSURE	SIZE AND TYPE	MOTOR POWER	MOTOR VOLTAGE	LEAVING SUPPLY AIRFLOW	SUMMER					WINTER										
ERV-1	CSAA017	4700	1.50 in-wg	2.91 in-wg	22.25" DD PLENUM	5 hp	5650	1.50 in-wg	3.60 in-wg	22.25" DD PLENUM	7.5 hp	460 V	5650	95.0 °F	74.0 °F	77.2 °F	64.0 °F	74.0 °F	62.0 °F	90.7 °F	71.7 °F	60.7 °F	0.0 °F	58.0 °F	70.0 °F	13.6 °F	0.7908	0.43 in-wg	0.47 in-wg

ENERGY RECOVERY VENTILATOR SCHEDULE PART 2

TAG	COIL PERFORMANCE AIRFLOW (CFM)	FACE AREA	FACE VELOCITY	COOLING COIL					HEATING COIL										DIRTY FILTER ALLOWANCE	REMARKS						
				FACE AREA	FACE VELOCITY	EAT (DB)	LAT (DB)	LAT (WB)	TOTAL CAPACITY	SENSIBLE CAPACITY	Fluid Flow Rate	EWT	LWT	ROWS	COOLING FINS/FT	FACE AREA	FACE VELOCITY	EAT			LAT	TOTAL CAPACITY	Flow Rate	EWT	LWT	ROWS
ERV-1	5650	16.8 5F	336 FPM	77 °F	64 °F	50 °F	50 °F	229100	169280	38.1 GPM	45.0 °F	57.0 °F	8	128	16.8 5F	336 FPM	58 °F	90.0 °F	196100 Btu/h	11.2 GPM	140.0 °F	105.0 °F	2	152	0.51 in-wg	(1) (2) (3) (4) (5)

ERV NOTES:

- EXT. STATIC PRESS. INCLUDES ALL LOSSES EXTERNAL TO THE CABINET.
- TOTAL STATIC PRESS. INCLUDES E.S.P., INTERNAL LOSSES, AND DIRTY FILTER.
- FILTER HOUSING SHALL HAVE 4" FILTER CAPACITY (SEE SPECIFICATIONS FOR SIZE/TYPE OF FILTERS REQUIRED).
- ALL ACCESS AND FAN SECTIONS SHALL HAVE HINGED ACCESS DOORS (BOTH SIDES)

ERV REMARKS:

- SMOKE DETECTOR (BY ELECTRICAL)
- PROVIDE VFD FOR SUPPLY AND EXHAUST FANS (BY MECHANICAL CONTRACTOR)
- PROVIDE FACTORY PIEZOMETER RING FOR AIRFLOW MEASUREMENT ON SUPPLY AND EXHAUST FANS
- PROVIDE 3-WAY VALVE IN LIEU OF 2-WAY VALVE ON CHILLED WATER COIL
- PROVIDE 3-WAY VALVE IN LIEU OF 2-WAY VALVE ON HOT WATER COIL

MAKEUP AIR UNIT SCHEDULE PART 1

TAG	AREA SERVED	TRANE MODEL NO.	SUPPLY CFM	O.A. CFM	ESP	TSP	FAN HP	PREHEAT COIL (INTEGRAL FACE # BYPASS)					COOLING COIL									
								E.A.T.	L.A.T.	CAPACITY (MBH)	GPM	L.W.T. @ 140°F E.W.T.	ROWS	FINS/IN	WATER P.D.	PIPE TRIM SIZE	CONTROL VALVE P.D.	E.A.T. (db/wb)	L.A.T.	SENS CAPACITY (BTU/hr)	TOTAL CAPACITY (BTU/hr)	GPM
MUA-1	FOOD PREP	CSAA10	4200	4200	2.00 in-wg	4.46 in-wg	5 HP	12.0	45.1	151.0	20.0	124.8	2	10	0.78							

EXISTING AIR HANDLER SCHEDULE					
TAG	MFR. # MODEL	DESIGN AIRFLOW (CFM)	MIN OA FLOW (CFM)	UNIT VOLTAGE	REMARKS
AH-1	Trane #03 CLIMATE CHG.	1170	1170	460/3	
AH-2	Trane #03 CLIMATE CHG.	1410	1410	460/3	
AH-3	Trane #12 L. P. CLIMATE CHG.	4100	465	460/3	(1)
AH-4	Trane #03 CLIMATE CHG.	1150	1150	460/3	
AH-5	Trane #06 CLIMATE CHG.	1510	1510	460/3	
AH-6	Trane #30 CLIMATE CHG.	10845	3790	460/3	(1)
AH-7	Trane #10 CLIMATE CHG.	2730	450	460/3	(1)
AH-8	Trane #12 CLIMATE CHG.	4900	4900	460/3	
AH-9	Trane #08 CLIMATE CHG.	1750	1750	460/3	
AH-10	Trane #03 CLIMATE CHG.	1280	1280	460/3	
AH-11	Trane #03 CLIMATE CHG.	2730	450	460/3	(1)

NOTES/REMARKS:
(1) INSTALL NEW BIPOLAR IONIZATION UNIT - GPS IMOD ON AIR HANDLER (PER ALTERNATE #5)

UNIT HEATER SCHEDULE									
TAG	CFM	VOLTAGE	K.W.	BTU/H OUTPUT	MOUNTING	DISCHARGE ARRANGEMENT	MANUFACTURER	MODEL	REMARKS
UH-1	400	277/1	3.3	11.2	HIGH SIDEWALL	HORIZONTAL	MARKEL	5100 SERIES	1, 2, 3

REMARKS:
1. DISCONNECT
2. BUILT-IN THERMOSTAT
3. WALL MOUNT BRACKET

AIR DEVICE SCHEDULE							
TAG	NECK SIZE	NOMINAL FACE SIZE	SERVICE	MOUNTING	MANUFACTURER	MODEL	REMARKS
A1	6 x 6	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	
A2	9 x 9	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	
A3	12 x 12	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	
A4	15 x 15	24 x 24	SUPPLY	LAY IN, T-BAR	PRICE	SMD	
B1	6 x 6	11 x 11	SUPPLY	CEILING, SURFACE	PRICE	SMD	WOBD
B2	9 x 9	14 x 14	SUPPLY	CEILING, SURFACE	PRICE	SMD	WOBD
B3	12 x 12	17 x 17	SUPPLY	CEILING, SURFACE	PRICE	SMD	WOBD
C1	12 x 6	14 x 8	SUPPLY	LOW SIDEWALL	PRICE	920	
D1	18 x 12	20 x 14	SUPPLY	HIGH SIDEWALL	PRICE	520	
E1	6 x 6	24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
E2	8 x 8	24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
E3	10 x 10	24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
E4	12 x 12	24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
E5	14 x 14	24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
E6	18 x 18	24 x 24	RETURN	LAY IN, T-BAR	PRICE	PDDR	
F1	14 x 8	16 x 10	RETURN	LOW SIDEWALL	PRICE	93	
F2	18 x 18	20 x 20	RETURN	LOW SIDEWALL	PRICE	93	
F3	20 x 26	22 x 40	RETURN	LOW SIDEWALL	PRICE	93	
F4	22 x 36	24 x 38	RETURN	LOW SIDEWALL	PRICE	93	
F5	24 x 24	26 x 26	RETURN	LOW SIDEWALL	PRICE	93	
F6	36 x 48	38 x 50	RETURN	LOW SIDEWALL	PRICE	93	
G1	20 x 20	24 x 24	RETURN	LAY IN, T-BAR	PRICE	80	
H1	10 x 10	14 x 14	RETURN	CEILING, SURFACE	PRICE	10	

AIR DEVICE NOTES:
• BLOW TYPE SHALL BE 4-WAY UNLESS INDICATED OTHERWISE ON THE FLOOR PLANS
• COORDINATE EXACT LOCATIONS WITH REFLECTED CEILING PLANS
• PROVIDE SQUARE TO ROUND TRANSITION AS REQUIRED
• WHERE TWO RETURN AIR GRILLS ARE JOINED TOGETHER, (SEE GRILL JOINING DETAIL)
• ADJUST HORIZONTAL BLADES FOR 15 DEGREES UPWARDS, ALL SIDEWALL SUPPLY REGISTERS
• AIR DEVICES TAGGED WITH 'ST' SHALL HAVE A SOUND TRAP. (SEE DETAIL SOUND TRAP DETAIL)

EXHAUST FAN SCHEDULE										
TAG	AREA SERVED	CFM	S.P. (IN WG)	HP OR WATTS	ELEC. PH	FAN RPM	SONES	MOUNTING	MAKE / MODEL NO.	REMARKS
EF-25	KILN ROOM	400	0.5	1/10 HP	115/1	1646	8.2	INLINE	GREENHECK 5Q-90-VG	(1) (2) (1) (1) (2)
EF-26	KITCHEN HOOD EXHAUST	4305	1.0	5 HP	460/3	1231	24	ROOF	CAPTIVAIRE DU200HFA	(1) (4) (6) (8) (9) (10)
EF-27	DISHWASH	600	0.5	1/10 HP	115/1	1675	8.4	ROOF	GREENHECK CUE-090-VG	(1) (2) (4) (5) (8)
EF-28	MECH ROOM	1000	0.5	1/4 HP	115/1	1524	8.8	INLINE	GREENHECK 5Q-100-VG	(1) (2) (3) (5) (12) (13)
EF-29	TLT E200A	75	0.3	76 WATTS	277/1	950	0.9	CEILING	GREENHECK 5P-A110	(1) (2)
EF-30	TLT E217	75	0.3	76 WATTS	277/1	950	0.9	CEILING	GREENHECK 5P-A110	(1) (2)

REMARKS:
1. DISCONNECT SWITCH
2. BACKDRAFT DAMPER
3. VIBRATION ISOLATORS
4. BIRD SCREEN
5. MOTOR STARTER
6. VARIABLE FREQUENCY DRIVE
7. ACOUSTICALLY LINED MOTOR AND HOUSING
8. ROOF CURB (WIND RATED) TO MATCH ROOF SLOPE (SEE ARCH DRAWINGS.)
9. UL 762 RATED # HINGED ROOF CURB
10. MOTOR STARTERS/RELAYS FOR INTERLOCK WITH EXHAUST HOOD CONTROLS. (SEE SPECS. AND SEQUENCE OF OPERATIONS.)
11. TIMED WALL SWITCH BY CONTROLS
12. THERMOSTAT (FURNISHED BY HVAC CONTRLS)
13. OSHA MOTOR SIDE GUARD
14. WALL SWITCH (PROVIDED BY HVAC CONTROLS)
15. CURB INLET SCREEN
16. CARBON MONOXIDE CONTROLS. SEE SPECIFICATIONS
17. FAN SPEED CONTROL SWITCH (PROVIDED BY HVAC CONTROLS)
18. ACID RESISTANT COATING
19. WALL HOUSING WITH OSHA INLET GUARD
20. RELAY

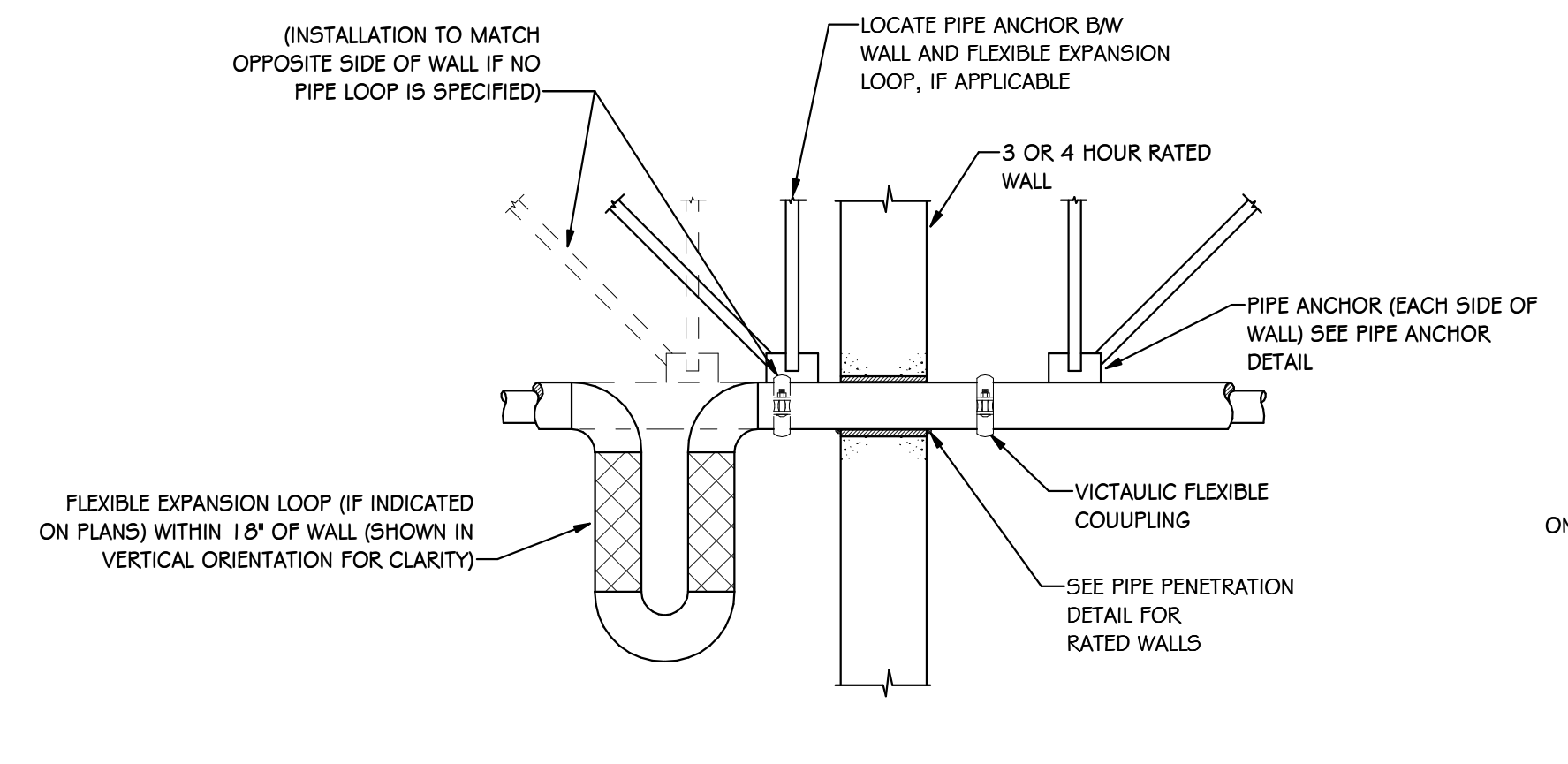
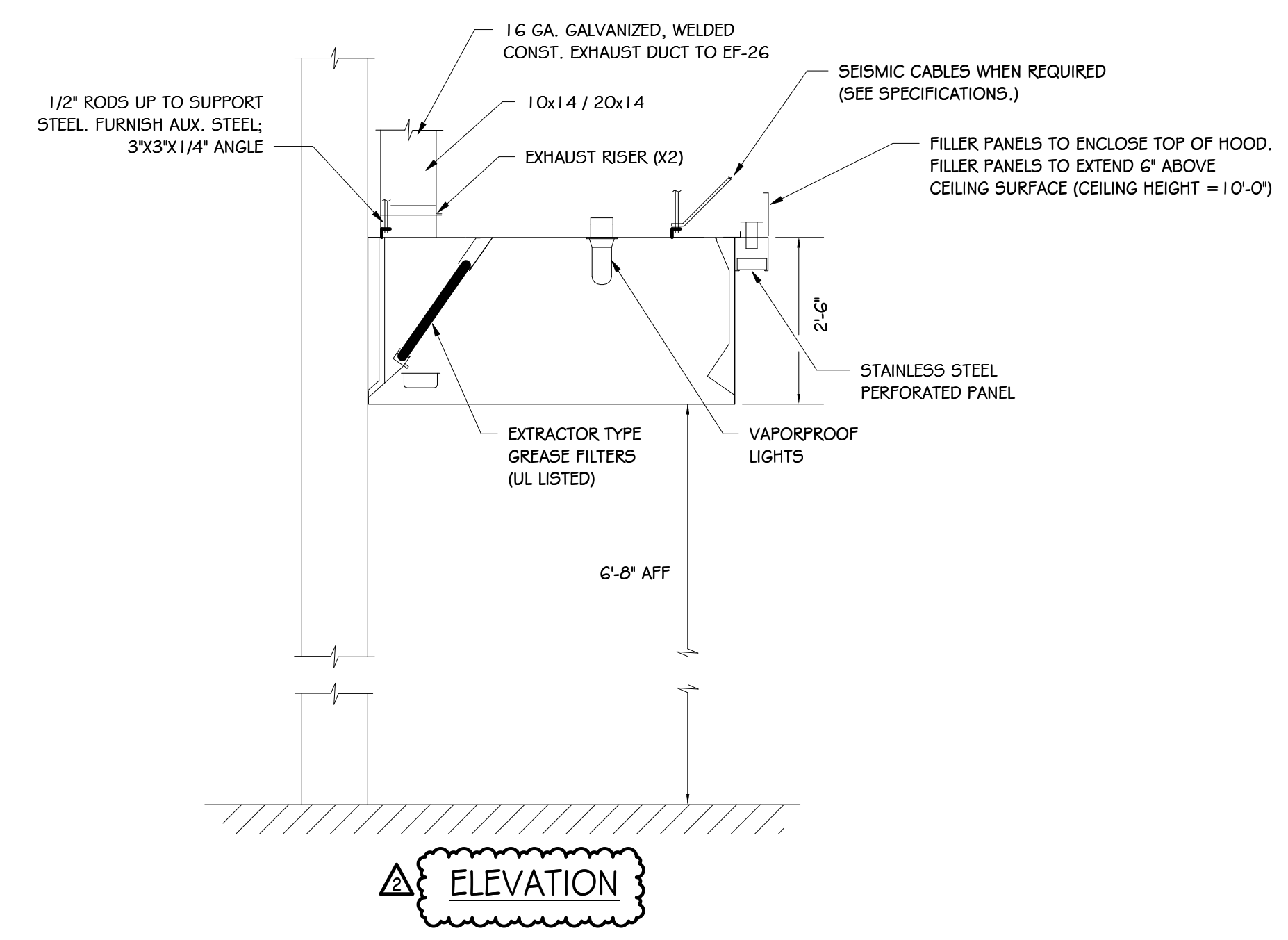
PUMP SCHEDULE													
TAG	LOCATION	SERVICE	GPM	FT. HEAD	TYPE	PUMP MOTOR HP	VOLT	PUMP RPM	MANUFACTURER	Model	TRIPLE DUTY VALVE	REMARKS	
											SIZE	Cv	
P-1	MECHANICAL A278	CW DISTRIBUTION	560	115	BASE MOUNTED, CENTRIFUGAL	25	460/3	1625	B * G	3 GB	--	--	(1)
P-6	MECHANICAL A277	HW DISTRIBUTION	210	120	BASE MOUNTED, CENTRIFUGAL	15	460/3	1610	B * G	2 GB	--	--	(1)
P-7	MECHANICAL A277	HW DISTRIBUTION (STAND-BY)	210	120	BASE MOUNTED, CENTRIFUGAL	15	460/3	1610	B * G	2 GB	--	--	(1)
P-10	MECHANICAL A278	CW DISTRIBUTION (STAND-BY)	560	115	BASE MOUNTED, CENTRIFUGAL	25	460/3	1625	B * G	3 GB	--	360	(1)

REMARKS/ACCESSORIES:
1. VARIABLE FREQUENCY DRIVE

EXISTING BLOWER COIL SCHEDULE												
TAG	ROOM NAME	DESIGN AIRFLOW (CFM)	MIN OA FLOW (CFM)	UNIT VOLTAGE	MOTOR HP	COOLING FLOW (GPM)	PIC VALVE SIZE	HEATING FLOW (GPM)	PIC VALVE SIZE	MAKE # MODEL	REMARKS	
BC-1	Vest A100	1600	0	460/60/3	3/4	7.6	1-1/4	3.53	I	Trane BC_B 054		
BC-2	Clinic C129-32	775	170	115/60/1	1/4	3.7	I	1.40	3/4	Trane BC_B 036	(1) (3)	
BC-3	NOT USED											
BC-4	Speech C101-37	850	250	115/60/1	1/3	3.8	I	1.50	3/4	Trane BC_B 036	(1) (3)	
BC-5	NOT USED											
BC-6	Corr A102,126	900	0	115/60/1	1/3	5.2	I	1.40	3/4	Trane BC_B 036		
BC-7	Computer-A125	1150	215	460/60/3	1/2	5.3	I	1.71	3/4	Trane BC_B 036	(1) (3)	
BC-8	P/T,O/T-C116	1650	305	460/60/3	3/4	7.2	1-1/4	2.55	3/4	Trane BC_B 054	(1) (3)	
BC-9	NOT USED											
BC-10	Corr-A133	750	0	115/60/1	1/3	4.6	I	2.02	3/4	Trane BC_B 036		
BC-11	PD-A154	940	195	115/60/1	1/3	4.4	I	1.54	3/4	Trane BC_B 036	(1) (3)	
BC-12	PD-A136	900	195	115/60/1	1/3	4.3	I	1.51	3/4	Trane BC_B 036	(1) (3)	
BC-13	PD-A140	900	195	115/60/1	1/3	4.2	I	1.51	3/4	Trane BC_B 036	(1) (3)	
BC-14	PD-A151	950	195	115/60/1	1/3	4.4	I	1.56	3/4	Trane BC_B 036	(1) (3)	
BC-15	Corr-A134	750	0	115/60/1	1/3	3.9	I	1.27	3/4	Trane BC_B 036		
BC-16	PD-A147	950	195	115/60/1	1/3	4.5	I	1.56	3/4	Trane BC_B 036	(1) (3)	
BC-17	PD-A144	900	195	115/60/1	1/3	4.2	I	1.51	3/4	Trane BC_B 036	(1) (3)	
BC-18	Wrk Rm-B121	620	50	460/60/3	1/2	2.6	3/4	0.84	3/4	Trane BC_B 018	(1) (3)	
BC-19	Multi Sens.-B100	400	100	115/60/1	1/4	1.8	3/4	0.85	3/4	Trane BC_B 012	(1) (3)	
BC-20	Coordinate.-B120	250	40	115/60/1	1/4	1.3	3/4	0.66	3/4	Trane BC_B 012	(1) (3)	
BC-21	OD-B105	880	195	115/60/1	1/3	4.1	I	1.50	3/4	Trane BC_B 036	(1) (3)	
BC-22	OD-B116	940	195	115/60/1	1/3	4.4	I	1.54	3/4	Trane BC_B 036	(1) (3)	
BC-23	Corr-B102	550	100	115/60/1	1/3	3.0	3/4	1.21	3/4	Trane BC_B 018		
BC-24	OD-B112	950	195	115/60/1	1/3	4.5	I	1.55	3/4	Trane BC_B 036	(1) (3)	
BC-25	Trans/Sur-B109	900	195	115/60/1	1/3	4.2	I	1.51	3/4	Trane BC_B 036	(1) (3)	
BC-26	IEP Cont.-B122	250	60	115/60/1	1/4	1.3	3/4	0.65	3/4	Trane BC_B 012	(1) (3)	
BC-27	Train. Dis-B145	840	195	115/60/1	1/3	3.4	3/4	1.47	3/4	Trane BC_B 036	(1) (3)	
BC-28	Behavior B125-31	380	85	115/60/1	1/4	1.8	3/4	0.82	3/4	Trane BC_B 012	(1) (3)	
BC-29	Train. Dis-B143	840	195	115/60/1	1/3	3.4	3/4	1.46	3/4	Trane BC_B 036	(1) (3)	
BC-30	Train. Dis-B133	780	195	115/60/1	1/3	3.6	I	1.41	3/4	Trane BC_B 036	(1) (3)	
BC-31	Corr-B124	750	0	115/60/1	1/4	3.4	3/4	1.27	3/4	Trane BC_B 036		
BC-32	Train. Dis-B135	780	195	115/60/1	1/3	3.6	I	1.41	3/4	Trane BC_B 036	(1) (3)	
BC-33	Train. Dis-B141	840	195	115/60/1	1/3	3.4	3/4	1.46	3/4	Trane BC_B 036	(1) (3)	
BC-34	Train. Dis-B139	840	195	115/60/1	1/3	3.9	I	1.46	3/4	Trane BC_B 036	(1) (3)	
BC-35	Train. Dis-B137	800	195	115/60/1	1/3	3.7	I	1.43	3/4	Trane BC_B 036	(1) (3)	
BC-36	Therapy-C117,24	500	140	115/60/1	1/3	2.5	3/4	0.81	3/4	Trane BC_B 018	(1) (3)	
BC-37	Corr-C105,115	600	0	460/60/3	1/2	3.7	I	0.80	3/4	Trane BC_B 018		
BC-38	Whirlpool-C146	1100	40	460/60/3	1/2	7.8	1-1/4	1.57	3/4	Trane BC_B 036	(1) (3)	
BC-39	Corr-C114,167	2000	0	460/60/3	3/4	9.3	1-1/4	4.67	I	Trane BC_B 072		
BC-40	Corr-C149	750	0	115/60/1	1/3	3.2	3/4	1.27	3/4	Trane BC_B 036		
BC-41	Wrk Rm-C140	450	40	115/60/1	1/4	2.0	3/4	0.71	3/4	Trane BC_B 018	(1) (3)	
BC-42	Corr-C166,67	1120	0	460/60/3	1/2	6.2	I	2.65	3/4	Trane BC_B 036		
BC-43	Psych.-D125-7	250	60	115/60/1	1/4	1.5	3/4	0.66	3/4	Trane BC_B 012	(1) (3)	
BC-44	ED-D101	840	195	115/60/1	1/3	3.9	I	1.47	3/4	Trane BC_B 036	(1) (3)	
BC-45	ED-D138	880	195	115/60/1	1/3	4.1	I	1.52	3/4	Trane BC_B 036	(1) (3)	
BC-46	Book/Eq-D137	250	75	115/60/1	1/4	1.5	3/4	0.66	3/4	Trane BC_B 012	(1) (3)	
BC-47	NOT USED											
BC-48	Offices C122-2	840	280	115/60/1	1/3	3.4	3/4	1.53	3/4	Trane BC_B 036	(1) (3)	
BC-49	ED-D135	880	205	115/60/1	1/3	4.1	I	1.50	3/4	Trane BC_B 036	(1) (3)	
BC-50	Multi Pump-D104	840	195	115/60/1	1/3	3.9	I	1.47				

SHEET NOTES:

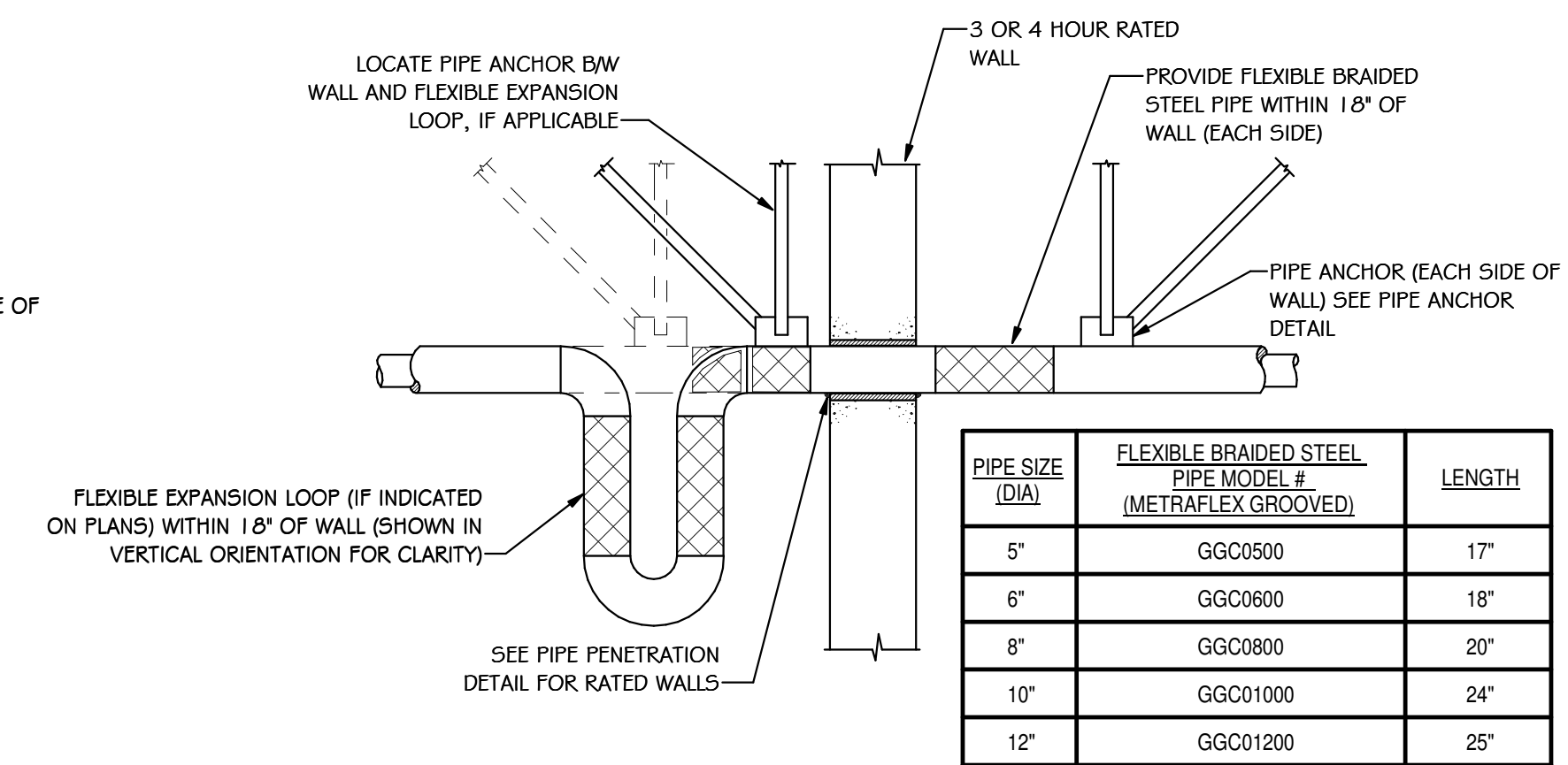
- REFER TO GENERAL NOTES ON SHEET M101.



**FLEXIBLE COUPLING AT RATED WALL DETAIL-
PIPE UP TO 4"Ø**

NO SCALE

NOTE: WHERE FLEXIBLE EXPANSION LOOP IS SPECIFIED NEAR 3-HOUR WALL (SEE PLANS), SUBSTITUTE FLEXIBLE EXPANSION LOOP FOR FLEXIBLE COUPLING, AND LOCATE PIPE ANCHOR BETWEEN WALL AND PIPE LOOP.

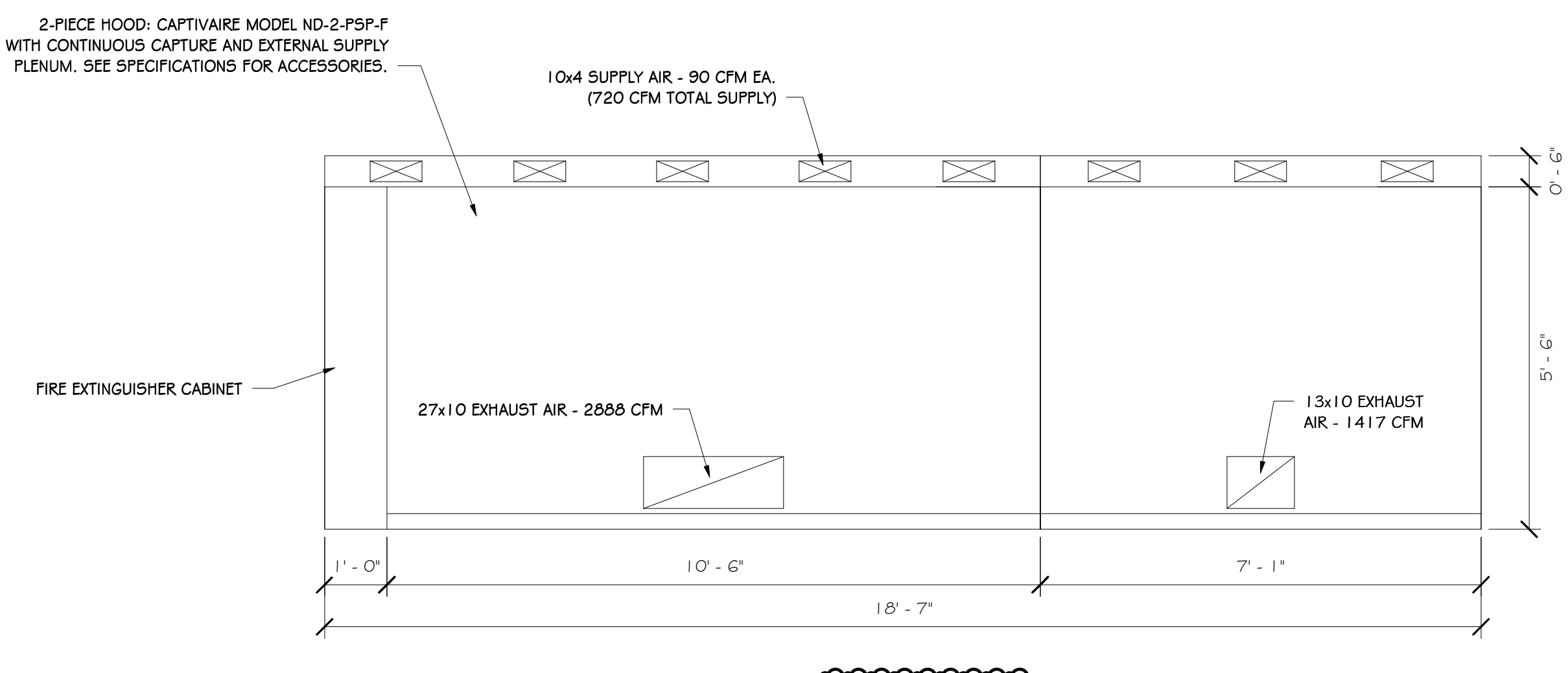


**FLEXIBLE PIPE AT RATED WALL DETAIL-
PIPE LARGER THAN 4"Ø**

NO SCALE

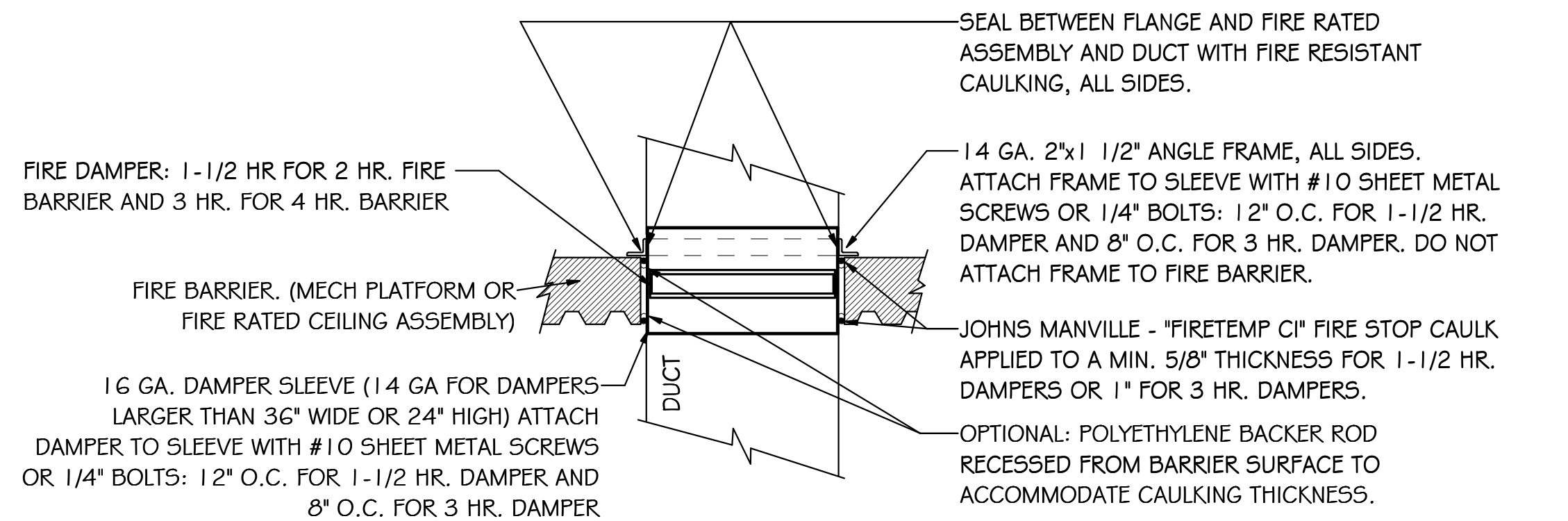
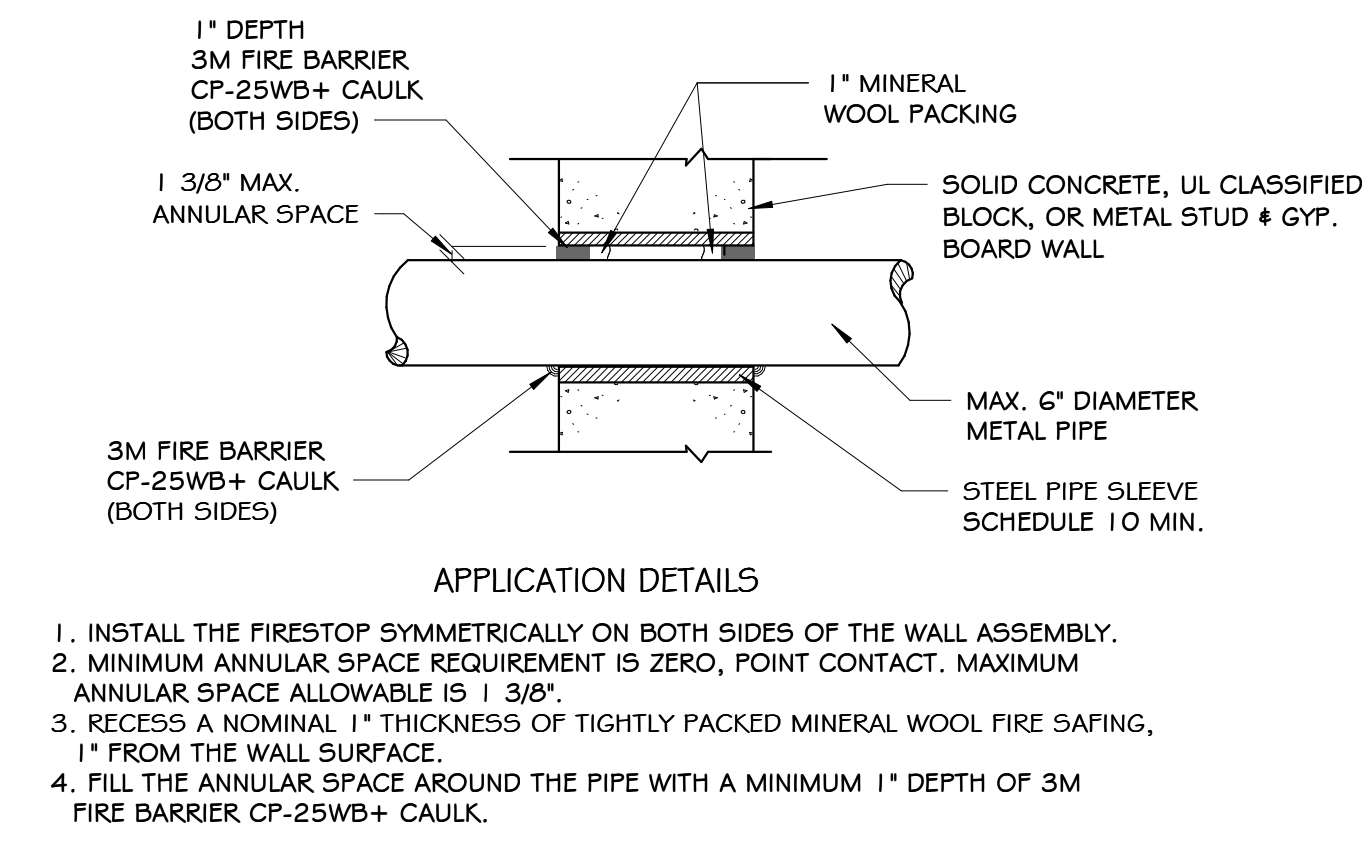
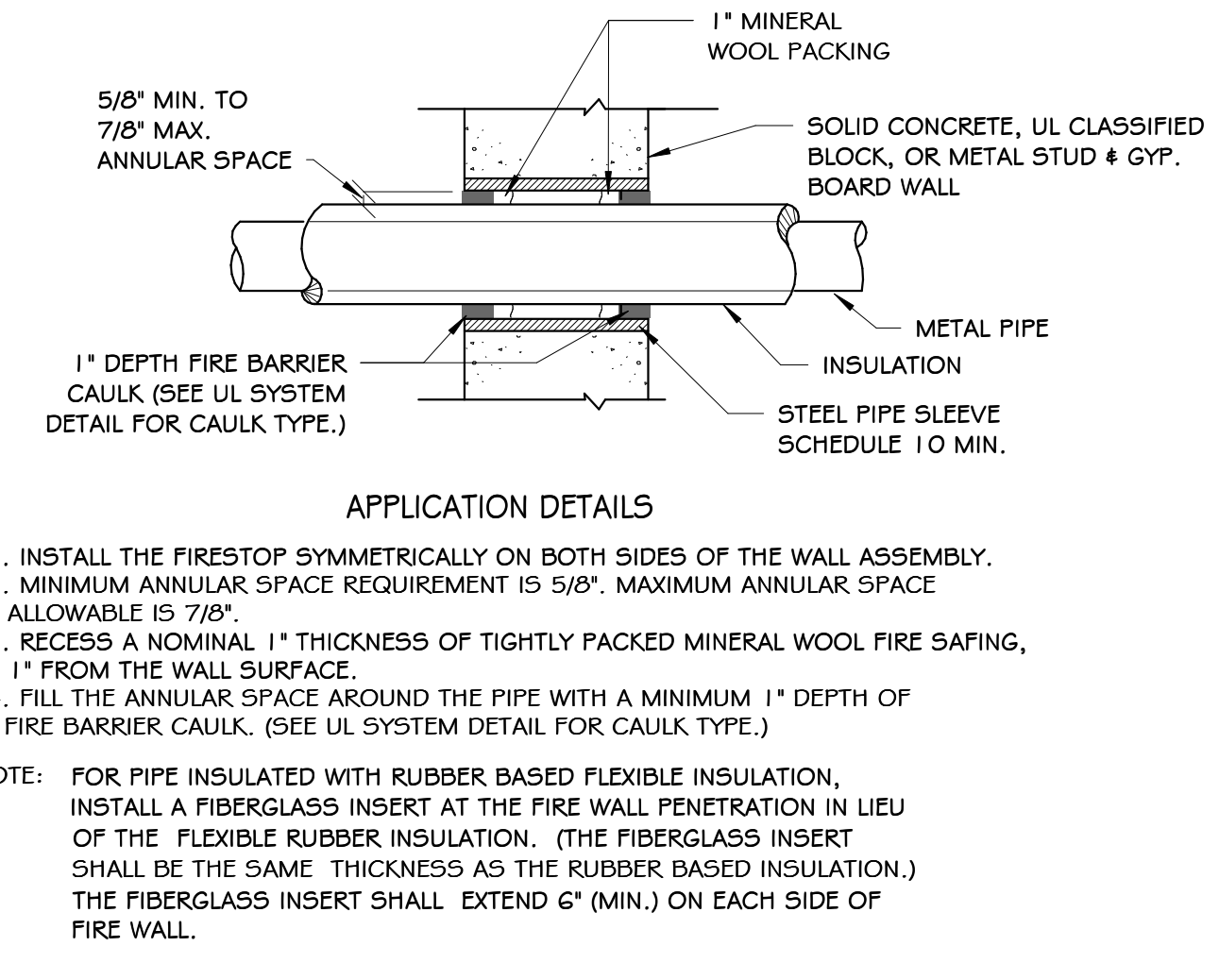
NOTE: WHERE FLEXIBLE EXPANSION LOOP IS SPECIFIED NEAR 3-HOUR WALL (SEE PLANS), SUBSTITUTE FLEXIBLE EXPANSION LOOP FOR FLEXIBLE BRAIDED STEEL PIPE, AND LOCATE PIPE ANCHOR BETWEEN WALL AND PIPE LOOP.

PIPE SIZE (DIA)	FLEXIBLE BRAIDED STEEL PIPE MODEL # (METRAGLEX GROOVED)	LENGTH
5"	GGC0250	17"
6"	GGC0600	18"
8"	GGC0800	20"
10"	GGC1000	24"
12"	GGC1200	25"



KITCHEN RANGE HOOD DETAILS

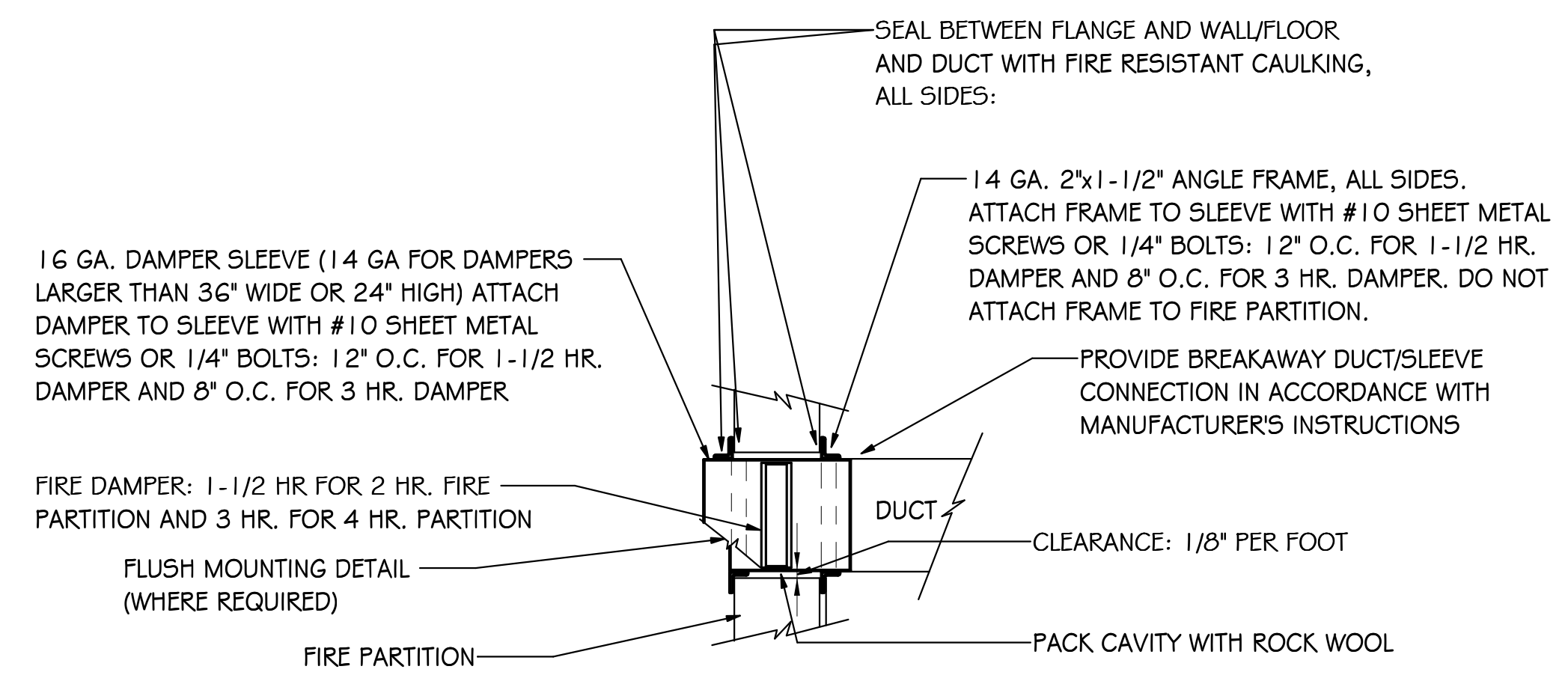
SCALE: 1/2" = 1'-0"



FIRE DAMPER INSTALLATION DETAIL

(FOR FIRE RATED CEILING ASSEMBLY OR MECH PLATFORM)

NO SCALE

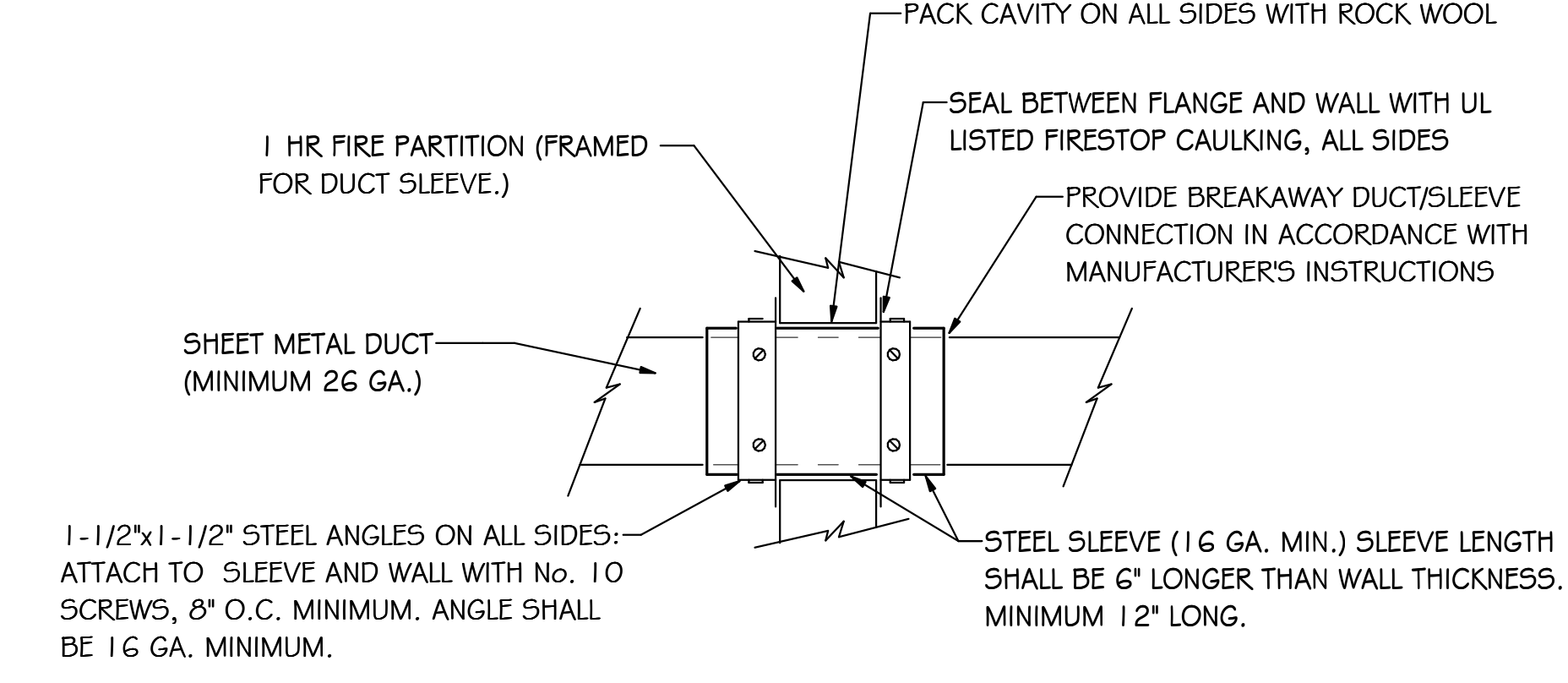


FIRE DAMPER INSTALLATION DETAIL

APPLIES TO FIRE WALL, FIRE BARRIER, OR FIRE PARTITION.

NO SCALE

- NOTES:**
- FIRE DAMPER SHALL BE SIZED FOR METAL TO METAL DUCT DIMENSIONS. PARTITION OPENING SHALL BE SIZED FOR 1/8" CLEARANCE PER FOOT OF WIDTH OR HEIGHT.
 - REFER TO MANUFACTURER'S RECOMMENDATIONS FOR ADDITIONAL DETAIL.
 - ALTERNATE INSTALLATION DETAILS SHALL BE ACCEPTABLE IF SHOWN TO BE IN COMPLIANCE WITH NFPA 90A & MFR'S LISTING.
 - FOR INSULATED DUCTS: WRAP EXPOSED PORTION OF SLEEVE WITH 2" THICK, 3/4 PCF DENSITY FIBERGLASS INSULATION WITH FOIL FACING, STAPLE AND SEAL WITH FABRIC AND MASTIC.
 - ACCESS DOOR WHERE REQUIRED, SEE SPECIFICATIONS.



DUCT CLOSURE DETAIL AT ALL PENETRATIONS OF ONE HOUR FIRE PARTITIONS NOT REQUIRING DAMPERS, PENETRATIONS OF SMOKE BARRIERS, PENETRATIONS OF SOUND WALLS.

NO SCALE

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITION AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04/29/2021	Addendum No. 1	
2	05/12/2021	Addendum No. 2	

CONSTRUCTION DOCUMENTS 04/19/2021

PRINCIPAL IN CHARGE: WCC
PROJECT ENGINEER: WHC, STB, HFC
DRAWN BY: HFC

SHEET TITLE:
HVAC DETAILS

SHEET NO. PROJ. NO.
2022

M500

GENERAL NOTES

- ALL ELECTRICAL WORK SHALL BE EXECUTED IN ACCORDANCE WITH THE 2017 VERSION OF THE NATIONAL ELECTRICAL CODE AND ALL OTHER LOCAL CODES, LAWS, AND ORDINANCES, WHERE ONE CODE DIFFERS FROM ANOTHER, THE STRICTER OF THE TWO SHALL APPLY.
- IT IS THE DUTY OF THE ELECTRICAL CONTRACTOR TO BE FAMILIAR WITH THE CONSTRUCTION DETAILS OF THE BUILDING. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE ELECTRICAL SYSTEM WITH ALL OTHER TRADES AND SHALL COMPLETE THE ELECTRICAL INSTALLATION AS SOON AS CONDITIONS WILL ALLOW.
- ALL WORK SHALL BE DONE IN A NEAT, QUALITY MANNER WITH ALL WIRING AND RACEWAYS CONCEALED.
- ALL ELECTRICAL DRAWINGS ARE GENERALLY DIAGRAMMATIC IN NATURE. THE ELECTRICAL CONTRACTOR SHALL CLOSELY COORDINATE ALL ELECTRICAL WORK WITH ALL OTHER TRADES WORKING ON THE PREMISES.
- ELECTRICAL CONTRACTOR SHALL CONTACT THE ARCHITECT AFTER INSTALLATION OF ALL SWITCH, RECEPTACLE, TELEPHONE, TELEVISION, AND LIGHTING BOXES FOR AN ON-SITE REVIEW BEFORE ANY WIRING IS INSTALLED OR WALL SURFACES ARE COMPLETE. THE ARCHITECT MAY, AT THIS POINT, MAKE ADJUSTMENTS TO THE BOX LOCATIONS AS DESIRED.
- WHERE CONDUIT AND WIRING HAS NOT BEEN SHOWN ON THE DRAWINGS THE ARRANGEMENT AND ROUTING OF LIGHTING AND RECEPTACLE BRANCH CIRCUITS WILL BE AT THE CONTRACTOR'S DISCRETION IN ACCORDANCE WITH GENERALLY ACCEPTED GOOD PRACTICE, N.E.C. REQUIREMENTS AND THE FOLLOWING LIMITATIONS:
 - SIZE BRANCH CIRCUIT CONDUCTORS WITHIN THE FOLLOWING MAXIMUM LENGTH LIMITS: (MEASURE TO THE CENTER OF THE LOAD FOR LIGHTING FIXTURES AND THE MOST REMOTE OUTLET FOR RECEPTACLE CIRCUITS)

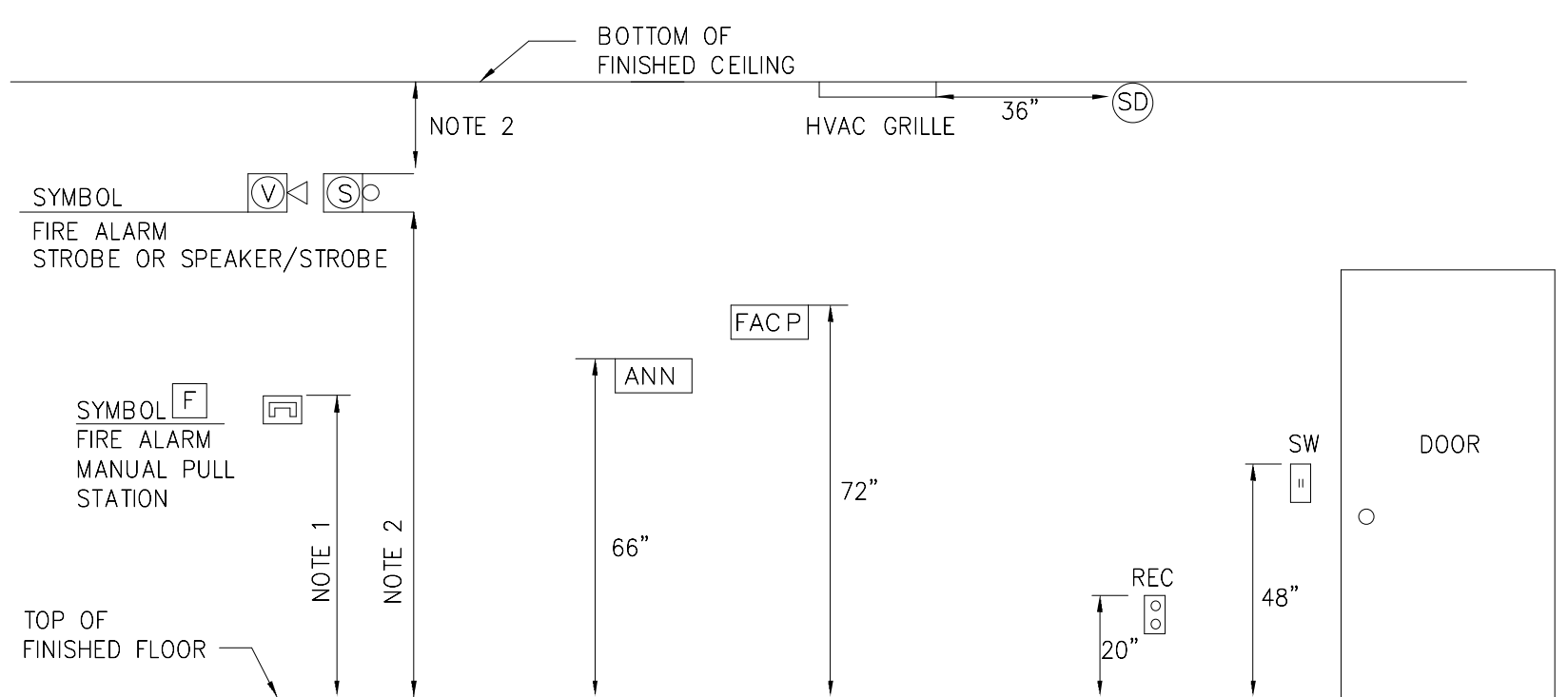
	#12	#10	#8	#6
120V., 20A.	85'	110'	165'	270'
277V., 20A.	160'	250'	390'	600'
- THIS PROJECT TO MEET NFPA 72 AND ADA REQUIREMENTS REGARDING MOUNTING HEIGHTS OF ELECTRICAL DEVICES.
- RECESSED LIGHTING FIXTURES MUST HAVE 1/2" CLEARANCE FROM COMBUSTIBLE MATERIALS AND 3" CLEARANCE FROM INSTALLATION OR BE IC RATED PER ARTICLE 410.116 (A) 1 AND 2 AND 410.116 (B) OF THE 2017 NEC.
- DURING CONSTRUCTION OPERATIONS, THE ELECTRICAL CONTRACTOR SHALL FAITHFULLY MAKE A RECORD OF ALL APPROVED CHANGES FROM THE CONTRACT DRAWINGS, INCLUDING ACCURATE DIMENSIONS WHERE APPLICABLE, AND SHALL ALSO RECORD ACCURATE DIMENSIONS LOCATING ALL BELOW-GRADE OUTSIDE ELECTRICAL UTILITIES (WHETHER CHANGED OR NOT) WITH REFERENCE TO PERMANENT ABOVE-GRADE OBJECTS. AT THE COMPLETION OF THE WORK ALL SUCH CHANGES SHALL BE RECORDED NEATLY IN RED INK BY THE ELECTRICAL CONTRACTOR ON AN UNDATED SET OF THE ELECTRICAL CONTRACT DRAWINGS SUPPLIED BY THE ARCHITECT. THE RED LINE CHANGES SHALL BE REVIEWED AND APPROVED BY THE ENGINEER AND THE COMPLETED RECORD PRINTS RETURNED TO THE ARCHITECT.
- MINIMUM SIZE CONDUIT FOR 20A CIRCUITS IS 3/4" CONDUIT FOR METALLIC AND PVC CONDUIT. MC CABLE IS PERMISSIBLE FOR LIGHT FIXTURE WHIPS ONLY (LESS THAN 6 FEET) PROVIDED THAT THEY ARE FURNISHED BY THE LIGHTING MANUFACTURER.
- ALL PRE-WIRED EQUIPMENT MUST BE LISTED AND LABELED BY AN APPROVED TESTING AGENCY PER ARTICLE 110.3 (A AND B) OF THE 2017 NEC.
- THE TERMINATION PROVISIONS OF EQUIPMENT MUST BE USED IN DETERMINING THE AMPACITIES OF CONDUCTORS BASED ON TABLE 310.16 REGARDLESS OF THE INSTALLATION RATING OF THE CONDUCTORS PER ARTICLE 110.14 (C) 1 AND 2 OF THE 2017 NEC.
- FLASH PROTECTION WARNING LABELS REQUIRED ON SWITCHBOARDS, PANEL BOARDS, AND MOTOR CONTROL CENTERS PER ARTICLE 110.16 OF THE 2017 NEC.
- SPACES ABOUT ELECTRICAL EQUIPMENT MUST MEET 110.26 (A THROUGH F) ARTICLE 2017 NEC.
- SERVICE DISCONNECTING MEANS MUST BE LABELED AS SUITABLE FOR USE AS SERVICE EQUIPMENT 230.66 AND 230.70 OF THE 2017 NEC.
- RACEWAYS AND CABLES INSTALLED ABOVE SUSPENDED CEILING REQUIRED TO HAVE INDEPENDENT SUPPORT WIRES. CEILING GRID WIRES CANNOT BE USED TO SUPPORT RACEWAY AND CABLES UNLESS CEILING GRID IS RATED FOR SUPPORT PER ARTICLE 300.11 OF THE 2017 NEC.
- TYPE NM, NMC AND NMS CABLES CANNOT BE USED ABOVE SUSPENDED CEILING PER ARTICLE 334.12 OF THE 2017 NEC.
- FLEXIBLE CORDS CANNOT BE USED AS A SUBSTITUTE FOR FIXED WIRE OR CONCEALED ABOVE SUSPENDED CEILING PER ARTICLE 400.8 (1) AND (5) PER THE 2017 NEC.
- INDIVIDUAL UNIT EQUIPMENT USED FOR EXIT SIGNS AND EMERGENCY LIGHTS THAT USES A RECHARGEABLE BATTERY MUST BE SUPPLIED BY THE CIRCUIT THAT SUPPLIES THE NORMAL LIGHTING FOR THAT AREA PER ARTICLE 700.12 (F) AND 700.17 OF THE 2017 NEC.
- LAY IN FIXTURES INSTALLED IN SUSPENDED CEILING SHALL BE FASTENED TO GRID BY SCREWS OR LISTED CLIPS PER ARTICLE 410.36 OF THE 2017 NEC.

POWER LEGEND

- 20A, 125V, 2P, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN SINGLE GANG DEVICE BOX. MOUNT 20" AFF TO TOP OF DEVICE BOX UNLESS NOTED OTHERWISE.
- 20A, 125V, 2P, 3W, NEMA 5-20R DUPLEX RECEPTACLE MOUNTED IN SINGLE GANG DEVICE BOX. MOUNTED ABOVE TOP OF AND COORDINATED WITH COUNTERTOP.
- FED-SPEC GRADE USB CHARGER INTEGRAL TO TAMPER-RESISTANT DUPLEX RECEPTACLE MOUNTED IN SINGLE GANG DEVICE BOX. MOUNT 20" AFF UNLESS NOTED OTHERWISE. PROVIDE WIREMOLD #FR5262USB-FINISH OR APPROVED EQUAL.
- QUADRUPLEX OUTLET, 2 DUPLEX RECEPTACLES MOUNTED IN TWO GANG DEVICE BOX. MOUNT 20" AFF TO TOP OF DEVICE BOX UNLESS NOTED OTHERWISE.
- FED-SPEC GRADE USB CHARGER INTEGRAL TO TAMPER-RESISTANT QUADRUPLEX RECEPTACLE MOUNTED IN TWO GANG DEVICE BOX. MOUNT 20" AFF UNLESS NOTED OTHERWISE. PROVIDE WIREMOLD #FR5262USB-FINISH OR APPROVED EQUAL.
- POWER OUTLET, 250V, SIZED AS NOTED.
- DEAD FACE OF RESET BUTTON, PASS & SEWUR CATALOG #2087-FINISH OR APPROVED EQUAL.
- ADJACENT TO RECEPTACLE, DENOTES GROUND FAULT INTERRUPTER RECEPTACLE (FEED THRU TYPE).
- ADJACENT TO RECEPTACLE, INDICATES WEATHERPROOF IN-USE TYPE COVER TO BE INSTALLED.
- ADJACENT TO RECEPTACLE, INDICATES WEATHER RESISTANT TYPE RECEPTACLE.
- SEE TECHNICAL DRAWINGS FOR LOW VOLTAGE SYSTEM DEVICE BOX DESCRIPTIONS AND REQUIREMENTS.
- WATER HEATER.
- JUNCTION BOX.
- LIGHTING OR RECEPTACLE PANEL BOARD.
- NON-FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH, FUSED AS NOTED.
- ADJACENT TO SWITCH, DENOTES DISCONNECT SWITCH FURNISHED WITH EQUIPMENT BY MANUFACTURER.
- MOTOR RATED SWITCH, CONTINUOUS CURRENT RATED, QUANTITY OF POLES AS REQUIRED.
- MOTOR STARTER OR VFD.
- EXHAUST FAN, SEE MECHANICAL DRAWINGS FOR FAN SPECIFICATIONS.
- MOTOR, HORSE POWER AS SHOWN.
- "HOME-RUN" TO PANEL BOARD.

ELECTRICAL INFORMATION

SERVICE TRANSFORMER	<input checked="" type="checkbox"/> By Utility	KVA Primary
	<input type="checkbox"/> By District	
ELECTRICAL SERVICE INFORMATION		
Service Voltage/Phase	480/277/3	2000 Amperes
Service Entrance Conductors Size	600 kcmil	4 Qty. Per Phase
Total Connected Load	1120 KVA	
Estimated Maximum Demand	840 KVA	
Available Fault Current in Symmetrical Amperes	42 KA	
Interrupting Capacity of Service Overcurrent Device	65 KA	
GROUNDING ELECTRODE SYSTEM COMPONENTS (NEC 250)		
EXISTING		
EMERGENCY SERVICE INFORMATION		
Emergency Generator	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
Fuel		
Exit/Emergency Lights Backup Power	<input checked="" type="checkbox"/> Integral Battery <input type="checkbox"/> Generator	
Fire Alarm System	<input type="checkbox"/> Manual <input checked="" type="checkbox"/> Addressable	
	<input type="checkbox"/> Class A <input checked="" type="checkbox"/> Class B	
LIGHTNING PROTECTION PROVIDED	<input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	



TYPICAL DEVICE MOUNTING HEIGHT

SCALE: NONE

MOUNTING NOTES:

- MOUNT PULL STATION 4'-0" AFF TO THE TOP OF BOX.
- MOUNT STROBE OR SPEAKER/HORN COMBINATION AT LEAST 90" AFF AND NOT MORE THAN 96" AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.

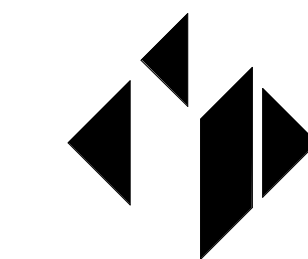
LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	LAMP	MANUFACTURER PART #	KELVIN	VOLTAGE	WATTAGE	MOUNTING	COMMENTS
A1	2' X 4' LED TROFFER - GRID (5200 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #LT-24-L52/835-AF-DIM-UNV	3500	277	37	RECESSED MOUNTED	
A1E	SAME AS TYPE 'A1' ABOVE EXCEPT WITH BATTERY BACKUP							
A2	2' X 4' LED TROFFER - GRID (8400 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #LT-24-L64/835-AF-DIM-UNV	3500	277	49	RECESSED MOUNTED	
A2E	SAME AS TYPE 'A2' ABOVE EXCEPT WITH BATTERY BACKUP							
A3	2' X 4' LED TROFFER - GRID (8200 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #LT-24-L82/835-AF-DIM-UNV	3500	277	65	RECESSED MOUNTED	
A3E	SAME AS TYPE 'A3' ABOVE EXCEPT WITH BATTERY BACKUP							
B1	2' X 2' LED TROFFER - GRID (4900 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #LT-22-L49/835-AF-DIM-UNV	3500	277	38	RECESSED MOUNTED	
C	4' LED INDUSTRIAL STRIP FIXTURE (5200 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #76R-4-L52/835-V6Y-2-DIM-UNV	3500	277	36	PENDANT MOUNTED	
CE	SAME AS TYPE 'C' ABOVE EXCEPT WITH BATTERY BACKUP							
C1	4' LED INDUSTRIAL STRIP FIXTURE (5200 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #76R-4-L52/835-SH5-76R-DIM-UNV	3500	277	36	SURFACE MOUNTED	
C1E	SAME AS TYPE 'C1' ABOVE EXCEPT WITH BATTERY BACKUP							
D1	4" LED RECESSED DOWNLIGHT (3000 LUMENS) WITH APERTURE ADAPTER KIT	LED	(LIGHT) H.E. WILLIAMS LIGHTING CATALOG #4DR-TR-L30/840-DIM-UNV-DM-OF-WH-WET/CC (ADAPTER KIT) H.E. WILLIAMS LIGHTING CATALOG #AA-4DR-0600-0750-WHT	4000	277	28	RECESSED MOUNTED	
D1E	SAME AS TYPE 'D1' ABOVE EXCEPT WITH BATTERY BACKUP							
D2	4" LED RECESSED DOWNLIGHT (3000 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #4DR-TR-L30/840-DIM-UNV-DM-OF-WH-WET/CC-N	4000	277	28	RECESSED MOUNTED	
D2E	SAME AS TYPE 'D2' ABOVE EXCEPT WITH BATTERY BACKUP							
D3	4" LED RECESSED DOWNLIGHT WET LOCATION LISTED (1500 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #4DR-TR-L15/835-DIM-UNV-S-W-OF-WH-WET/CC-N	3000	120	14	RECESSED MOUNTED	
D3E	SAME AS TYPE 'D3' ABOVE EXCEPT WITH BATTERY BACKUP							
D4	4" LED RECESSED DOWNLIGHT WET LOCATION LISTED (1500 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #4DR-TR-L15/835-DIM-UNV-S-W-OF-WH-WET/CC-N	3500	277	14	RECESSED MOUNTED	
D4E	SAME AS TYPE 'D4' ABOVE EXCEPT WITH BATTERY BACKUP							
D5	4" LED RECESSED DOWNLIGHT (1500 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #4DR-TR-L15/835-DIM-UNV-DM-OF-CS-N	3500	277	14	RECESSED MOUNTED	
D6	4" LED RECESSED DOWNLIGHT (3000 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #4DR-TR-L30/835-DIM-UNV-DM-OF-CS-N	3500	277	28	RECESSED MOUNTED	
D6E	SAME AS TYPE 'D6' ABOVE EXCEPT WITH BATTERY BACKUP							
EM1	EMERGENCY DUAL HEAD HIGH OUTPUT FIXTURE WITH BATTERY BACK-UP	LED	EMERGI-LITE LIGHTING CATALOG #EL-2RH-L-AD		277	10.8	WALL MOUNTED	
ER	2-LAMP WEATHERPROOF REMOTE HEAD POWER BY EXIT SIGN "EXA" BELOW	LED	DUAL-LITE LIGHTING CATALOG #OCR-D-FINISH-0603L		6	3	WALL MOUNTED	
ER2	WET LOCATION EXIT DISCHARGE LIGHT WITH BATTERY BACKUP	LED	EMERGI-LITE LIGHTING CATALOG #FINISH-LUX-SD-ET-H		277	3	WALL MOUNTED	
EX1	THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP	LED	EMERGI-LITE LIGHTING CATALOG #ELXN400-RN-AD		277	3	PER MANUFACTURER	
EX2	DUAL SIDED THERMOPLASTIC LED EXIT SIGN WITH BATTERY BACKUP	LED	EMERGI-LITE LIGHTING CATALOG #ELXN400-RN-AD		277	3	PER MANUFACTURER	
EX3	THERMOPLASTIC LED EXIT SIGN WITH DUAL LED HEADS AND BATTERY BACKUP	LED	EMERGI-LITE LIGHTING CATALOG #ELXN400-R-2LED-AD		277	3	PER MANUFACTURER	
EX4	THERMOPLASTIC LED EXIT SIGN WITH HIGH OUTPUT BATTERY TO FEED EXIT DISCHARGE LIGHT "EX"	LED	DUAL-LITE LIGHTING CATALOG #HCX-U-R-W-0-R-12		277	3	PER MANUFACTURER	
EX5	WET LOCATION SEALED AND GASKETED LED EXIT SIGN WITH DUAL LED HEADS AND BATTERY BACKUP	LED	EMERGI-LITE LIGHTING CATALOG #FINISH-SV12-1-R-D-4X-2-LB		277	3	PER MANUFACTURER	
F	DELETED							
FE	DELETED							
G	14" SQUARE SURFACE MOUNTED LED FIXTURE (2000 LUMENS)	LED	MODERN FORMS LIGHTING CATALOG #FM-3214-BN	3000	120	32	CEILING MOUNTED	
H	2' X 4' LED FLAT PANEL - GRID (5000 LUMENS)	LED	H.E. WILLIAMS LIGHTING CATALOG #LP-24-L50/835-DIM-UNV	3500	277	48	RECESSED MOUNTED	
K	DECORATIVE "SQUIGGLE" PENDANT MOUNTED INDIRECT/DIRECT FIXTURE	LED	BETA CALCO LIGHTING CATALOG #AX12-JS-K3-FINISH-CB1-CC1-LD-ED-CC-WO-U1	3500	277	125	PENDANT MOUNTED	
L	6" DIAMETER LED DIRECT/INDIRECT PENDANT MOUNTED FIXTURE	LED	BETA CALCO LIGHTING CATALOG #441201/35	3500	277	30	PENDANT MOUNTED	
WP1	LED WALLPACK	LED	H.E. WILLIAMS LIGHTING CATALOG #VWP-H-L30/740-13-FINISH-DIM-UNV	4000	277	36	WALL MOUNTED	
WP1E	SAME AS TYPE 'WP1' ABOVE EXCEPT WITH BATTERY BACKUP							
INV1	250W INVERTER #1		EMERGI-LITE CATALOG #EMU-250-NAD		277	332	WALL MOUNTED	
INV2	250W INVERTER #2		EMERGI-LITE CATALOG #EMU-250-NAD		120	330	WALL MOUNTED	

LIGHTING FIXTURE SCHEDULE NOTES:

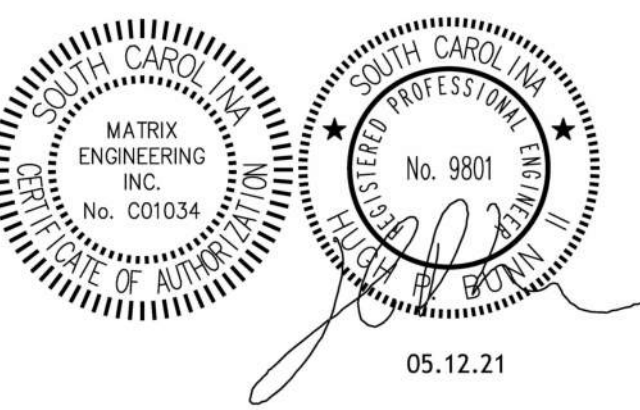
- LIGHTING FIXTURES MANUFACTURER SHALL BE PROVIDED AS SPECIFIED, UNLESS PRE-APPROVED DURING BIDDING BY THE ARCHITECT/ENGINEER.
 - VERIFY VOLTAGE REQUIREMENTS WITH RESPECT TO FLOOR PLAN CIRCUITING AND PANEL SCHEDULES.
 - VERIFY MOUNTING HEIGHTS ON ALL WALL AND SURFACE MOUNTED FIXTURES WITH ARCHITECT PRIOR TO ROUGH-IN.
- ELECTRICAL CONTRACTOR TO SUPPLY ALL PARTS AND ACCESSORIES FOR EACH FIXTURE TO MAKE A COMPLETE AND WORKING SYSTEM.

CONSULTANT LOGO



912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

SEALS



05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

156 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

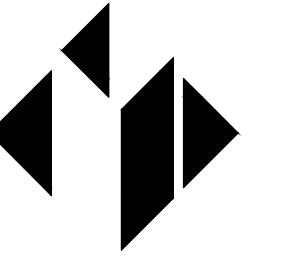
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
GENERAL NOTES,
LEGEND, FIXTURE
SCHEDULE

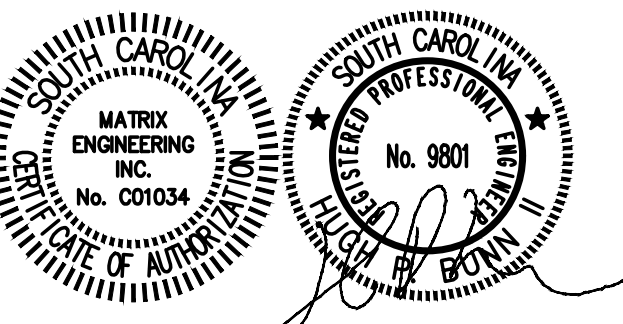
SHEET NO. PROJ. NO.
2020-124

E001



MATRIX
ENGINEERING INC.

912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.0274
Project Number: 2020-124



05.12.21

PANEL "DP-F"

480/277 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	225A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C	
792	LTC-MECH. PLATFORM	1		2	CONVERTOR TYPE DISHWASHER (45.1)	8868	9660			
665	BC-75 & BC-73	3		4		8868		9533		
1994	BC-72, BC-74 & BC-76	5		5		8868			10862	
1994	BC-71	7		6			13079			
1994	BC-70	9		7			13079			
1994	BC-69	11		8		BOOSTER HEATER (45.2)	11085			
2659	BC-68	13		9			11085			
1108	BC-67	15		10			11085			
2216	BC-65 & BC-66	17		11		PREPARED SPACE ONLY		2659		
2216	BC-83 & BC-84	19		12		PREPARED SPACE ONLY			1108	2216
2216	BC-81 & BC-82	21		13		PREPARED SPACE ONLY				2216
1994	BC-80	23		14		PREPARED SPACE ONLY				1994
2216	BC-78 & BC-79	25		15		PREPARED SPACE ONLY		2216		
2660	BC-77	27		16		PREPARED SPACE ONLY			2660	
	PREPARED SPACE ONLY	29		17		PREPARED SPACE ONLY				
	TVSS	31		18		PREPARED SPACE ONLY				
		33		19		PREPARED SPACE ONLY				
		35	20		PREPARED SPACE ONLY					
17927	75 KVA XMFR (RP-F1)	37	21		PANEL LP-F	4375	21802			
17207		39	22			2089		19296		
16637		41	23			1755			18212	

NOTES:

- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
- PROVIDE TYPED PANEL SCHEDULE
- PROVIDE SURGE SUPPRESSION BY SURGE SUPPRESSION INC. (CATALOG #MVL3Y2M) OR EQUAL. MOUNT WITHIN 10 LINEAR FEET OF PANEL.

PHASE A	51632		
PHASE B		48448	
PHASE C			46363
TOTAL VA	146443		
CONNECTED AMPERAGE	177 AMPERES		

PANEL "LP-F"

480/277 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	60A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C	
3237	LTC-CORRIDOR (819.8,310,311,312)	1		2	LIGHTING CONTROL PANEL (LCT)	500	3737			
1519	LTC-CORRIDOR (819.8,310,311,312)	3		4		PREPARED SPACE ONLY			1519	
1575	LTC-CORRIDOR (819.8,310,311,312)	5		5		PREPARED SPACE ONLY				1575
138	EXTERIOR LIGHTING (NEW COURTYARD)	7		6		PREPARED SPACE ONLY		138		
240	EXTERIOR LIGHTING (NEW COURTYARD)	9		7		PREPARED SPACE ONLY			240	
180	LTC-LOBBY B29 (PENDANTS)	11		8		PREPARED SPACE ONLY				180
330	LTC-LOBBY B29 (SQUIGGLE)	13		9		PREPARED SPACE ONLY		500		
	INVERTER #1	15		10		PREPARED SPACE ONLY			330	
	PREPARED SPACE ONLY	17		11		PREPARED SPACE ONLY				

NOTES:

- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
- PROVIDE TYPED PANEL SCHEDULE

PHASE A	4375		
PHASE B		2089	
PHASE C			1755
TOTAL VA	8219		
CONNECTED AMPERAGE	10 AMPERES		

PANEL "DP-G"

480/277 VOLT, 250 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	250A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C	
900	LTC-MECH. PLATFORM	1		2	ERV-1 (SUPPLY FAN)	2661	3561			
1994	BC-87	3		4		2661		4655		
1994	BC-88	5		5		2661			4655	
1994	BC-89	7		6		ERV-1 (UNIT EXHAUST)	1996	3990		
1994	BC-90	9		7			1996		3990	
1994	BC-91	11		8			1996			3990
1994	BC-92	13		9		ERV-1 (ENERGY WHEEL)	444	2438		
1994	BC-93	15		10			444		2438	
1994	BC-94	17		11			444			2438
3300	UNIT HEATER UH-1	19		12		HOOD EXHAUST FAN (EF-26)	2106	5406		
2216	BC-85 & BC-86	21		13			2106		4322	2106
	PREPARED SPACE ONLY	23		14		PREPARED SPACE ONLY				2106
	PREPARED SPACE ONLY	25		15		MAKE UP AIR UNIT (MUA-1)	1774	1774		
	PREPARED SPACE ONLY	27		16			1774		1774	
	PREPARED SPACE ONLY	29		17			1774			1774
	TVSS	31		18		75 KVA XMFR (RP)	16393	16393		
		33		19			16393		16393	
		35	20			16393			16393	
27048	75 KVA XMFR (RP-G1)	37	21		PANEL LP-G	4450	31498			
25314		39	22			4699		30013		
26798		41	23			2227			29025	

NOTES:

- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
- PROVIDE TYPED PANEL SCHEDULE
- PROVIDE SURGE SUPPRESSION BY SURGE SUPPRESSION INC. (CATALOG #MVL3Y2M) OR EQUAL. MOUNT WITHIN 10 LINEAR FEET OF PANEL.

PHASE A	65032		
PHASE B		63580	
PHASE C			60361
TOTAL VA	189998		
CONNECTED AMPERAGE	228 AMPERES		

PANEL "LP-G"

480/277 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE
FULLY RATED, COPPER PLATED BUS, 22 KAIC

CONN LOAD	CIRCUIT USE	S N	60A M. L. O.	S N	CIRCUIT USE	CONN LOAD	PHASE A	PHASE B	PHASE C	
3776	LTC-CORRIDOR (819.8,310,311,312)	1		2	LIGHTING CONTROL PANEL (LCT)	500	4276			
1330	LTC-CORRIDOR (819.8,310,311,312)	3		4		813, 815, 817, 810, 812, 811	3115		4447	
2047	LTC-CORRIDOR (819.8,310,311,312)	5		5		SPARE 20A BREAKER				2047
174	EXTERIOR LIGHTING (PLAN NORTH)	7		6		PREPARED SPACE ONLY		174		
252	EXTERIOR LIGHTING (PLAN WEST)	9		7		PREPARED SPACE ONLY			252	
180	EXTERIOR LIGHTING (NEW COURTYARD)	11		8		PREPARED SPACE ONLY				180
	PREPARED SPACE ONLY	13		9		PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	15		10		PREPARED SPACE ONLY				
	PREPARED SPACE ONLY	17		11		PREPARED SPACE ONLY				

NOTES:

- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
- PROVIDE TYPED PANEL SCHEDULE

PHASE A	4450		
PHASE B		4699	
PHASE C			2227
TOTAL VA	11376		
CONNECTED AMPERAGE	14 AMPERES		

SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
17E BURGETTE STREET
SPARTANBURG, SOUTH CAROLINA, 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021

PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: CH.RB,RP,RM

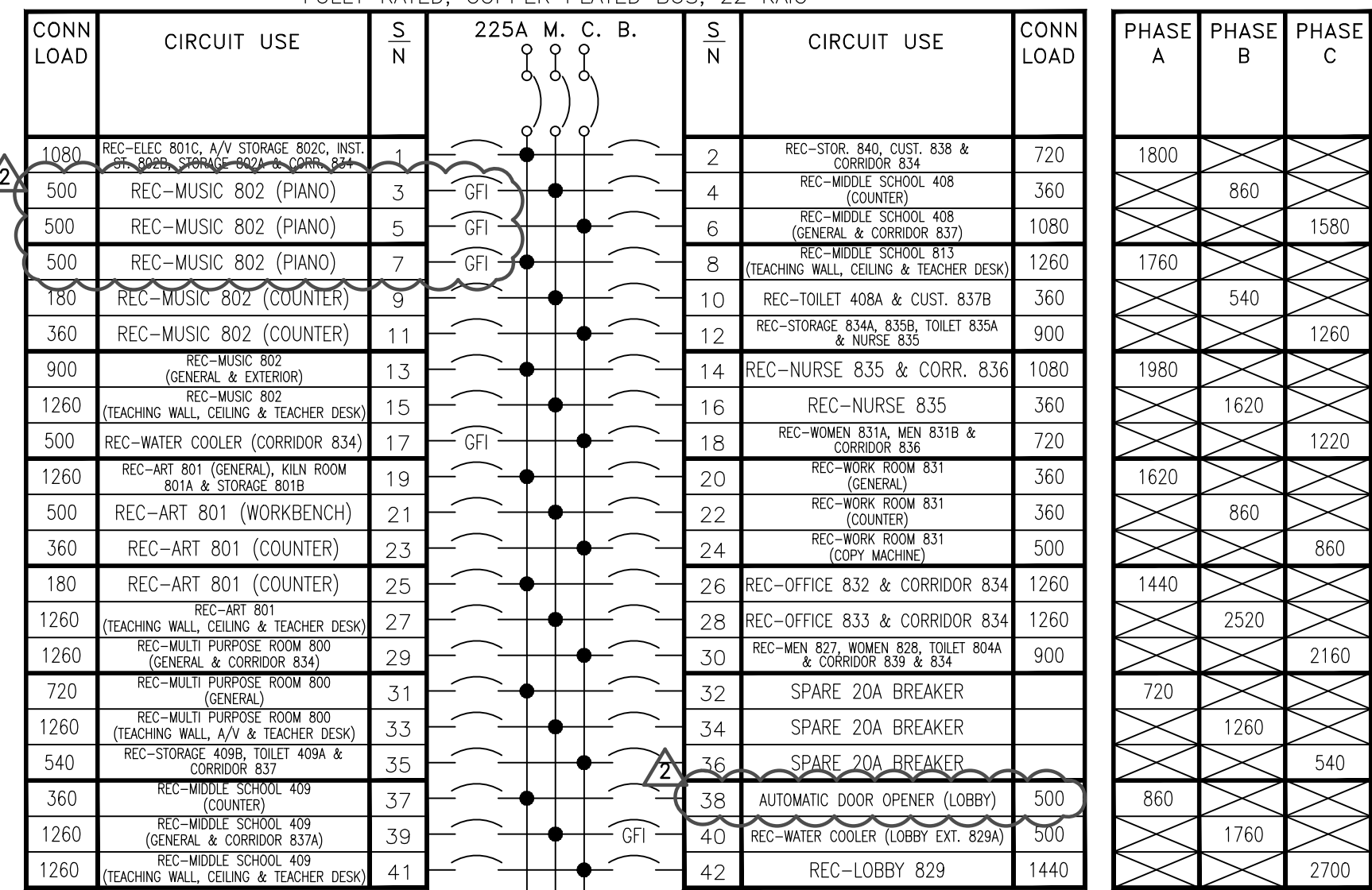
SHEET TITLE:
PANEL SCHEDULES (480V)

SHEET NO. PROJ. NO.
2020-124

E003

PANEL "RP-F1 SECTION 1"

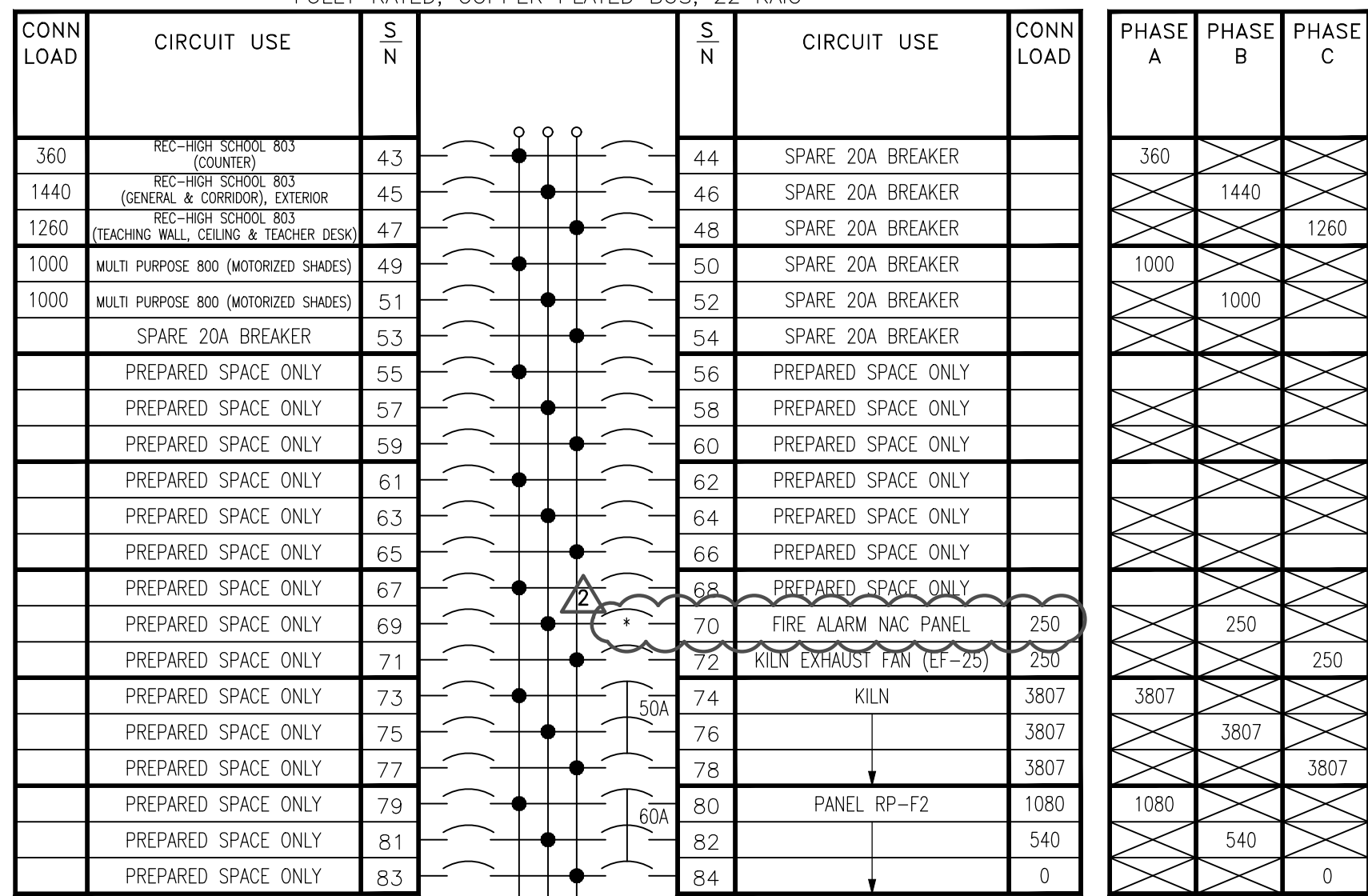
208/120 VOLT, 225 AMP MAIN CIRCUIT BREAKER, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC



- NOTES:
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED PANEL SCHEDULE
 - LEAVE ALL BREAKERS NOTED AS SPARES IN THE OFF POSITION.
- GFI-DENOTES GFI TYPE CIRCUIT BREAKER.
- PROVIDE RED LOCKING DEVICE FOR FIRE ALARM CIRCUIT

PANEL "RP-F1 SECTION 2"

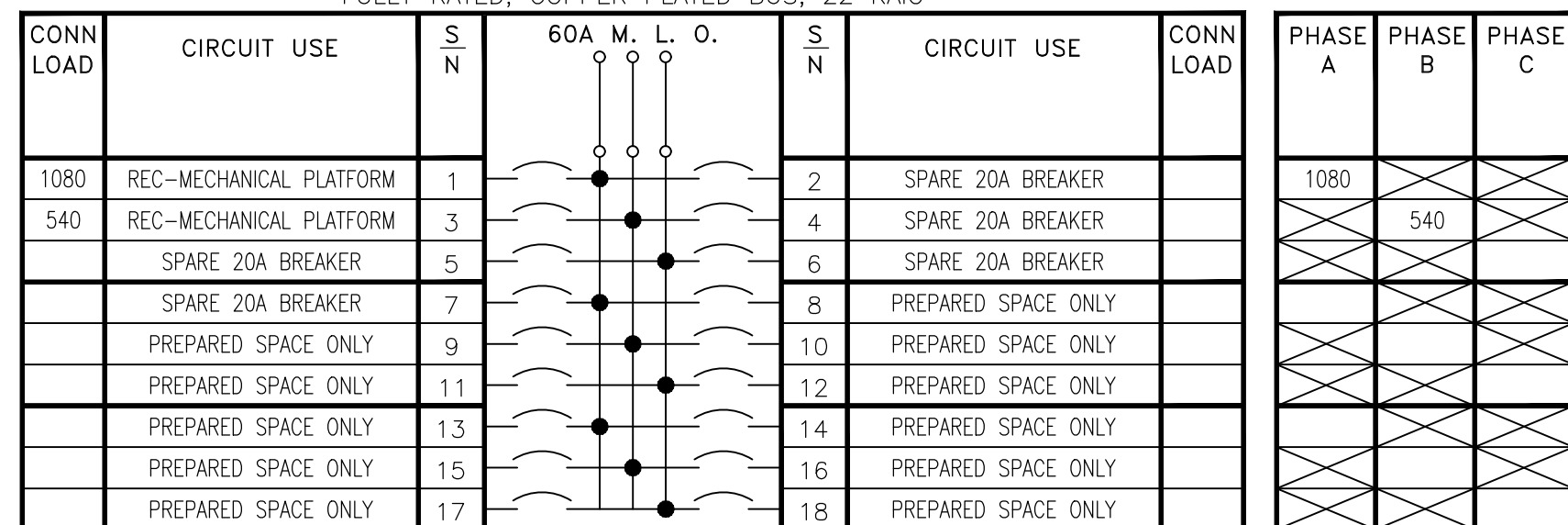
208/120 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC



- NOTES:
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED PANEL SCHEDULE.
- GFI-DENOTES GFI TYPE CIRCUIT BREAKER.
- PROVIDE RED LOCKING DEVICE FOR FIRE ALARM CIRCUIT

PANEL "RP-F2"

208/120 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC

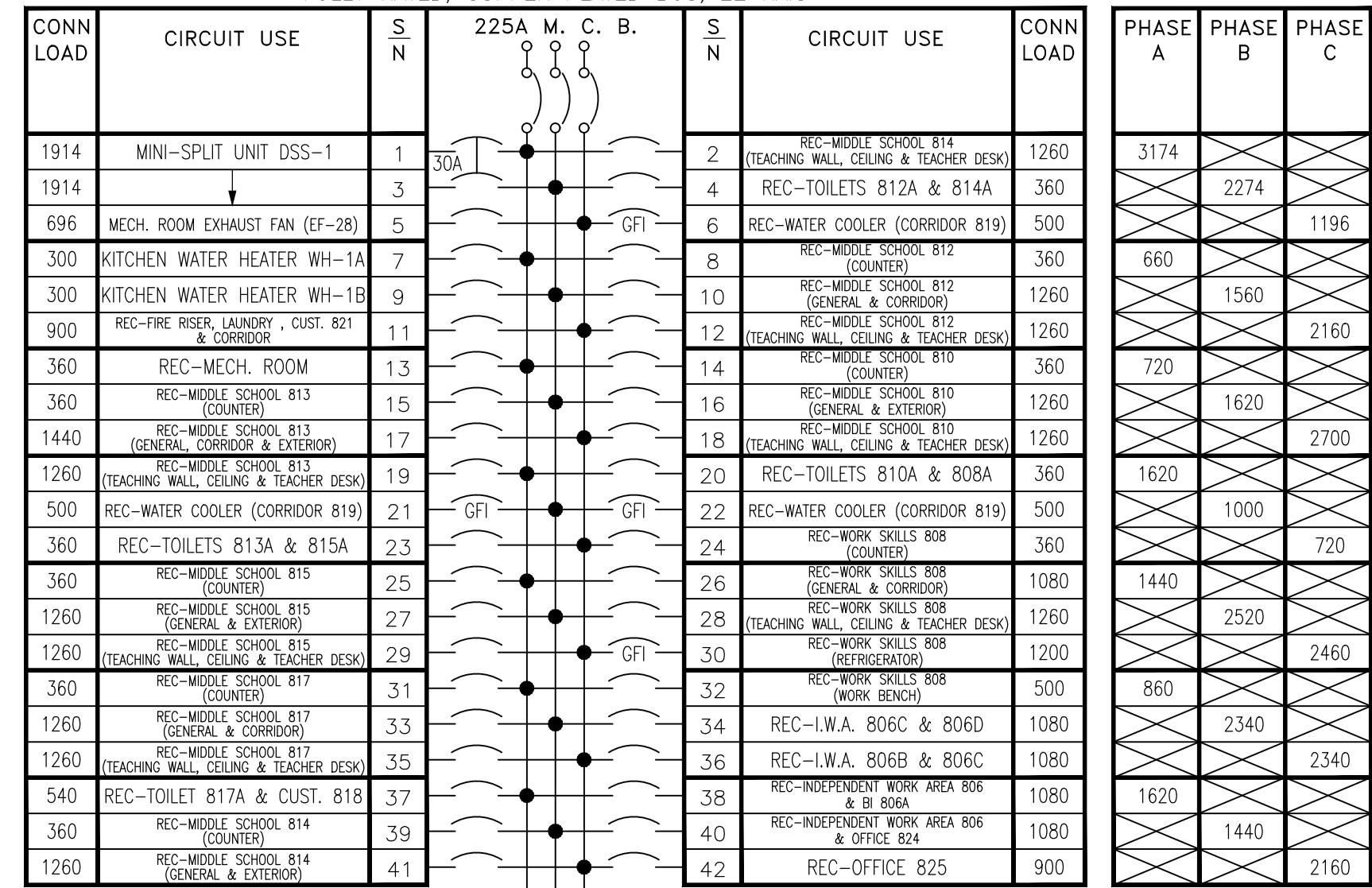


- NOTES:
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED PANEL SCHEDULE.

PHASE A	1080		
PHASE B		540	
PHASE C			0
TOTAL VA	1860		
CONNECTED AMPERAGE	6 AMPERS		

PANEL "RP-G1 SECTION 1"

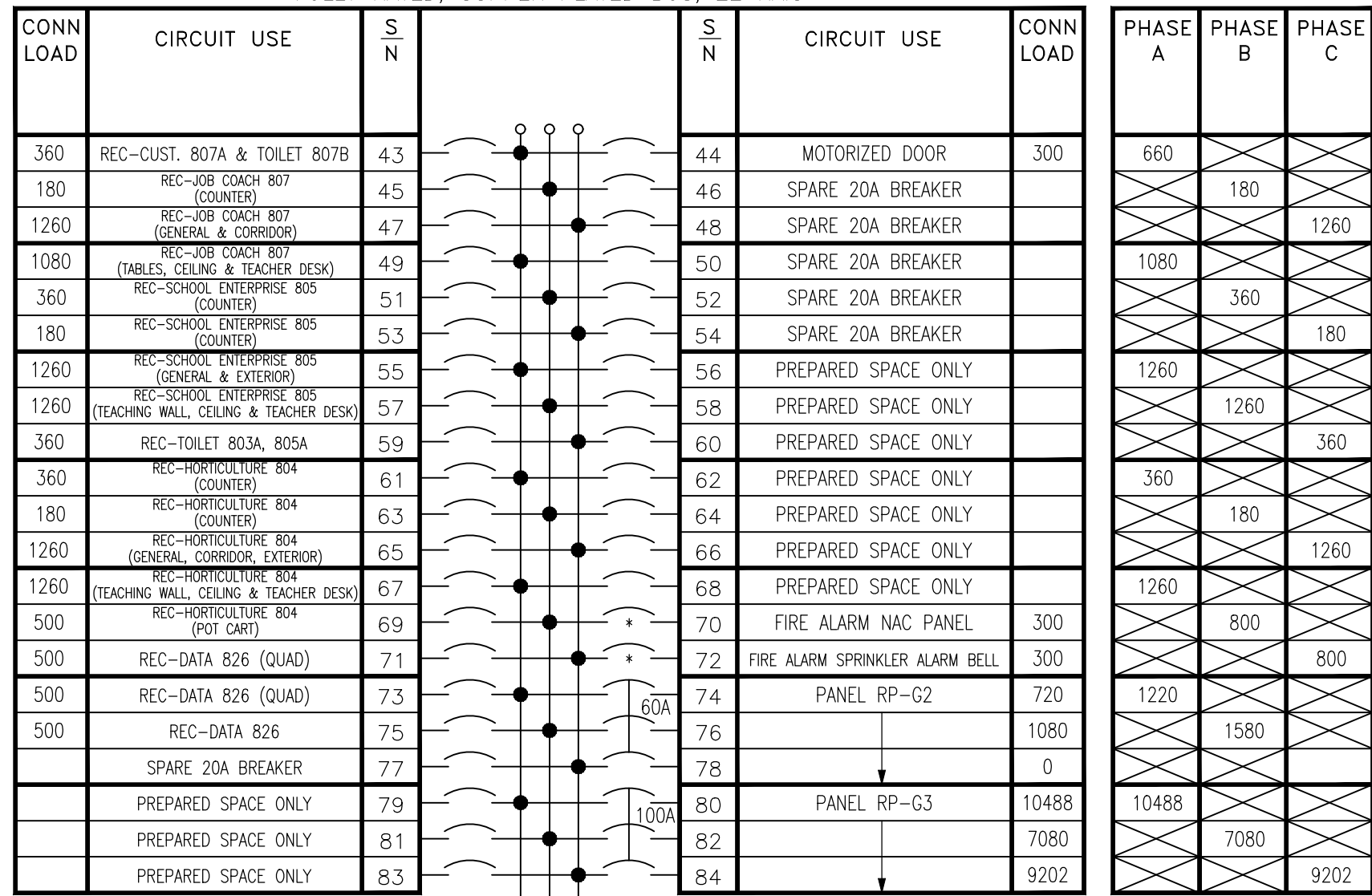
208/120 VOLT, 225 AMP MAIN CIRCUIT BREAKER, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC



- NOTES:
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED PANEL SCHEDULE
 - LEAVE ALL BREAKERS NOTED AS SPARES IN THE OFF POSITION.
- GFI-DENOTES GFI TYPE CIRCUIT BREAKER.
- PROVIDE RED LOCKING DEVICE FOR FIRE ALARM CIRCUIT

PANEL "RP-G1 SECTION 2"

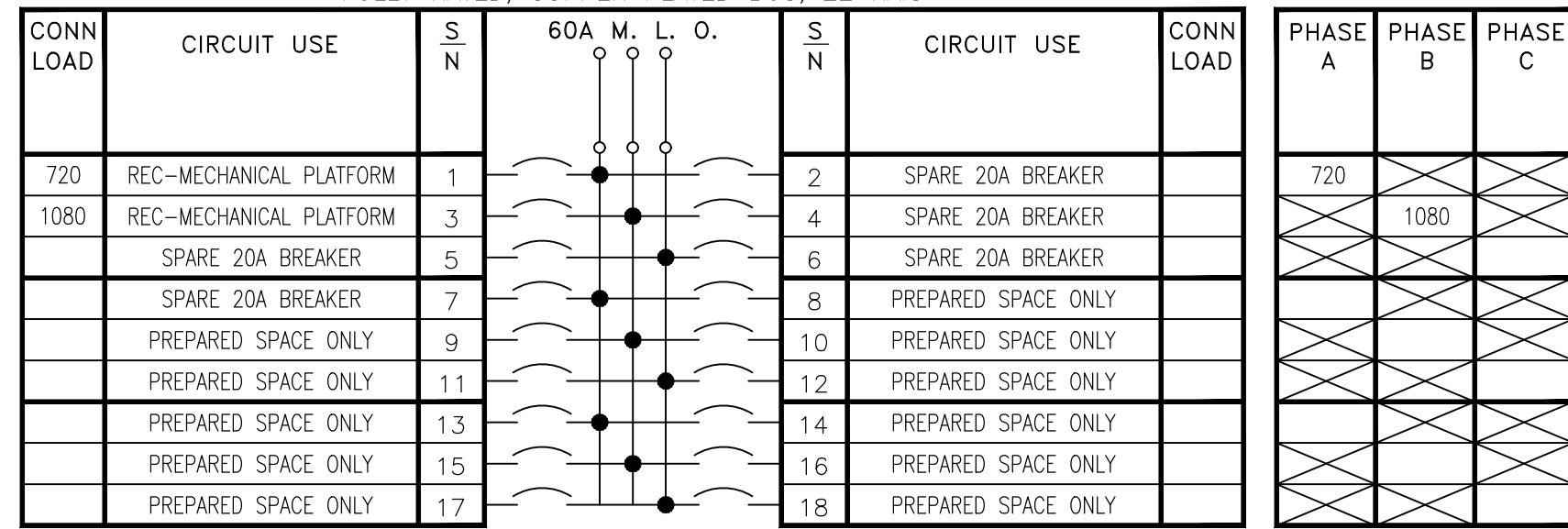
208/120 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC



- NOTES:
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED PANEL SCHEDULE
 - LEAVE ALL BREAKERS NOTED AS SPARES IN THE OFF POSITION.
- GFI-DENOTES GFI TYPE CIRCUIT BREAKER.
- PROVIDE RED LOCKING DEVICE FOR FIRE ALARM CIRCUIT

PANEL "RP-G2"

208/120 VOLT, 60 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC

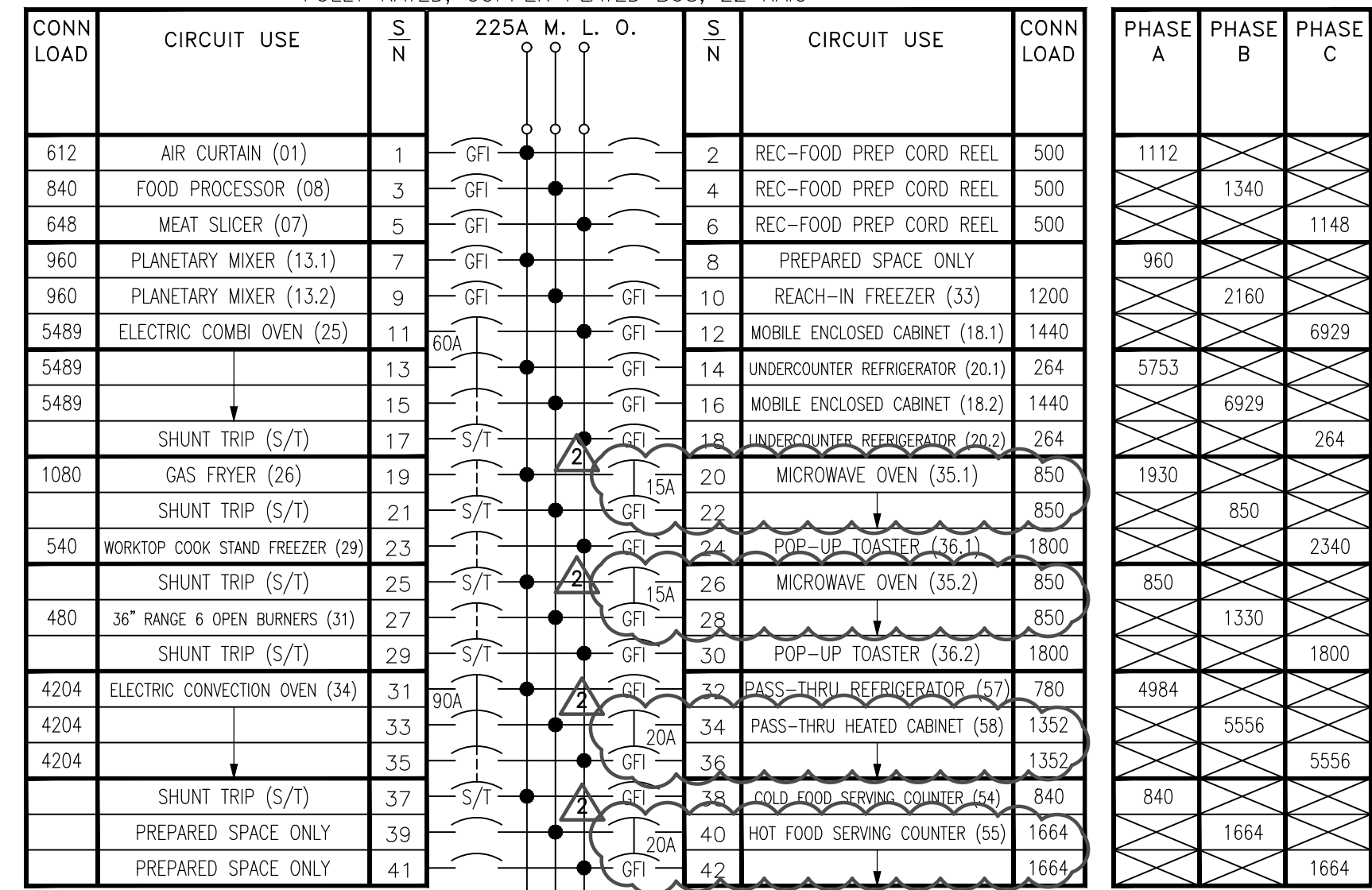


- NOTES:
- ALL CIRCUIT BREAKERS 20 AMPERE, SINGLE POLE, UNLESS NOTED OTHERWISE.
 - PROVIDE TYPED PANEL SCHEDULE.

PHASE A	720		
PHASE B		1080	
PHASE C			0
TOTAL VA	1800		
CONNECTED AMPERAGE	5 AMPERS		

PANEL "KP SECTION 1"

208/120 VOLT, 225 AMP MAIN LUGS ONLY, 3 PHASE, 4 WIRE FULLY RATED, COPPER PLATED BUS, 22 KAIC



1

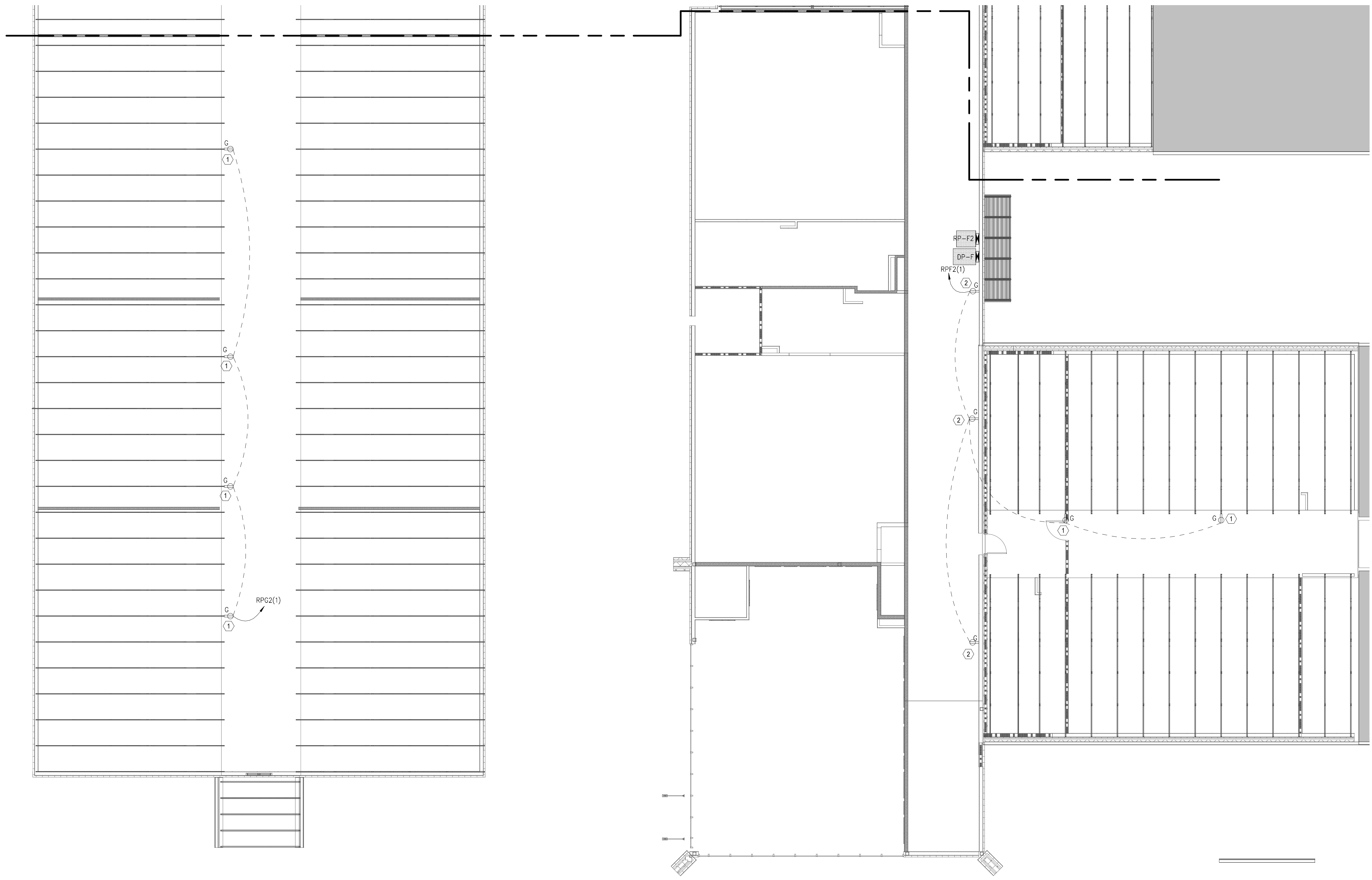
2

3

4

5

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1 MECHANICAL PLATFORM POWER PLAN (AREA A CONTINUED)
 1E201 1/8" = 1'-0"

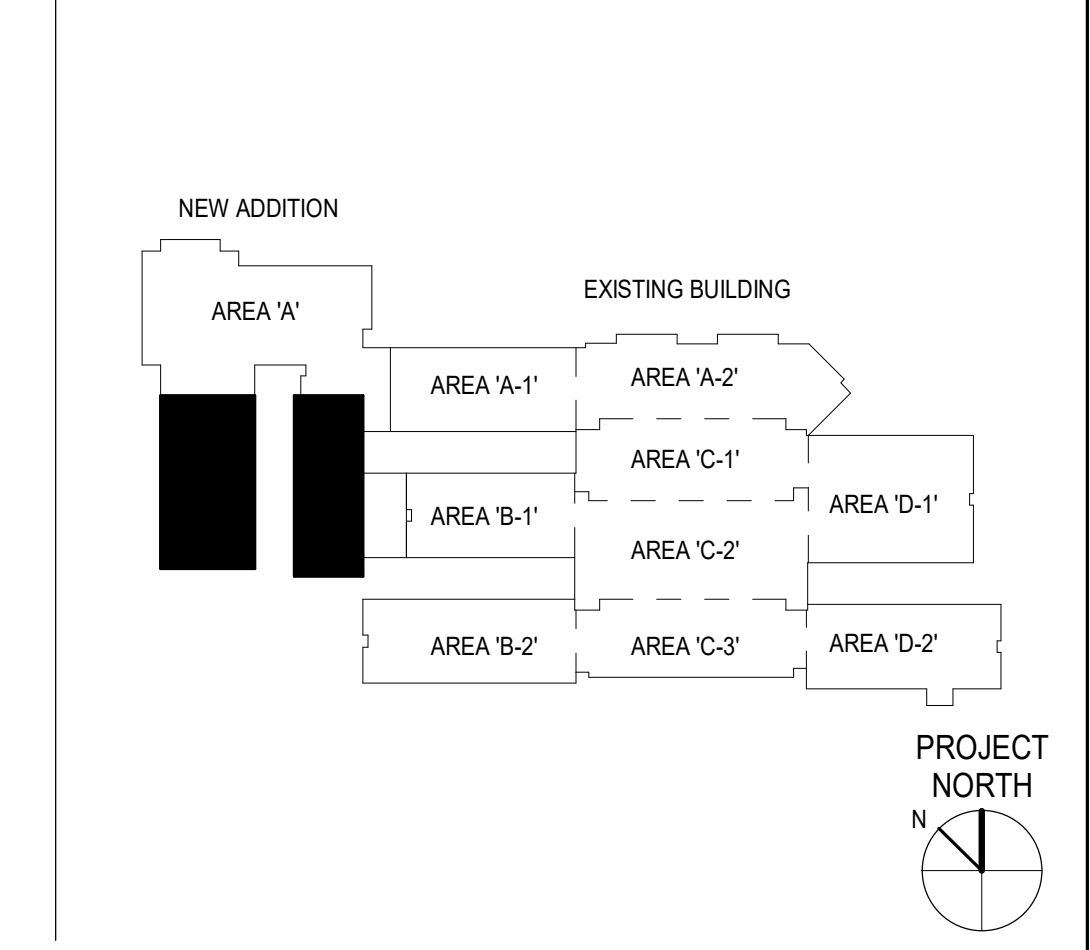
GENERAL NOTES:

1. PROVIDE U.L. LISTED FIRE STOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIRE WALLS.
2. ALL ELECTRICAL WIRING AND INSTALLATION SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL SOUTH CAROLINA OFFICE OF SCHOOL FACILITIES GUIDELINES.
3. ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
4. RECEPTACLES WHICH ARE BACK TO BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
5. COORDINATE LOCATION OF RECEPTACLES ON MECHANICAL PLATFORM WITH HVAC UNITS WHERE APPLICABLE (WITHIN 25 FEET OF UNITS).
6. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

KEYED NOTES:

- 1 DENOTES GFCI TYPE MAINTENANCE RECEPTACLES ON MECHANICAL PLATFORM. MOUNT TO VERTICAL SUPPORT BEAM WITH KINORF OR EQUAL AT 24" AFF TO TOP OF DEVICE BOX. RUN CONDUIT BETWEEN RECEPTACLES SO THAT NO TRIP HAZARD EXISTS AFTER INSTALLATION.
- 2 MOUNT RECEPTACLE TO AVAILABLE WALL SPACE AT 24" AFF TO TOP OF BOX.

KEY PLAN



mcmillan pazdan smith
 ARCHITECTURE

CONSULTANT LOGO

MATRIX ENGINEERING, INC.
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.6274
 Project Number: 2020-124

SEALS

MATRIX ENGINEERING, INC. No. 9801
 SOUTH CAROLINA PROFESSIONAL ENGINEER
 No. 001034
 05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 175 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

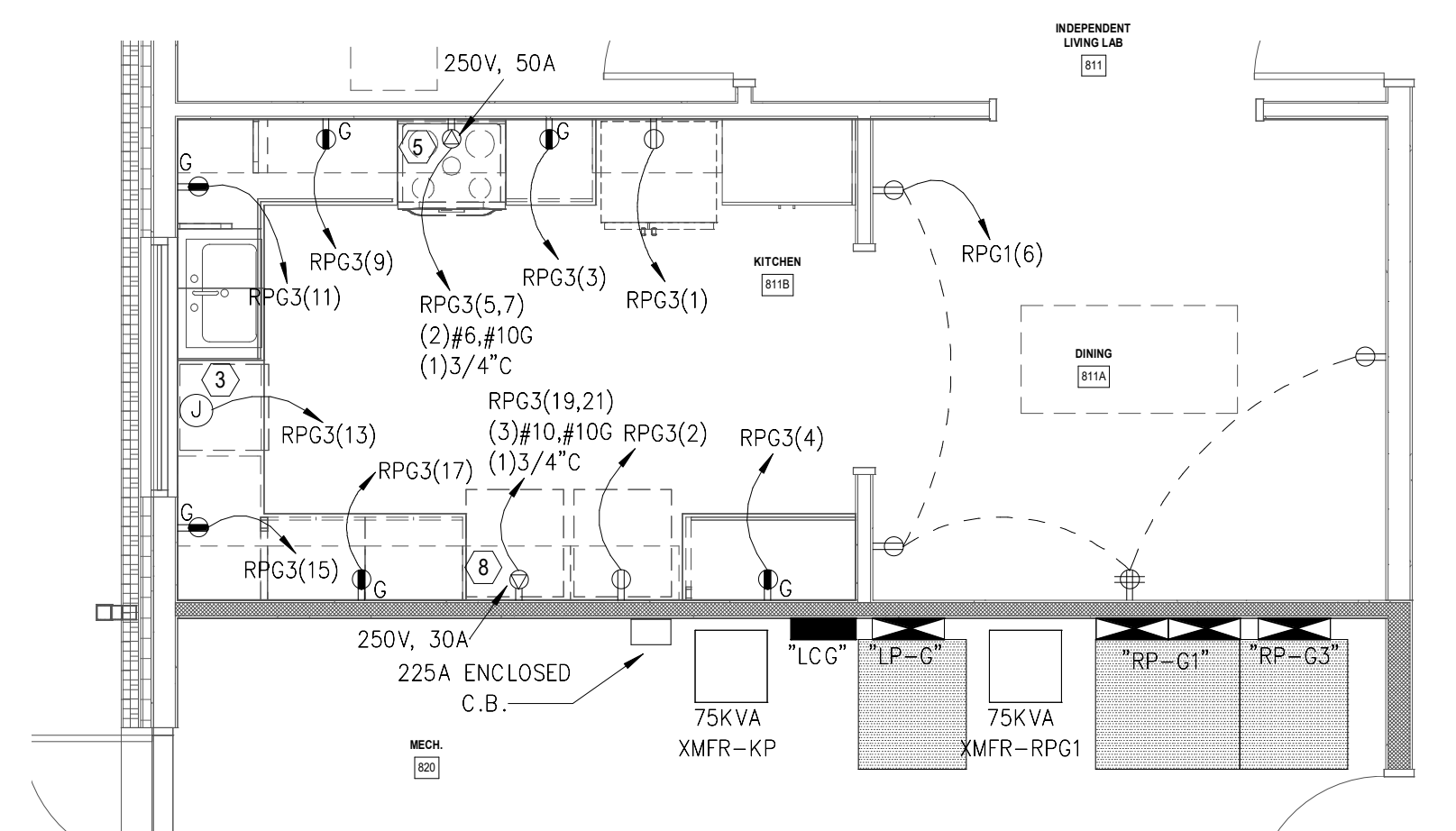
CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH,RP, RB, RM

SHEET TITLE:
MECHANICAL PLATFORM POWER PLAN (AREA A CONTINUED)

SHEET NO. PROJ. NO.
 1E201 2020-124



1 POWER PLAN (AREA A)
1E202 1/8" = 1'-0"



2 ENLARGED INDEPENDENT LIVING KITCHEN PLAN
1E202 1/4" = 1'-0"

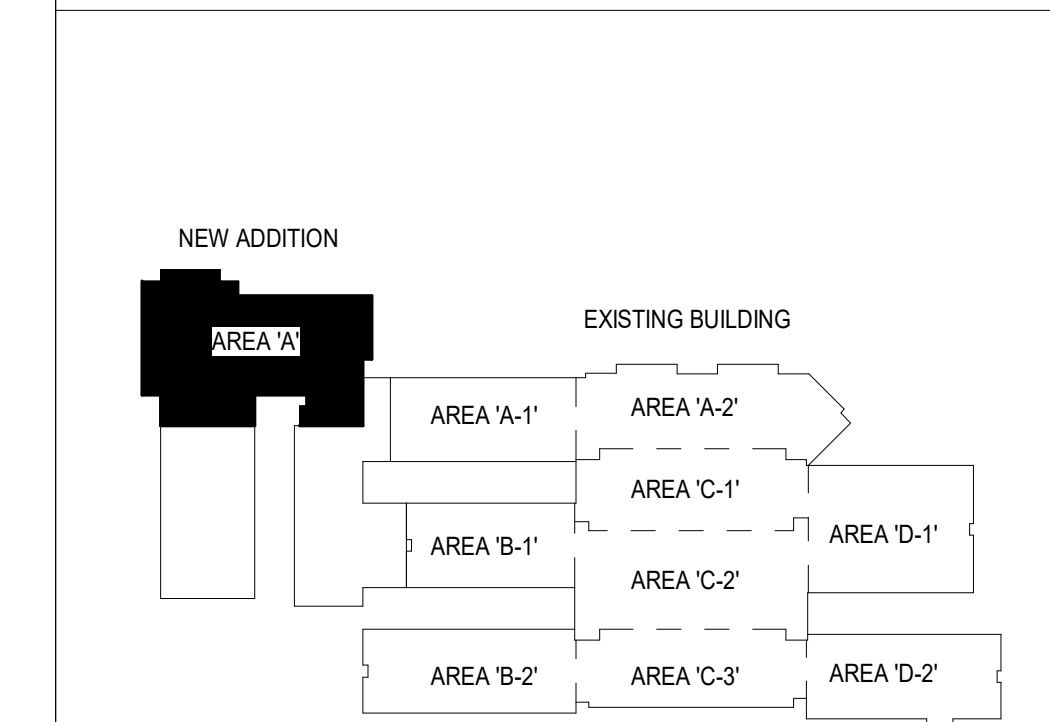
GENERAL NOTES:

1. PROVIDE U.L. LISTED FIRE STOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIRE WALLS.
2. ALL ELECTRICAL WIRING AND INSTALLATION SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL SOUTH CAROLINA OFFICE OF SCHOOL FACILITIES GUIDELINES.
3. ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
4. RECEPTACLES WHICH ARE BACK TO BACK ON A COMMON WALL SHALL BE OFFSET 6" MINIMUM TO AVOID SOUND TRANSMISSION.
5. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL TAMPER PROOF RECEPTACLE TO COMPLY ARTICLE 406.12 OF THE NEC.
6. REFER TO TELECOMMUNICATION DRAWINGS FOR LOCATION OF DATA DEVICES.
7. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

KEYED NOTES:

- 1 DENOTES QUAD RECEPTACLE MOUNTED AT 20" ABOVE FINISHED FLOOR TO TOP OF DEVICE BOX WITH QUAD RECEPTACLE MOUNTED 60" AFF FOR AV EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHT WITH TELECOMMUNICATION DRAWINGS.
- 2 DENOTES CEILING MOUNTED RECEPTACLE FOR AV COMPONENT. COORDINATE WITH TELECOMMUNICATION DRAWINGS FOR EXACT LOCATION PRIOR TO INSTALLING.
- 3 PROVIDE CODE COMPLIANT DISCONNECTING MEANS FOR DISHWASHER.
- 4 DELETED.
- 5 DENOTES QUANTITY (1) 250V, 50A RECEPTACLE FOR RANGE. WIRE WITH (2)#6, #10G IN 3/4" CONDUIT. WIRE THRU CONTACTOR SUPPLIED WITH UNIT. RANGE SHALL DE-ENERGIZE IN THE EVENT THE FIRE SUPPRESSION SYSTEM IS ACTIVATED. COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO INSTALLING.
- 6 DATA QUAD WITH 2 CIRCUITS.
- 7 DENOTES RECEPTACLE FOR POT CART. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO INSTALLING.
- 8 COORDINATE EXACT ELECTRICAL REQUIREMENTS OF DRYER WITH NAMEPLATE DATA PRIOR TO INSTALLING.
- 9 DENOTES JUNCTION BOX FOR CONNECTION TO AUTOMATIC DOOR. COORDINATE EXACT LOCATION AND ELECTRICAL REQUIREMENTS WITH DOOR INSTALLER AND SHOP DRAWINGS.
- 10 DENOTES INVERTER #2 FOR EMERGENCY POWER TO INDEPENDENT LIVING AREA EMERGENCY FIXTURES. ELECTRICAL CONTRACTOR TO WIRE INVERTER #2 TO RFG3(22) WITH (2)#12, #12-3/4" CONDUIT. SEE SHEET 1E402 LIGHTING PLAN (AREA A).

KEY PLAN



CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH,RP,RB,RM
 SHEET TITLE: POWER PLAN (AREA A)
 SHEET NO. PROJ. NO. 2020-124

mcmillan pazdan smith
ARCHITECTURE

MATRIX ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

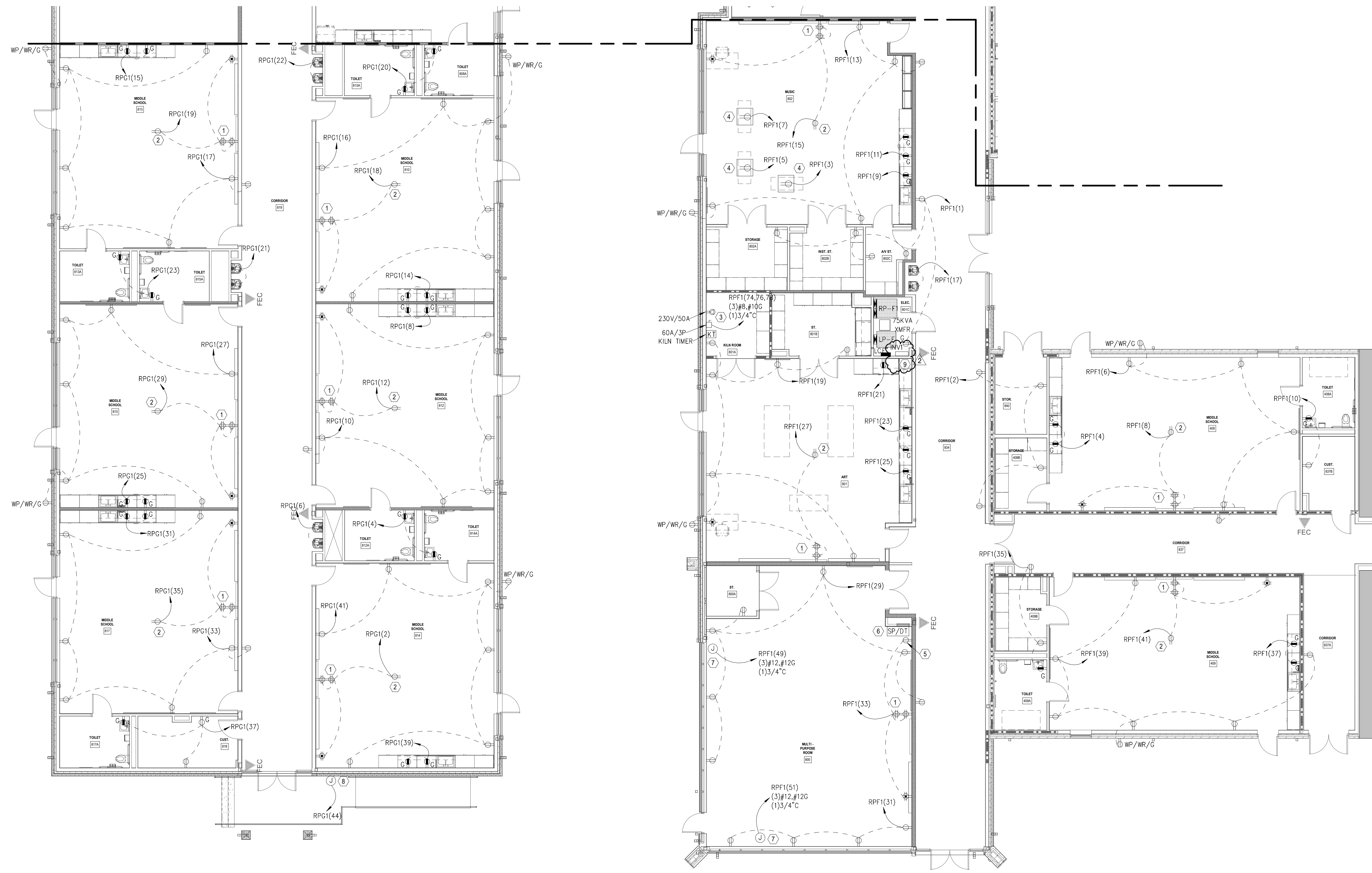
SEALS
 SOUTH CAROLINA PROFESSIONAL ENGINEER
 No. 9801
 05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 425 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

PROJECT NORTH
1E202

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1 POWER PLAN (AREA A CONTINUED)
 1E203 1/8" = 1'-0"

GENERAL NOTES:

1. PROVIDE U.L. LISTED FIRE STOP ASSEMBLY FOR ALL DEVICES INSTALLED IN FIRE WALLS.
2. ALL ELECTRICAL WIRING AND INSTALLATION SHALL COMPLY WITH THE 2017 NATIONAL ELECTRICAL CODE AND ALL SOUTH CAROLINA OFFICE OF SCHOOL FACILITIES GUIDELINES.
3. ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT/OWNER PRIOR TO PURCHASING AND INSTALLING.
4. RECEPTACLES WHICH ARE BACK TO BACK TO BACK ON A COMMON WALL SHALL BE OFFSET BY MINIMUM TO AVOID SOUND TRANSMISSION.
5. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL TAMPER PROOF RECEPTACLE TO COMPLY ARTICLE 408-12 OF THE NEC.
6. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

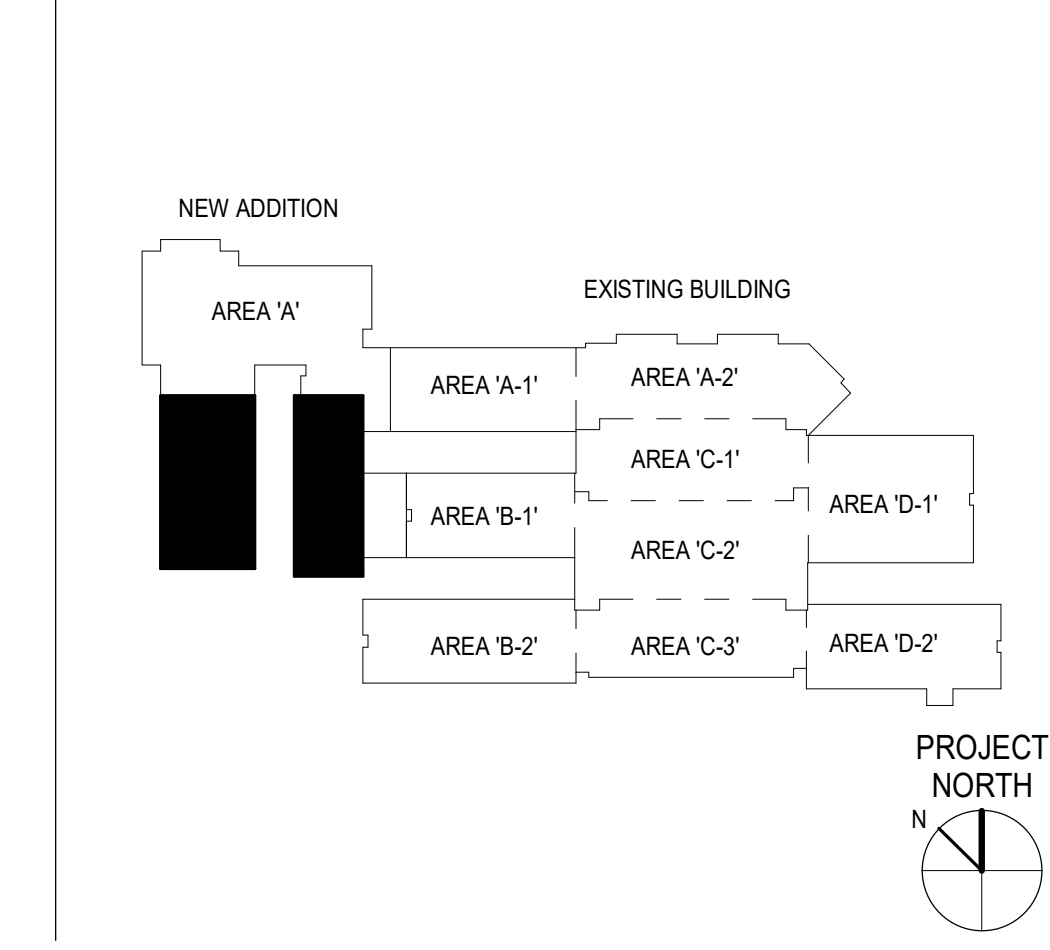
KEYED NOTES:

1. DENOTES QUAD RECEPTACLE MOUNTED AT 20" ABOVE FINISHED FLOOR TO TOP OF DEVICE BOX WITH DUPLEX RECEPTACLE MOUNTED 80" AFF FOR A/V EQUIPMENT. COORDINATE EXACT MOUNTING HEIGHT WITH TELECOMMUNICATION DRAWINGS.
2. DENOTES CEILING MOUNTED RECEPTACLE FOR A/V COMPONENT. COORDINATE EXACT MOUNTING HEIGHT WITH TELECOMMUNICATION DRAWINGS FOR EXACT LOCATION PRIOR TO INSTALLING.
3. EXISTING KILN LOCATED IN STORAGE E202 (EXISTING BUILDING) TO BE RELOCATED TO NEW KILN ROOM. ELECTRICAL CONTRACTOR TO RELOCATE ALL ELECTRICAL EQUIPMENT (DISCONNECT SWITCH, 50A PLUG & KILN TIMER) FOR THE KILN. WIRE TO NEW CIRCUIT AS INDICATED. COORDINATE EXACT MOUNTING LOCATION WITH FINAL KILN LOCATION & OWNER PRIOR TO INSTALLING.
4. DENOTES FLOOR BOX WITH DUPLEX RECEPTACLE. ELECTRICAL CONTRACTOR TO PURCHASE AND INSTALL LEGRAND SERIES EFB45S-FINISH (OR APPROVED EQUAL). ARCHITECT TO SELECT FINISH OF FLOOR BOX COVER.
5. DENOTES WALL MOUNTED RECEPTACLE FOR A/V COMPONENT. COORDINATE WITH TELECOMMUNICATION DRAWINGS FOR EXACT LOCATION PRIOR TO INSTALLING.
6. DENOTES ELECTRIC WINDOW SHADE UP/DOWN SP/DOT CONTROL SWITCH. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. ELECTRICAL CONTRACTOR TO PROVIDE 1 GANG DEVICE BOX FOR SHADE UP/DOWN SWITCH.
7. DENOTES JUNCTION BOX FOR POWERED SHADE. COORDINATE EXACT LOCATION WITH OWNER/ARCHITECT PRIOR TO ROUGH-IN. SHADES INSTALLED BY GENERAL CONTRACTOR OR WIRE BY ELECTRICAL CONTRACTOR. PROVIDE JUNCTION BOX IN ACCESSIBLE AREA WITH-IN 5 FEET OF SHADE FOR MOTOR LEAD CONNECTION. COORDINATE WITH SHADE SHOP INSTALLATION DRAWINGS.
8. DENOTES JUNCTION BOX FOR AUTOMATIC DOOR OPENER MOTOR & WALL SWITCH. MOUNT JUNCTION BOX 48" AFF TO TOP OF BOX. COORDINATE EXACT ELECTRICAL REQUIREMENTS WITH INSTALLATION DRAWINGS PRIOR TO INSTALLING.
9. DENOTES INVERTER #1 FOR EMERGENCY POWER TO LOBBY FIXTURE. ELECTRICAL CONTRACTOR TO WIRE INVERTER #1 TO LPF(15) WITH (2) 12-#12-3WFT CONDUIT. SEE SHEET 1E40 LIGHTING PLAN (AREA A).

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

KEY PLAN



mcmillan pazdan smith
 ARCHITECTURE
 CONSULTANT LOGO
MATRIX ENGINEERING, INC.
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.6274
 Project Number: 2020-124
 No. 9801
 05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 475 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH,RP,RB,RM
SHEET TITLE: POWER PLAN (AREA A CONTINUED)
 SHEET NO. PROJ. NO. 2020-124
1E203

GENERAL NOTES:

1. THIS PLAN IS INTENDED TO SHOW UTILITY REQUIREMENTS AND APPROXIMATE ROUGH-IN LOCATIONS ONLY. DO NOT USE FOR ACTUAL ROUGHING IN. FOR FINAL ROUGH-IN LOCATIONS SEE DIMENSIONED PLANS PROVIDED BY THE FOOD SERVICE EQUIPMENT CONTRACTOR.
2. ALL 120V, 15, 20 AMP RECEPTACLES LOCATED IN THE KITCHEN & FOOD PREP AREA ARE TO BE GFCI TYPE RECEPTACLES.
3. VERIFY ALL PLUG CONFIGURATIONS AND MOUNTING HEIGHTS OF ALL KITCHEN EQUIPMENT OUTLET BOXES WITH FOOD SERVICE EQUIPMENT CONTRACTOR BEFORE INSTALLATION OF CONDUIT AND WIRING. REFERENCE FOOD SERVICE EQUIPMENT CONTRACTOR'S DIMENSIONED PROVIDED DRAWINGS.
4. ALL KITCHEN RECEPTACLES SHALL BE READILY ACCESSIBLE. DEFINED AS NOT HAVING TO MOVE EQUIPMENT TO ACCESS THE RECEPTACLE.
5. WHERE EXPOSED PIPES AND CONDUITS ARE NECESSARY, THEY SHOULD BE MOUNTED 1 TO 2 INCHES OFF THE WALL AND 6 INCHES ABOVE THE FLOOR TO ALLOW FOR CLEANING.
6. AIR CURTAIN FAN WITH DOOR SWITCH TO BE FURNISHED BY FOOD SERVICE EQUIPMENT CONTRACTOR. ELECTRICAL CONTRACTOR TO PROVIDE MASTER SWITCH AND MAKE FINAL CONNECTIONS.
7. ELECTRICAL CONTRACTOR TO WIRE ALL COMPONENTS FOR A COMPLETE WORKING EXHAUST HOOD SYSTEM INCLUDING BUT NOT LIMITED TO ROOF MOUNTED MOTORS, INTERLOCKING DEVICES TO THE FIRE SUPPRESSION SYSTEM, SHUNT TRIP AND FIRE ALARM SYSTEM. SEE PROVIDED CAPTIVE AIRE HOOD DRAWINGS.
8. INITIATION OF FIRE SUPPRESSION SYSTEM SHALL DE-ENERGIZE HOOD SUPPLY FAN, LIGHTS, ALL EQUIPMENT LOCATED UNDER THE HOOD AND SEND SIGNAL TO ACTIVATE THE FIRE ALARM SYSTEM. COORDINATE WITH OWNER AND AUTHORITY HAVING JURISDICTION REGARDING ALARM TYPE (LOCAL OR GENERAL).
9. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

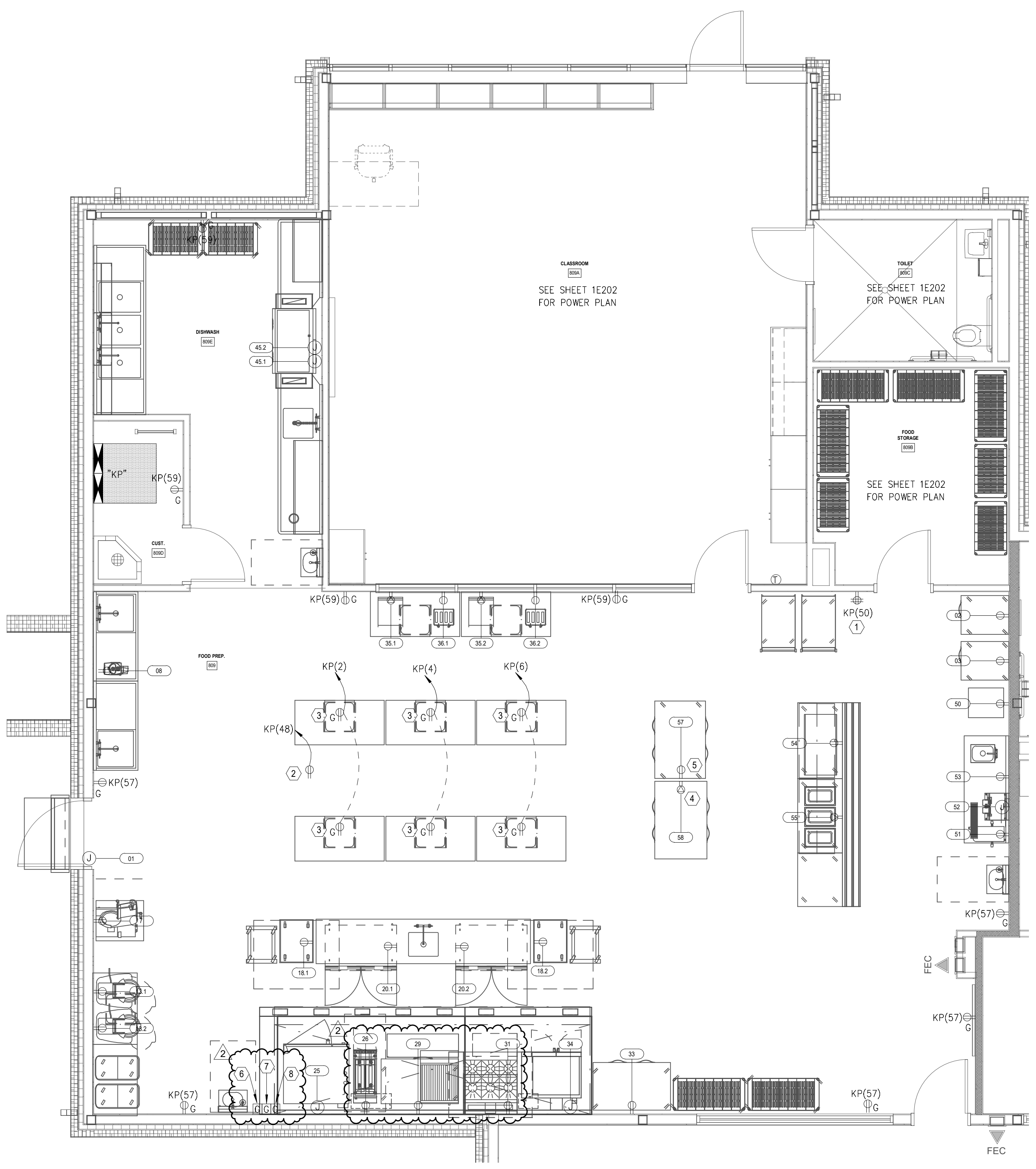
mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

MATRIX ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

SEALS

STATE OF SOUTH CAROLINA
MCMILLAN PAZDAN SMITH
No. 9801
05.12.21



ENLARGED KITCHEN POWER PLAN
1E204 1/4" = 1'-0"

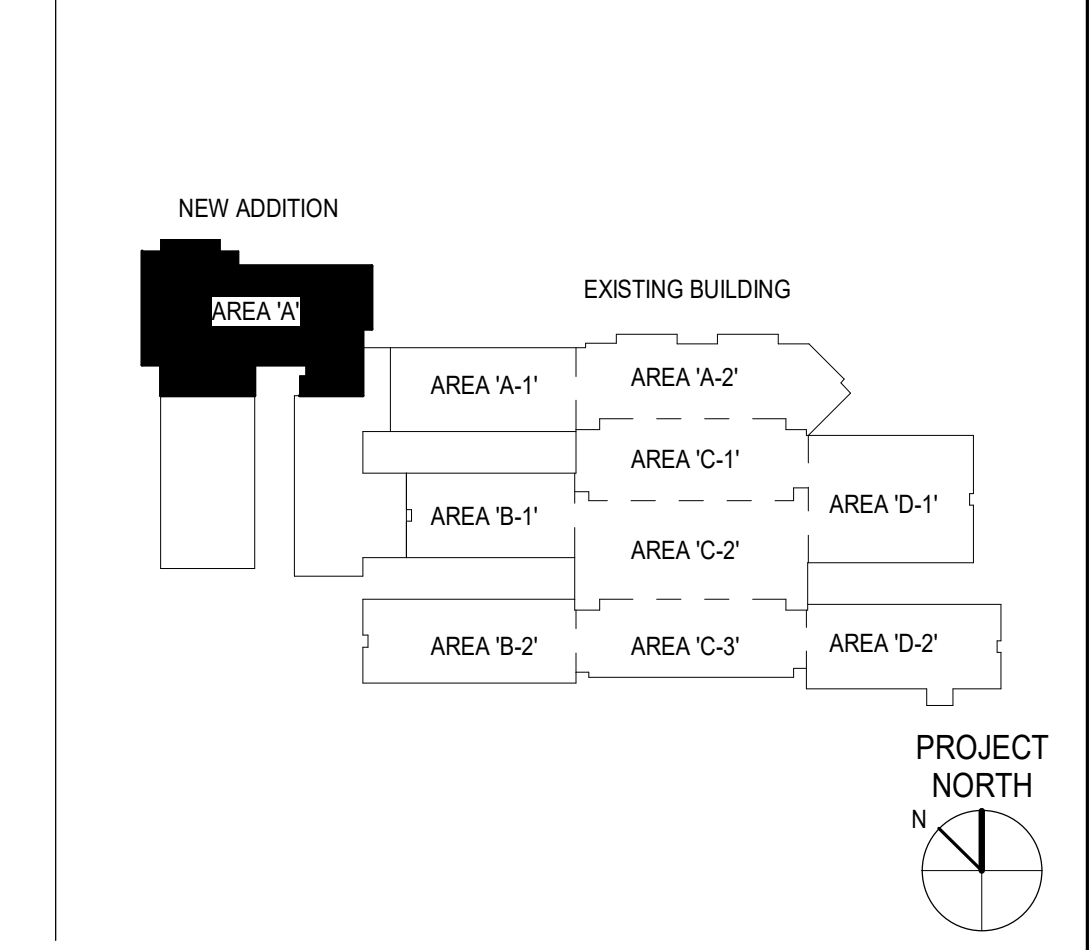
ITEM	DESCRIPTION	PANEL-CKT#	CB/P/POLES	VOLTAGE/PH	WIRE-CONDUIT	ELECTRICAL CONNECTION	NOTES
01	AIR CURTAIN	KP(1)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	DIRECT CONNECTION, ELECTRICAL CONTRACTOR TO PROVIDE DOOR SWITCH	
02	REACH-IN REFRIGERATOR	KP(43)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
03	REACH-IN FREEZER	KP(45)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
07	MEAT SLICER	KP(5)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
08	FOOD PROCESSOR	KP(3)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
13.1	PLANETARY MIXER	KP(7)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
13.2	PLANETARY MIXER	KP(9)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
18.1	MOBILE ENCLOSED CABINET	KP(12)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	STUB UP. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
18.2	MOBILE ENCLOSED CABINET	KP(16)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	STUB UP. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
20.1	UNDERCOUNTER REFRIGERATOR	KP(14)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	STUB UP. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
20.2	UNDERCOUNTER REFRIGERATOR	KP(18)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	STUB UP. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
25	ELECTRIC COMBI OVEN**	KP(11,15)	80A/2P/ST	208V/3PH	(3)#6, #10-3/4"	DIRECT CONNECTION	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
26	GAS FRYER**	KP(19)	20A/1P/ST	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
29	WORKTOP COOK STAND FREEZER**	KP(23)	20A/1P/ST	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
31	36" RANGE & OPEN BURNERS**	KP(27)	20A/1P/ST	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
33	REACH-IN FREEZER	KP(10)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+80" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
34	ELECTRIC CONNECTION OVEN**	KP(13,35)	80A/2P/ST	208V/3PH	(3)#6, #10-1/2"	DIRECT CONNECTION	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
35.1	MICROWAVE OVEN	KP(20,22)	20A/2P	208V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 6-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
35.2	MICROWAVE OVEN	KP(26,28)	20A/2P	208V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 6-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
36.1	POP-UP TOASTER	KP(24)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
36.2	POP-UP TOASTER	KP(30)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
45.1	CONVEYOR TYPE DISHWASHER	DPF(24,6)	40A/2P	480V/3PH	(3)#8, #10G-3/4"	DIRECT CONNECTION	+64" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
45.2	BOOSTER HEATER	DPF(8,10,12)	50A/3P	480V/3PH	(3)#6, #10G-1"	DIRECT CONNECTION	+64" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
50	CUBE ICE MAKER WITH BIN	KP(47)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
51	ICED TEA BREWER	KP(55)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
52	COFFEE BREWER	KP(51,53)	40A/2P	208V/1PH	(2)#8, #10G-3/4"	DIRECT CONNECTION	+48" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
53	GENERATOR COUNTER	KP(49)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-20R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	+24" AFF TO CENTER OF BOX. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
54	COLD FOOD SERVING COUNTER	KP(38)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	STUB UP. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
55	HOT FOOD SERVING COUNTER	KP(40,42)	20A/2P	208V/1PH	(3)#12, #12G-3/4"	PROVIDE NEMA 14-20R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	STUB UP. COORDINATE WITH EQUIPMENT PRIOR TO INSTALLING.
57	PASS-THRU REFRIGERATOR	KP(32)	20A/1P	120V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 5-15R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	FROM ABOVE.
58	PASS-THRU HEATED CABINET	KP(34,36)	20A/2P	208V/1PH	(2)#12, #12G-3/4"	PROVIDE NEMA 6-20R RECEPTACLE TO MATCH PROVIDED CORD WITH PLUG	FROM ABOVE.

** SHUNT TRIP CIRCUIT BREAKER REQUIRED

KEYED NOTES:

- 1 DATA QUAD RECEPTACLE FOR AV HEAD END EQUIPMENT. COORDINATE EXACT LOCATION WITH ARCHITECT/TECHNOLOGY CONTRACTOR PRIOR TO INSTALLING.
- 2 DENOTES CEILING MOUNTED RECEPTACLE FOR AV COMPONENT. COORDINATE WITH TELECOMMUNICATION DRAWINGS FOR EXACT LOCATION PRIOR TO INSTALLING.
- 3 DENOTES CEILING MOUNTED INDUSTRIAL RETRACTABLE CORD REEL WITH GFCI 20A RECEPTACLE. CORD TO BE 25 FEET. PROVIDE HUBBELL CATALOG #HBL-45-12-3-GF20-4 OR APPROVED EQUAL.
- 4 DENOTES CEILING MOUNTED INDUSTRIAL RETRACTABLE CORD REEL WITH 6-20R RECEPTACLE. CORD TO BE 25 FEET. PROVIDE HUBBELL CATALOG #HBL-45-12-3-G20-4 OR APPROVED EQUAL.
- 5 DENOTES CEILING MOUNTED INDUSTRIAL RETRACTABLE CORD REEL WITH 20A RECEPTACLE. CORD TO BE 25 FEET. PROVIDE HUBBELL CATALOG #HBL-45-12-3-20-4 OR APPROVED EQUAL.
- 6 DENOTES PASS & SEYMOUR DEAD FRONT SELF-TEST GFCI CATALOG # 2087-FINISH (OR APPROVED EQUAL) TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. DEVICE TO ACT AS GFI PROTECTION AND RESET BUTTON FOR GAS FRYER (26). COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLING.
- 7 DENOTES PASS & SEYMOUR DEAD FRONT SELF-TEST GFCI CATALOG # 2087-FINISH (OR APPROVED EQUAL) TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. DEVICE TO ACT AS GFI PROTECTION AND RESET BUTTON FOR WORKTOP COOK STAND FREEZER (29). COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLING.
- 8 DENOTES PASS & SEYMOUR DEAD FRONT SELF-TEST GFCI CATALOG # 2087-FINISH (OR APPROVED EQUAL) TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. DEVICE TO ACT AS GFI PROTECTION AND RESET BUTTON FOR 36" RANGE (31). COORDINATE EXACT MOUNTING LOCATION WITH OWNER PRIOR TO INSTALLING.

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021

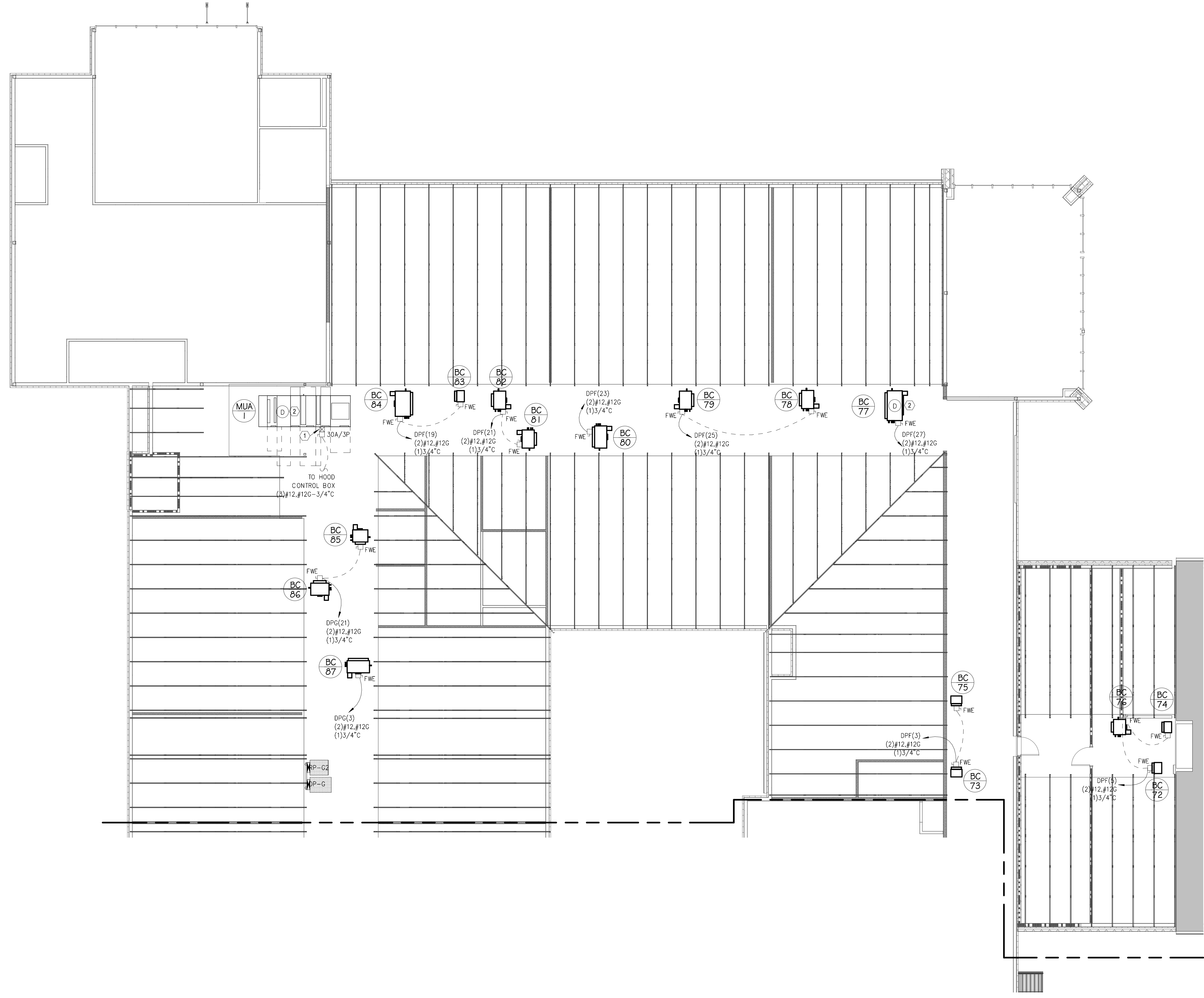
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP,FB,RM

SHEET TITLE:
ENLARGED KITCHEN POWER PLAN & EQUIPMENT WIRING SCHEDULE

SHEET NO. PROJECT NO. 2020-124

1E204

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1 MECHANICAL PLATFORM MECHANICAL POWER PLAN (AREA A)
 1E300 1/8" = 1'-0"

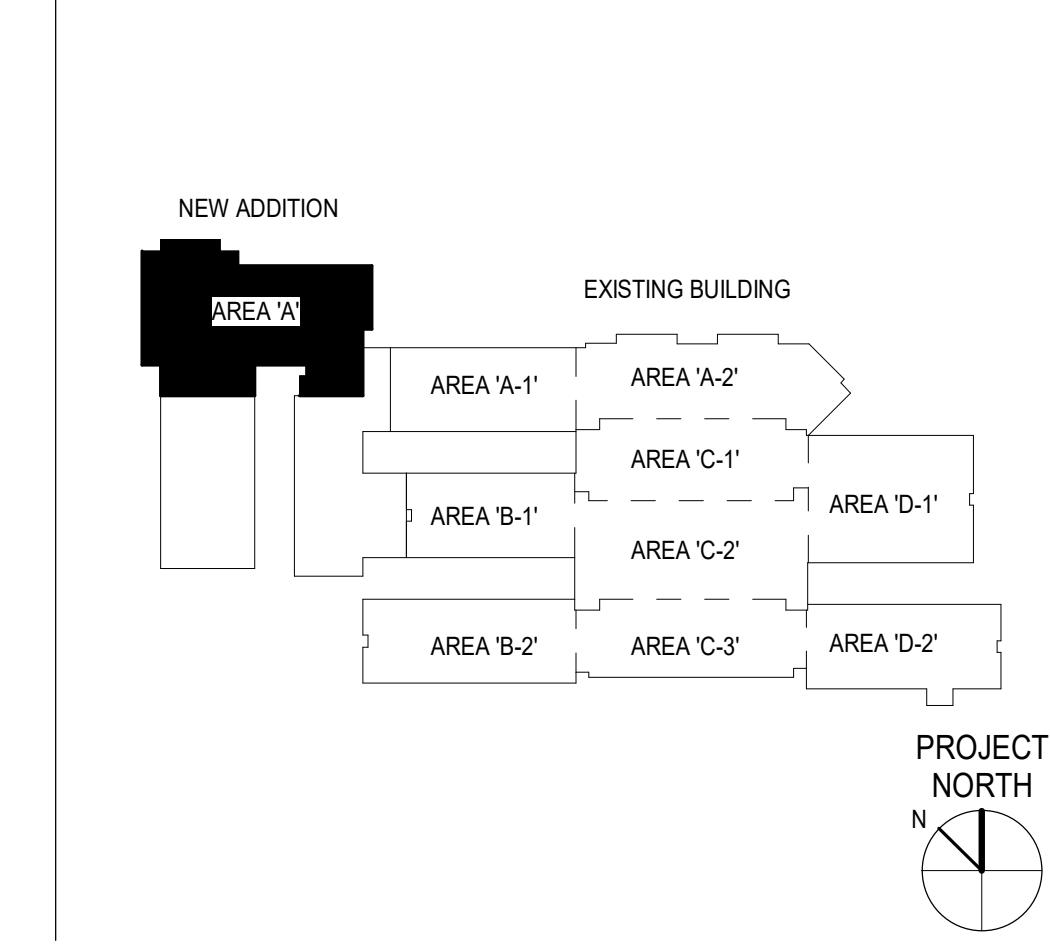
GENERAL NOTES:

1. "FWE" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
2. COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL CONTRACTOR.
3. ALL DISCONNECT SWITCHES SHALL BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
4. ALL DISCONNECT SWITCHES TO BE HEAVY DUTY.
5. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

KEYED NOTES:

- ① DENOTES VFD TO BE FURNISHED BY MECHANICAL CONTRACTOR, MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. WHERE MECHANICAL PLATFORM IS AVAILABLE, MOUNT THE VFD TO BE ACCESSIBLE FROM THE MECHANICAL PLATFORM. COORDINATE WITH MECHANICAL CONTRACTOR.
- ② DENOTES UNIT REQUIRES DUCT SMOKE DETECTOR. DETECTOR PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR. UNIT MOUNTING AND SHUT DOWN BY MECHANICAL CONTRACTOR. SEE FIRE ALARM DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR.

KEY PLAN



mcmillan pazdan smith
 ARCHITECTURE

MATRIX ENGINEERING, INC.
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.6274
 Project Number: 2020-124

05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 175 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

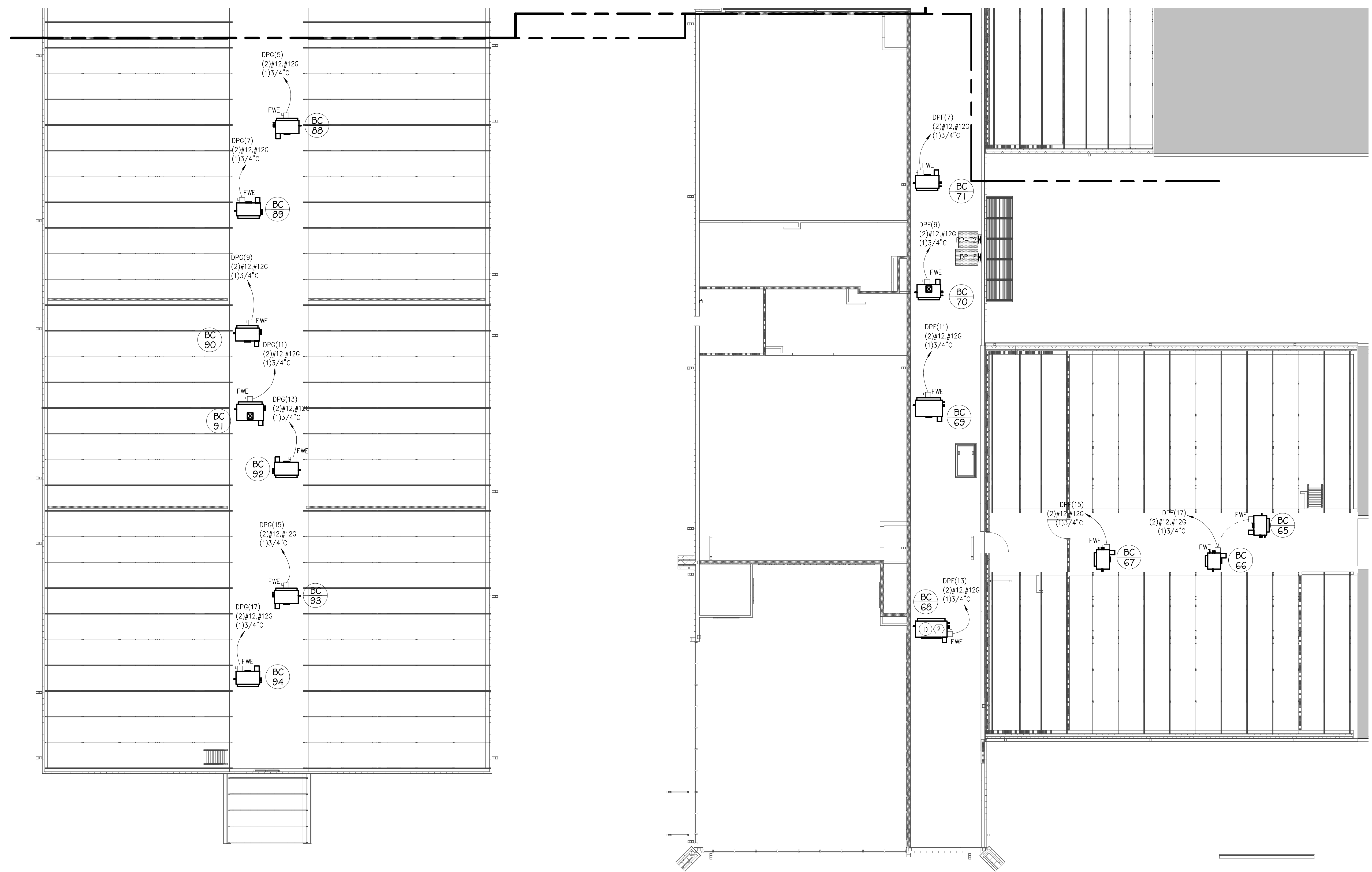
CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
MECHANICAL PLATFORM MECHANICAL POWER PLAN (AREA A)

SHEET NO. PROJ. NO. 2020-124

1E300

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MECHANICAL PLATFORM MECHANICAL POWER PLAN (AREA A CONTINUED)
1E301 1/8" = 1'-0"

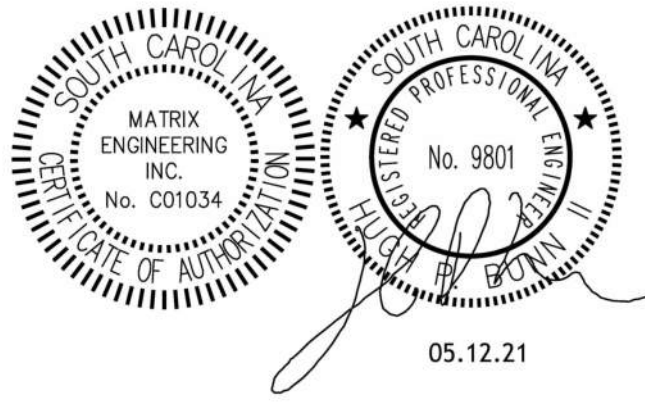
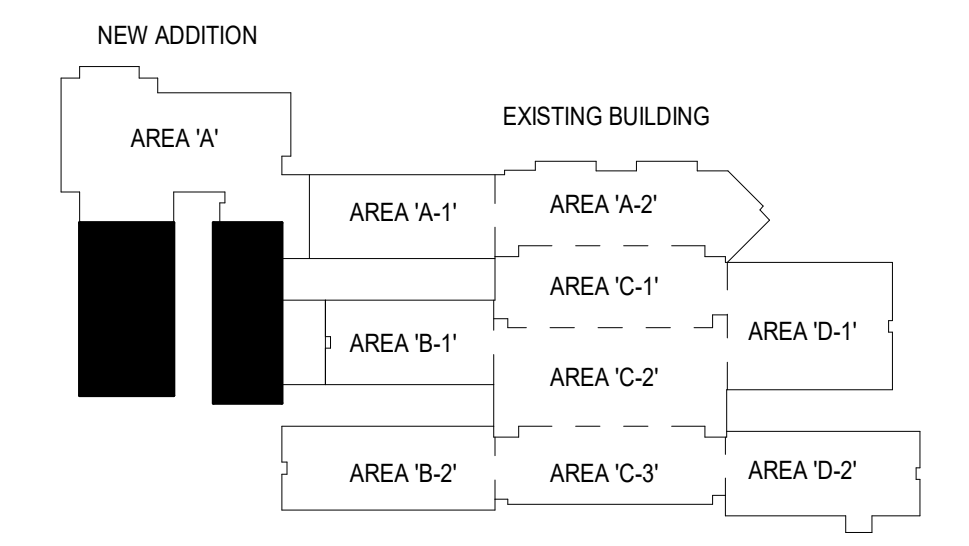
GENERAL NOTES:

1. "FWE" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
2. COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL CONTRACTOR.
3. ALL DISCONNECT SWITCHES SHALL BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
4. ALL DISCONNECT SWITCHES TO BE HEAVY DUTY.
5. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

KEYED NOTES:

1. DELETED
2. DENOTES UNIT REQUIRES DUCT SMOKE DETECTOR. DETECTOR PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR. UNIT MOUNTING AND SHUT DOWN BY MECHANICAL CONTRACTOR. SEE FIRE ALARM DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR.

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
125 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP, RB, RM

SHEET TITLE:
MECHANICAL PLATFORM
MECHANICAL POWER
PLAN (AREA A
CONTINUED)

SHEET NO. PROJ. NO.
2020-124

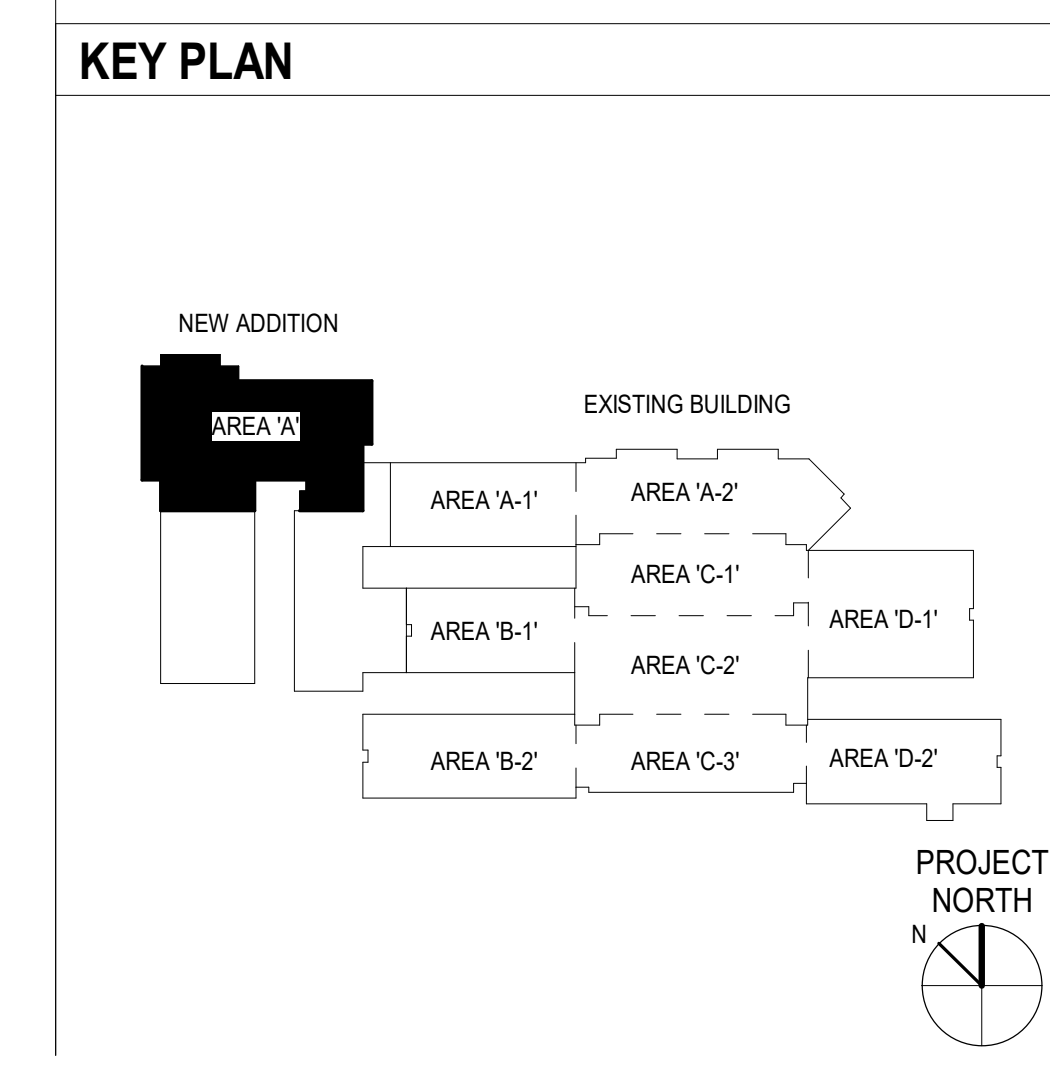
1E301

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- GENERAL NOTES:**
1. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FOR HOOD SYSTEMS. HOOD SYSTEM CONSISTS OF HOOD MOTOR CONTROL BOX, QTY (1) SUPPLY FAN, QTY (1) EXHAUST FAN, HOOD LIGHTING, AND ANSUL FIRE EXTINGUISHING SYSTEM WITH MICRO SWITCHES AND INTERCONNECTING WIRING TO THE CONTROL BOX.
 2. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FOR HOOD SUPPLY AND EXHAUST FANS FROM HOOD MOTOR CONTROL BOX TO FANS. PROVIDE CONTROL SYSTEM WIRING SO THAT IN THE EVENT THE SUPPRESSION SYSTEM IS ACTIVATED, MAKE-UP AIR SUPPLY FAN SHALL BE DE-ENERGIZED, AND THE EXHAUST FAN SHALL REMAIN ENERGIZED.
 3. ALL POWER TO EQUIPMENT UNDER THE HOOD SHALL DE-ENERGIZE UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM BY USE OF AUXILIARY CONTACTS TO SHUNT TRIP CIRCUIT BREAKERS SUPPLYING POWER TO THE EQUIPMENT UNDER HOOD.
 4. SEE CAPTIVE AIRE DRAWINGS PROVIDED WITH HOOD SYSTEM FOR ALL WIRING INFORMATION. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR A COMPLETE OPERATIONAL AND CODE COMPLIANT HOOD SYSTEM.
 5. "FWE" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
 6. ALL DISCONNECT SWITCHES SHALL BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR UNLESS NOTED OTHERWISE.
 7. ALL DISCONNECT SWITCHES TO BE HEAVY DUTY.
 8. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

- KEYED NOTES:**
- 1 DENOTES MOTOR STARTER TO BE FURNISHED BY MECHANICAL CONTRACTOR. MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. WHERE EQUIPMENT MEZZANINE IS AVAILABLE, MOUNT THE MOTOR STARTER TO BE ACCESSIBLE FROM THE MEZZANINE. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 2 DENOTES UNIT REQUIRES DUCT SMOKE DETECTOR. DETECTOR PROVIDED AND WIRED BY FIRE ALARM CONTRACTOR. UNIT MOUNTING AND SHUT DOWN BY MECHANICAL CONTRACTOR. SEE FIRE ALARM DRAWINGS. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 3 DENOTES EXHAUST FAN TO BE WIRED THRU LINE VOLTAGE THERMOSTAT PROVIDED BY MECHANICAL CONTRACTOR. MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 4 DENOTES INDOOR DSS UNIT WIRED FROM OUTDOOR CONDENSING UNIT. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 5 DENOTES DISHWASHER EXHAUST FAN TO BE WIRED THRU FACE MOUNTED TOGGLE SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 6 DENOTES JUNCTION BOX FOR RESIDENTIAL HOOD EXHAUST FAN. EXHAUST FAN TO BE WIRED THRU FACE MOUNTED TOGGLE SWITCH. COORDINATE WITH MECHANICAL CONTRACTOR.
 - 7 DENOTES RESIDENTIAL FIRE SUPPRESSION TYPE HOOD. ELECTRICAL CONTRACTOR TO PROVIDE INTERCONNECTION WIRING FROM HOOD SYSTEM TO RANGE SHUT-DOWN DEVICE PROVIDED WITH SYSTEM. COORDINATE WITH EXHAUST HOOD INSTALLATION DRAWINGS.
 - 8 DENOTES VFD TO BE FURNISHED BY MECHANICAL CONTRACTOR. MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. WHERE EQUIPMENT MEZZANINE IS AVAILABLE, MOUNT THE VFD TO BE ACCESSIBLE FROM THE MEZZANINE. COORDINATE WITH MECHANICAL CONTRACTOR.



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

MATRIX ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

SEALS

MATRIX ENGINEERING, INC. No. 9801
STATE OF SOUTH CAROLINA
EXPIRES 12/31/2021
05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

152 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021

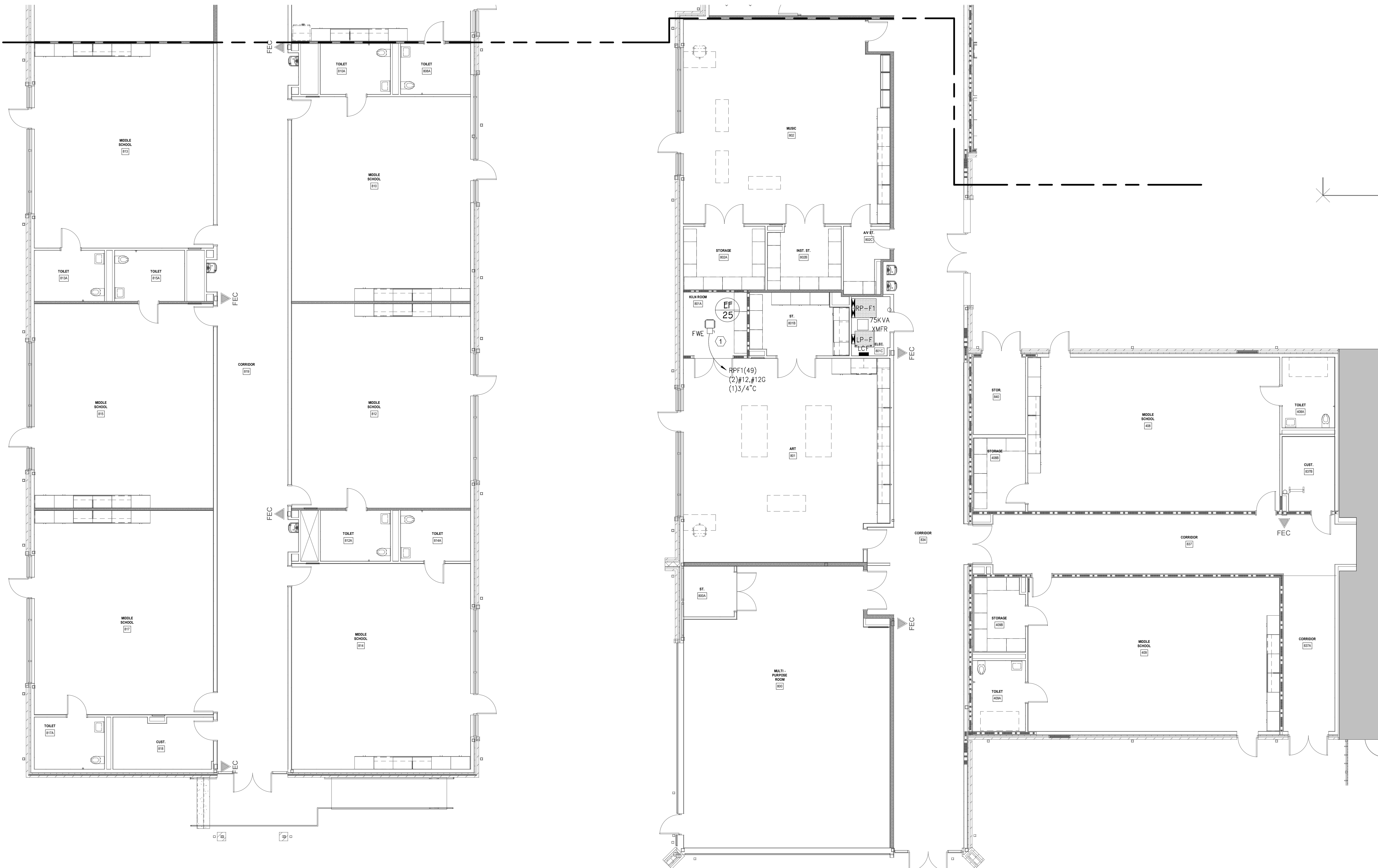
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
MECHANICAL POWER PLAN (AREA A)

SHEET NO. PROJ. NO. 2020-124

1E302

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1 MECHANICAL POWER PLAN (AREA A CONTINUED)
1E303 1/8" = 1'-0"

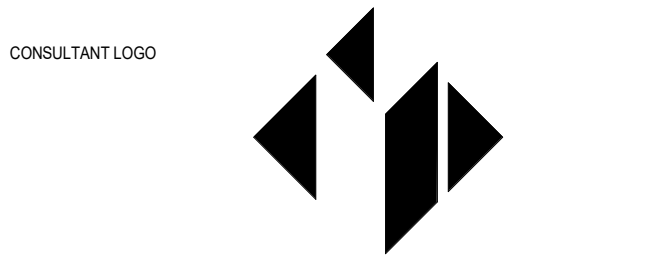
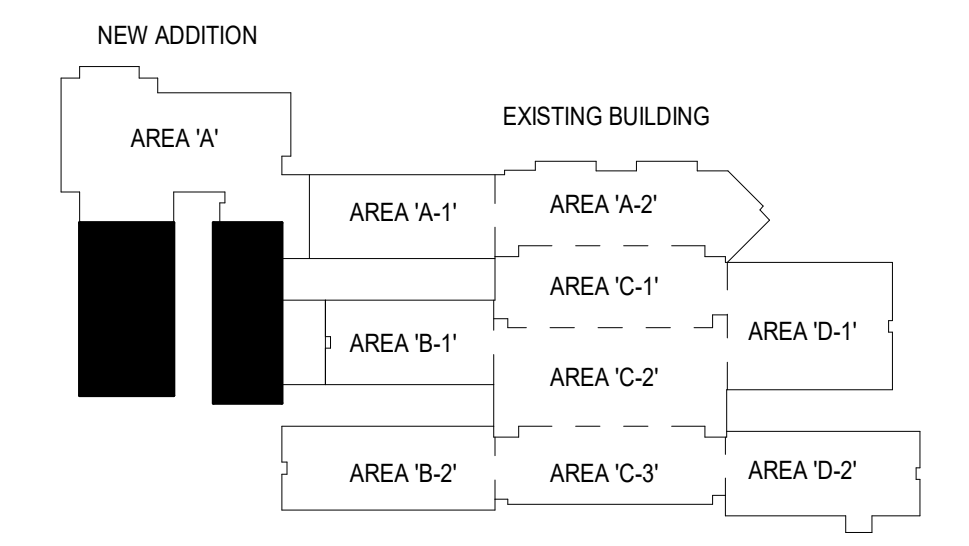
GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FOR HOOD SYSTEMS. HOOD SYSTEM CONSISTS OF HOOD MOTOR CONTROL BOX, QTY (1) SUPPLY FAN, QTY (1) EXHAUST FAN, HOOD LIGHTING, AND ANSUL FIRE EXTINGUISHING SYSTEM WITH MICRO SWITCHES AND INTERCONNECTING WIRING TO THE CONTROL BOX.
2. ELECTRICAL CONTRACTOR TO PROVIDE ALL WIRING FOR HOOD SUPPLY AND EXHAUST FANS FROM HOOD MOTOR CONTROL BOX TO FANS. PROVIDE CONTROL SYSTEM WIRING SO THAT IN THE EVENT THE SUPPRESSION SYSTEM IS ACTIVATED, MAKE-UP AIR SUPPLY FAN SHALL BE DE-ENERGIZED, AND THE EXHAUST FAN SHALL REMAIN ENERGIZED.
3. ALL POWER TO EQUIPMENT UNDER THE HOOD SHALL DE-ENERGIZE UPON ACTIVATION OF THE FIRE SUPPRESSION SYSTEM BY USE OF AUXILIARY CONTACTS TO SHUNT TRIP CIRCUIT BREAKERS SUPPLYING POWER TO THE EQUIPMENT UNDER HOOD (IF REQUIRED).
4. SEE CAPTIVE AIRE DRAWINGS PROVIDED WITH HOOD SYSTEM FOR ALL WIRING INFORMATION. ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CONDUIT AND WIRING REQUIRED FOR A COMPLETE OPERATIONAL AND CODE COMPLIANT HOOD SYSTEM.
5. "FWE" ADJACENT TO DEVICE DENOTES DEVICE TO BE FURNISHED WITH EQUIPMENT.
6. COORDINATE ALL ELECTRICAL WORK WITH MECHANICAL CONTRACTOR.
7. ALL DISCONNECT SWITCHES TO BE HEAVY DUTY.
8. HATCHED AREA IN FRONT OF ELECTRICAL PANELS DENOTES N.E.C. REQUIRED CLEARANCE AREA.

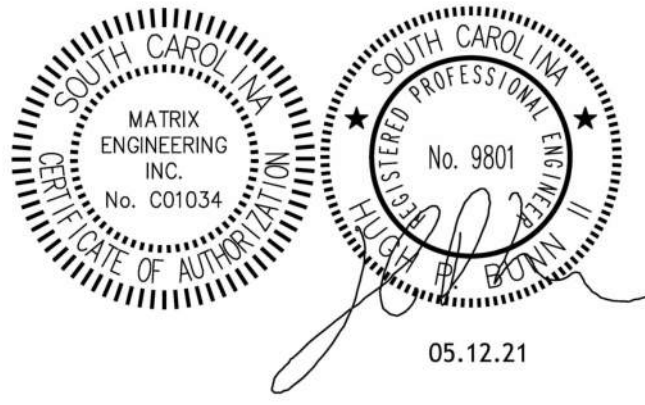
KEYED NOTES:

- 1 DENOTES KILN EXHAUST FAN TO BE WIRED THRU LINE VOLTAGE THERMOSTAT & TIMED SWITCH IN PARALLEL. BOTH PROVIDED BY MECHANICAL CONTRACTOR. MOUNTED AND WIRED BY ELECTRICAL CONTRACTOR. COORDINATE WITH MECHANICAL CONTRACTOR.

KEY PLAN



912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124



SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

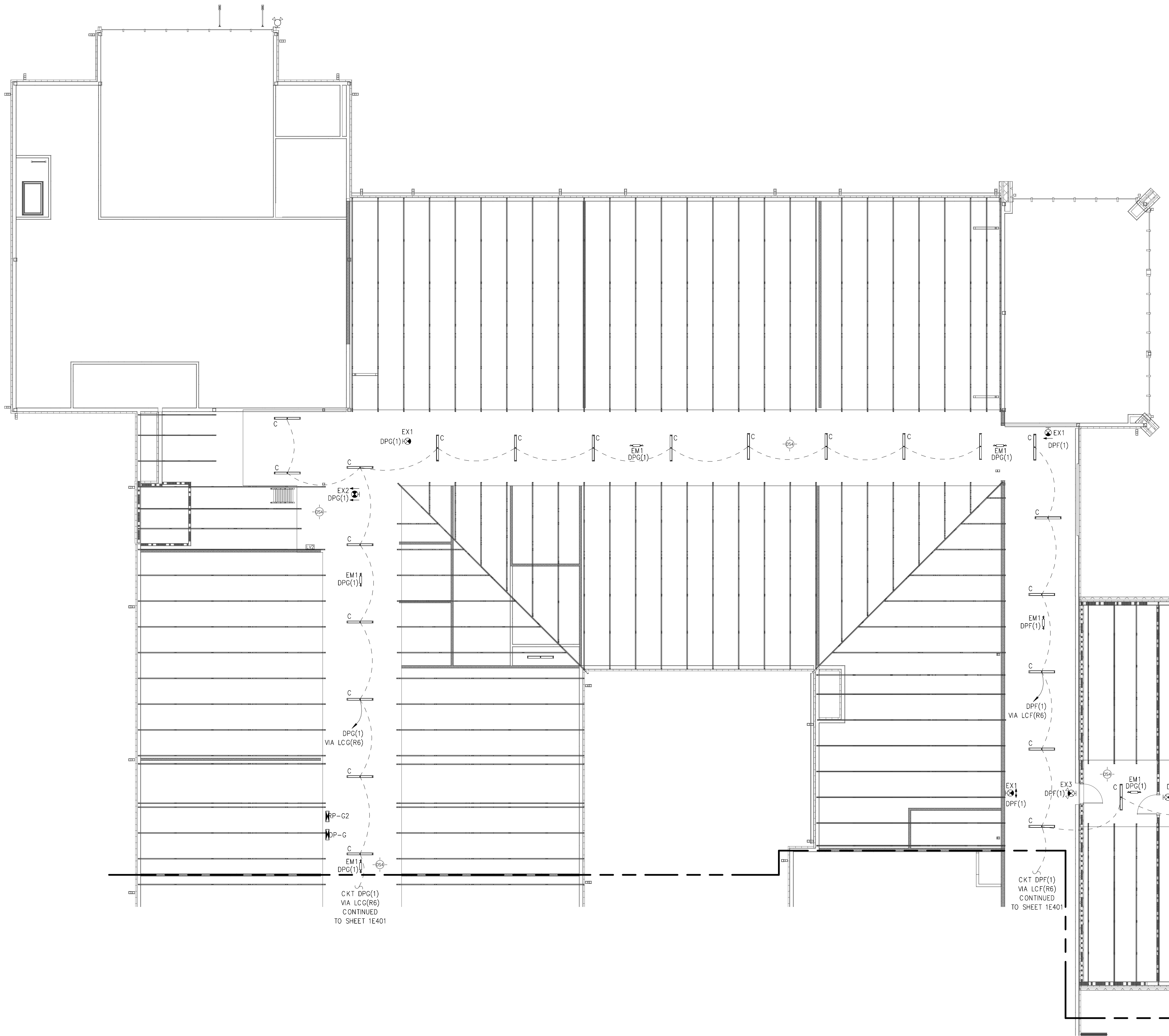
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
MECHANICAL POWER
PLAN (AREA A
CONTINUED)

SHEET NO. PROJ. NO.
2020-124

1E303

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LIGHTING CONTROL LEGEND

	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMUC-100-2
	PENDANT MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
	POWER PACK WATTSTOPPER CATALOG #BZ50
	LOCAL TOGGLE SWITCH, S.F.S.T., 20 AMP, SPEC. GRADE.
	LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC. GRADE.
	LOCAL TOGGLE SWITCH, 4-WAY 20 AMP, SPEC. GRADE.
	UL-924 EMERGENCY POWER CONTROL EMERGI-LITE CATALOG #EPC-2
	WALL MOUNTED OCCUPANCY SENSOR WATTSTOPPER CATALOG #DW-100-FINISH
	WALL MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING WATTSTOPPER CATALOG #DW-311-FINISH
	LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #LMSW-105-FINISH
	LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #LMSW-101-FINISH
	1-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-211
	2-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-212
	3-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-213

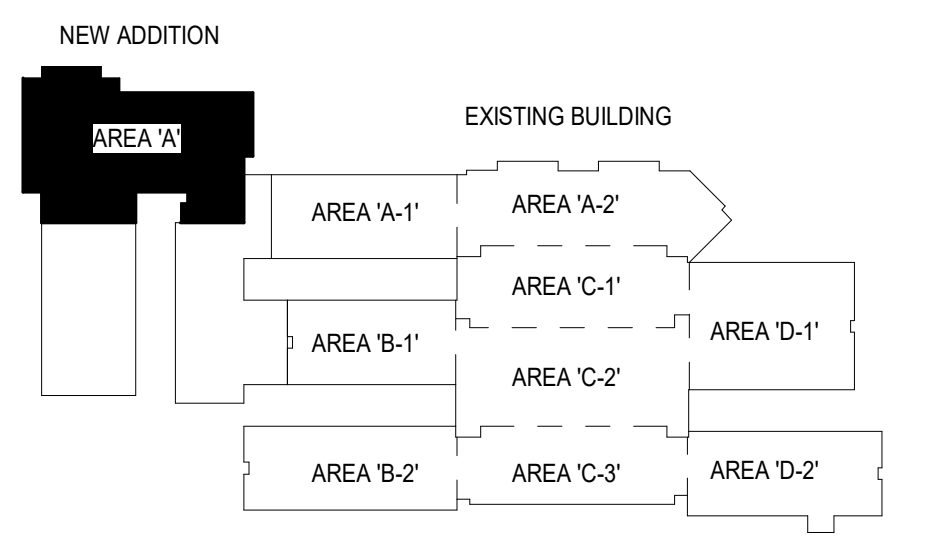
OCCUPANCY SENSOR NOTES

- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 6 FEET TO AIR SUPPLY/RETURN REGISTERS.
- ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.

- ### GENERAL NOTES:
- ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
 - LIGHT FIXTURE SYMBOLS WITH THE SUFFIX "E" AND A DIAGONAL LINE DENOTE FIXTURES WITH EMERGENCY BATTERY BACK-UP BALLAST REQUIRING UN-SWITCHED "HOT" WIRE FOR BATTERY CHARGING.
 - HALF-SHADED LIGHT FIXTURES DENOTE NIGHT LIGHT. WIRE FIXTURE "HOT" UN-SWITCHED.
 - ELECTRICAL CONTRACTOR TO WIRE LIGHTING CIRCUIT THROUGH AREA LIGHTING CONTROL PANEL WHERE INDICATED.
 - ELECTRICAL CONTRACTOR SHALL WIRE ALL EXIT SIGNS, AND EMERGENCY BATTERY PACKS AHEAD OF THE LIGHTING CONTROL PANEL.
 - ELECTRICAL CONTRACTOR TO WIRE ALL EXIT SIGNAGE UN-SWITCHED TO THE LOCAL LIGHTING CIRCUIT IN THE ROOM WHERE MOUNTED.
 - IN ROOMS THAT HAVE BOTH OCCUPANCY SENSOR AND SWITCHES, WIRE OCCUPANCY SENSOR AHEAD OF AND IN SERIES WITH SWITCHES.
 - ALL LAY-IN LIGHT FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO THE BUILDING STRUCTURE OR HURRICANE CLIPS. ANY LIGHT FIXTURE WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
 - LOWER-CASE LETTER ADJACENT TO LIGHT FIXTURE DENOTES SWITCH-DESIGNATION.
 - EXTERIOR LIGHT FIXTURES TO BE WIRED WITH (2)#10, #10IG IN (1)3/4" C.
 - MOUNT POWER PACKS ABOVE CEILING IN ACCESSIBLE LOCATION.
 - ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
 - ELECTRICAL CONTRACTOR TO VERIFY NO LIGHT FIXTURES ARE MOUNTED BELOW 6'-8" AFF. COORDINATE WITH ALL OTHER TRADES AND EQUIPMENT.

KEYED NOTES:

KEY PLAN



1 MECHANICAL PLATFORM LIGHTING PLAN (AREA A)
 1E400 / 1/8" = 1'-0"

**mcmillan
pazdan
smith**
 ARCHITECTURE

**MATRIX
ENGINEERING, INC.**
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.6274
 Project Number: 2020-124

05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
**ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL**
 456 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

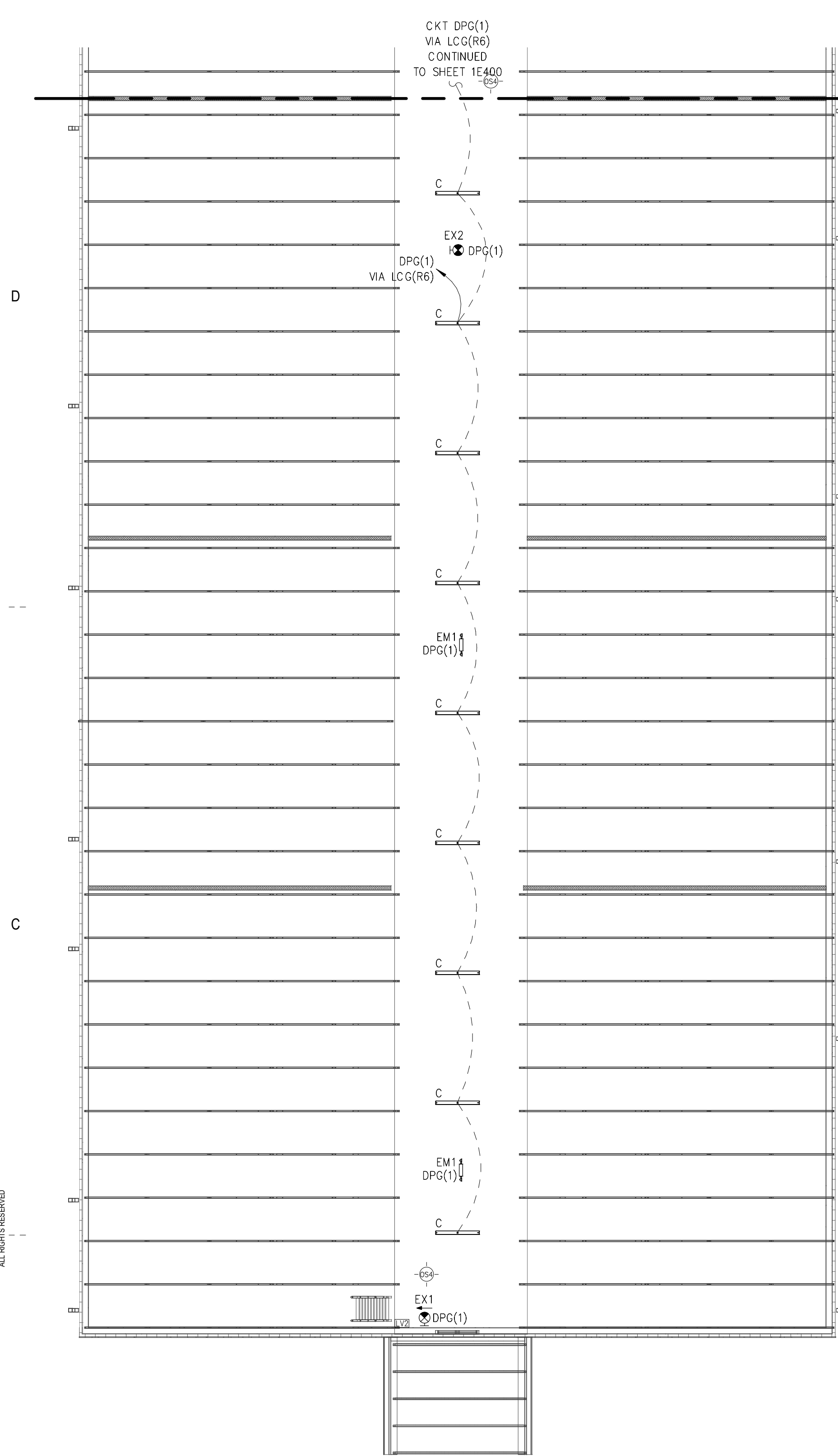
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH, RP, RB, RM

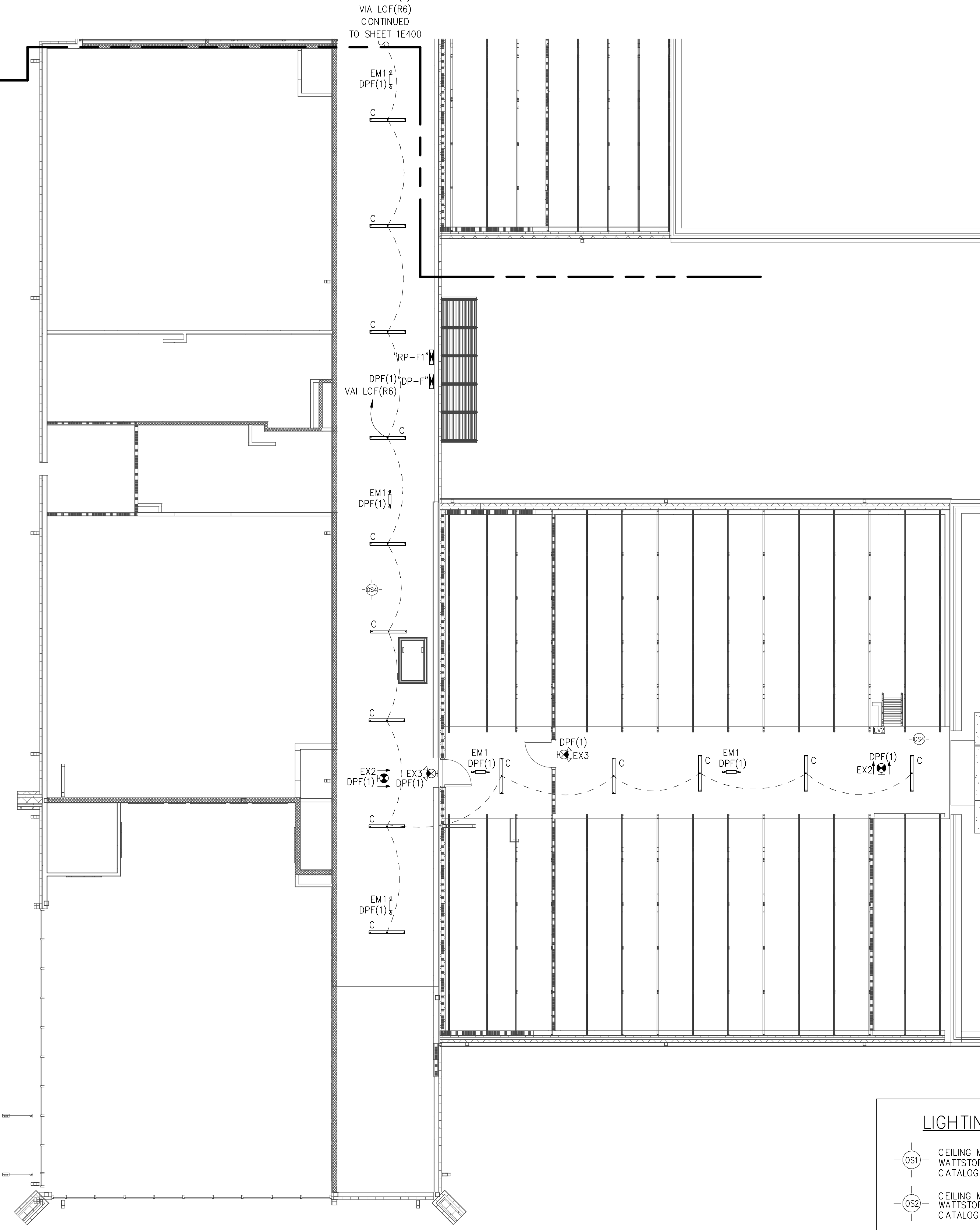
SHEET TITLE:
**MECHANICAL PLATFORM
LIGHTING PLAN (AREA A)**

SHEET NO. PROJ. NO.
 1E400 2020-124

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MECHANICAL PLATFORM LIGHTING PLAN (AREA A CONTINUED)
 1E401 1/8" = 1'-0"



LIGHTING CONTROL LEGEND

	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
	CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMUC-100-2
	PENDANT MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
	CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
	POWER PACK WATTSTOPPER CATALOG #BZ50
	LOCAL TOGGLE SWITCH, S.P.S.T., 20 AMP, SPEC GRADE.
	LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC GRADE.
	LOCAL TOGGLE SWITCH, 4-WAY 20 AMP, SPEC GRADE.
	UL-924 EMERGENCY POWER CONTROL EMERG-LITE CATALOG #EPC-2
	WALL MOUNTED OCCUPANCY SENSOR WATTSTOPPER CATALOG #DW-100-FINISH
	WALL MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING WATTSTOPPER CATALOG #DW-311-FINISH
	LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #LMSW-105-FINISH
	LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #LMSW-101-FINISH
	1-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-211
	2-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-212
	3-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-213

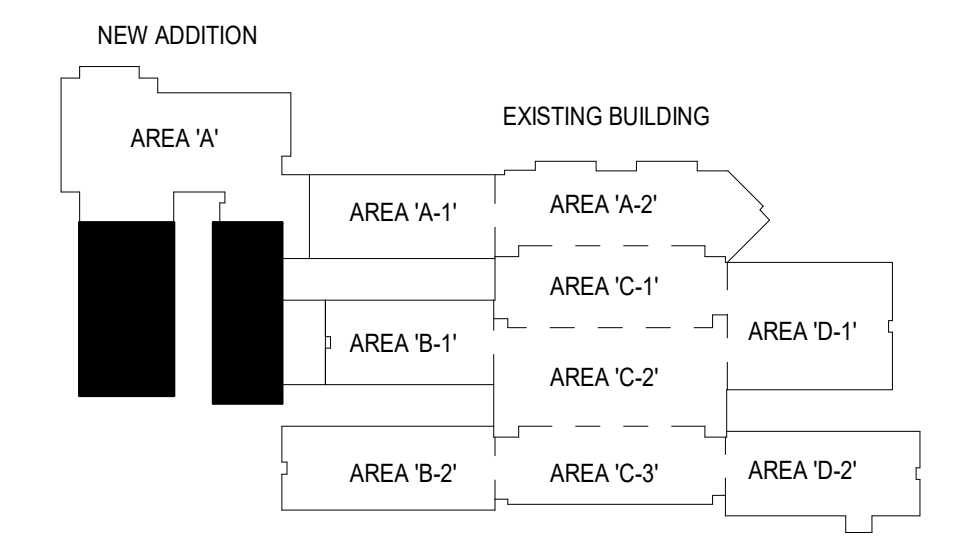
OCCUPANCY SENSOR NOTES

- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 6 FEET TO AIR SUPPLY/RETURN REGISTERS.
- ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.

- GENERAL NOTES:**
- ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
 - LIGHT FIXTURE SYMBOLS WITH THE SUFFIX "E" AND A DIAGONAL LINE DENOTE FIXTURES WITH EMERGENCY BATTERY BACK-UP BALLAST REQUIRING UN-SWITCHED "HOT" WIRE FOR BATTERY CHARGING.
 - HALF-SHADED LIGHT FIXTURES DENOTE NIGHT LIGHT. WIRE FIXTURE "HOT" UN-SWITCHED.
 - ELECTRICAL CONTRACTOR TO WIRE LIGHTING CIRCUIT THROUGH AREA LIGHTING CONTROL PANEL WHERE INDICATED.
 - ELECTRICAL CONTRACTOR SHALL WIRE ALL EXIT SIGNS, AND EMERGENCY BATTERY PACKS AHEAD OF THE LIGHTING CONTROL PANEL.
 - ELECTRICAL CONTRACTOR TO WIRE ALL EXIT SIGNAGE UN-SWITCHED TO THE LOCAL LIGHTING CIRCUIT IN THE ROOM WHERE MOUNTED.
 - IN ROOMS THAT HAVE BOTH OCCUPANCY SENSOR AND SWITCH/SWITCHES, WIRE OCCUPANCY SENSOR AHEAD OF AND IN SERIES WITH SWITCH/SWITCHES.
 - ALL LAY-IN LIGHT FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO THE BUILDING STRUCTURE OR HURRICANE CLIPS. ANY LIGHT FIXTURE WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
 - LOWER-CASE LETTER ADJACENT TO LIGHT FIXTURE DENOTES SWITCH-DESIGNATION.
 - EXTERIOR LIGHT FIXTURES TO BE WIRED WITH (2)#10, #10G IN (1)3/4" C.
 - MOUNT POWER PACKS ABOVE CEILING IN ACCESSIBLE LOCATION.
 - ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
 - ELECTRICAL CONTRACTOR TO VERIFY NO LIGHT FIXTURES ARE MOUNTED BELOW 6'-8" AFF. COORDINATE WITH ALL OTHER TRADES AND EQUIPMENT.

KEYED NOTES:

KEY PLAN



mcmillan pazdan smith ARCHITECTURE
 CONSULTANT LOGO
MATRIX ENGINEERING, INC.
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.8274
 Project Number: 2020-124
 No. 9801
 05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 175 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
MECHANICAL PLATFORM LIGHTING PLAN (AREA A CONTINUED)

SHEET NO. 1E401
 PROJ. NO. 2020-124

GENERAL NOTES:

1. ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
2. LIGHT FIXTURE SYMBOLS WITH THE SUFFIX "E" AND A DIAGONAL LINE DENOTE FIXTURES WITH EMERGENCY BATTERY BACK-UP BALLAST REQUIRING UN-SWITCHED "HOT" WIRE FOR BATTERY CHARGING.
3. HALF-SHADED LIGHT FIXTURES DENOTE NIGHT LIGHT. WIRE FIXTURE "HOT" UN-SWITCHED.
4. ELECTRICAL CONTRACTOR TO WIRE LIGHTING CIRCUIT THROUGH AREA LIGHTING CONTROL PANEL WHERE INDICATED.
5. ELECTRICAL CONTRACTOR SHALL WIRE ALL EXIT SIGNS, AND EMERGENCY BATTERY PACKS AHEAD OF THE LIGHTING CONTROL PANEL.
6. ELECTRICAL CONTRACTOR TO WIRE ALL EXIT SIGNAGE UN-SWITCHED TO THE LOCAL LIGHTING CIRCUIT IN THE ROOM WHERE MOUNTED.
7. IN ROOMS THAT HAVE BOTH OCCUPANCY SENSOR AND SWITCHES, WIRE OCCUPANCY SENSOR AHEAD OF AND IN SERIES WITH SWITCHES.
8. ALL LAY-IN LIGHT FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO THE BUILDING STRUCTURE OR HURRICANE CLIPS. ANY LIGHT FIXTURE WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
9. LOWER-CASE LETTER ADJACENT TO LIGHT FIXTURE DENOTES SWITCH-DESIGNATION.
10. EXTERIOR LIGHT FIXTURES TO BE WIRED WITH (2)#10, #10G IN (1)3/4" C.
11. MOUNT POWER PACKS ABOVE CEILING IN ACCESSIBLE LOCATION.
12. ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
13. ALL JUNCTION BOXES INSTALLED ABOVE HARD CEILING IN INDEPENDENT LIVING LAB TO BE MOUNTED SO THAT THEY ARE ACCESSIBLE FROM THE MEZZANINE.
14. ELECTRICAL CONTRACTOR TO PROVIDE 277V CIRCUIT TO LIGHTING CONTROL PANEL LCG FROM PANEL LFP(2) WITH (2)#12,#12G-3/4" C.
15. ELECTRICAL CONTRACTOR TO PROVIDE 277V CIRCUIT TO LIGHTING CONTROL PANEL LCG FROM PANEL LFP(2) WITH (2)#12,#12G-3/4" C.
16. ELECTRICAL CONTRACTOR TO WIRE SWITCHED EMERGENCY LIGHTS IN LOBBY AND INDEPENDENT LIVING AREA VIA UL-924 DEVICE SO THAT IF POWER IS LOST, LIGHTS ARE ILLUMINATED REGARDLESS OF WALL SWITCH POSITION. UL-924 DEVICE FOR LOBBY FIXTURES ARE LOCATED IN ELECTRICAL ROOM 801C. SEE SHEET 1E403 FOR LOCATION.

LIGHTING CONTROL LEGEND

- OS1 CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSSTOPPER CATALOG #LMDC-100
- OS2 CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSSTOPPER CATALOG #DT-300
- OS3 CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WATTSSTOPPER CATALOG #MUC-100-2
- OS4 PENDANT MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSSTOPPER CATALOG #LMDC-100
- OS5 CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSSTOPPER CATALOG #DT-300
- PP POWER PACK WATTSSTOPPER CATALOG #BZ50
- S LOCAL TOGGLE SWITCH, S.P.S.T., 20 AMP, SPEC. GRADE.
- S3 LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC. GRADE.
- S4 LOCAL TOGGLE SWITCH, 4-WAY 20 AMP, SPEC. GRADE.
- EPC UL-924 EMERGENCY POWER CONTROL EMERG-LITE CATALOG #EPC-2
- WS1 WALL MOUNTED OCCUPANCY SENSOR WATTSSTOPPER CATALOG #DW-100-FINISH
- WS2 WALL MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING WATTSSTOPPER CATALOG #DW-311-FINISH
- LV1 LOW VOLTAGE SWITCHING STATION WATTSSTOPPER CATALOG #LMSW-105-FINISH
- LV2 LOW VOLTAGE SWITCHING STATION WATTSSTOPPER CATALOG #LMSW-101-FINISH
- LMRC 1-RELAY DIGITAL ROOM CONTROLLER WATTSSTOPPER CATALOG #LMRC-211
- LMRC 2 2-RELAY DIGITAL ROOM CONTROLLER WATTSSTOPPER CATALOG #LMRC-212
- LMRC 3 3-RELAY DIGITAL ROOM CONTROLLER WATTSSTOPPER CATALOG #LMRC-213

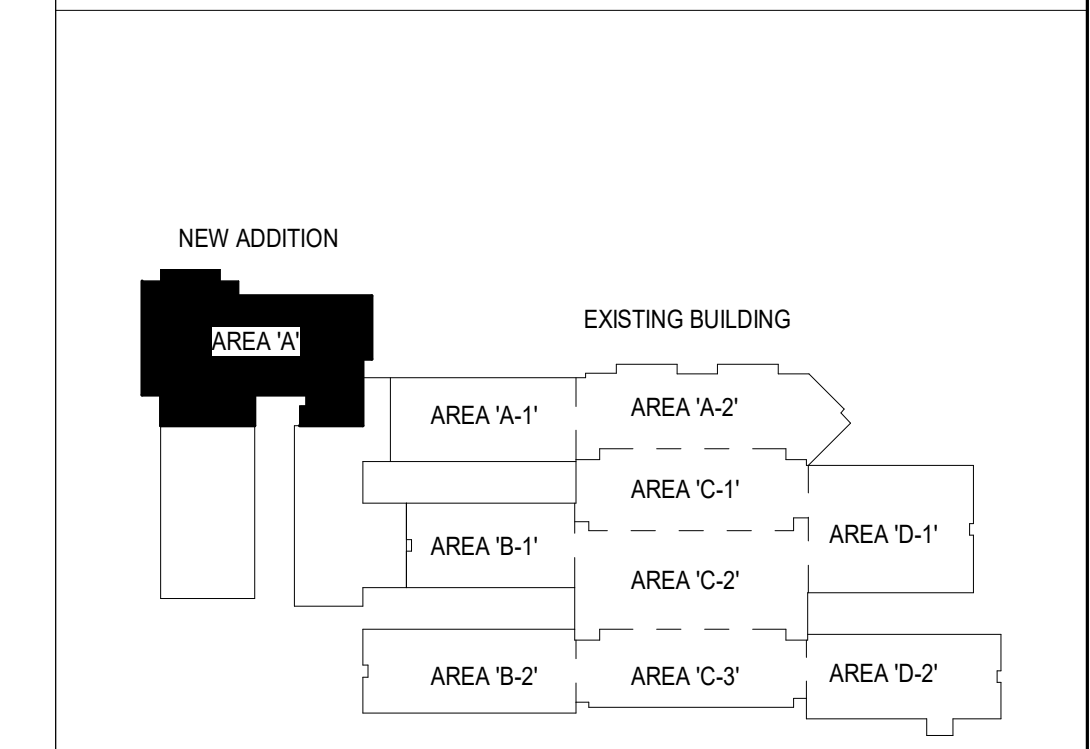
OCCUPANCY SENSOR NOTICES

1. ALL SENSOR LOCATIONS ARE APPROXIMATE, REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
2. ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 8 FEET TO AIR SUPPLY/RETURN REGISTERS.
3. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.

KEYED NOTES:

- 1 DENOTES CIRCUIT LEG WIRED AHEAD OF LIGHTING CONTROL PANEL LCG.
- 2 DENOTES FIXTURE TO HAVE EMERGENCY POWER SUPPLIED BY INVERTER #1. INVERTER #1 LOCATED IN ELECTRICAL ROOM 801C.
- 3 DENOTES INVERTER #2 FOR EMERGENCY POWER TO INDEPENDENT LIVING AREA EMERGENCY FIXTURES. ELECTRICAL CONTRACTOR TO WIRE INVERTER #2 TO RPO3(2) WITH (2)#12,#12G-3/4" CONDUIT. SEE SHEET 1E402 LIGHTING PLAN (AREA A).
- 4 DENOTES FIXTURE TO HAVE EMERGENCY POWER SUPPLIED BY INVERTER #2. INVERTER #2 LOCATED IN MECH 820.

KEY PLAN



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

MATRIX ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

SEALS

MATRIX ENGINEERING, INC. No. 9801
SOUTH CAROLINA
No. C01034
EXPIRES 12/31/2021

05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

425 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021

PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
LIGHTING PLAN (AREA A)

SHEET NO. PROJ. NO. 2020-124

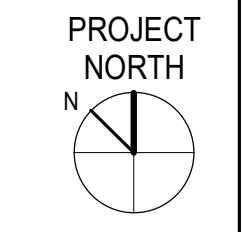
1E402

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1 LIGHTING PLAN (AREA A)
1E402 1/8" = 1'-0"

SEE SHEET 1E404 FOR COURTYARD LIGHTING PLAN



ALL DIMENSIONS AND COORDINATES ARE TO BE TAKEN FROM THE PROJECT'S COMMON REFERENCE POINT (CRP) UNLESS OTHERWISE NOTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE ACCURACY OF ALL DIMENSIONS AND COORDINATES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS.

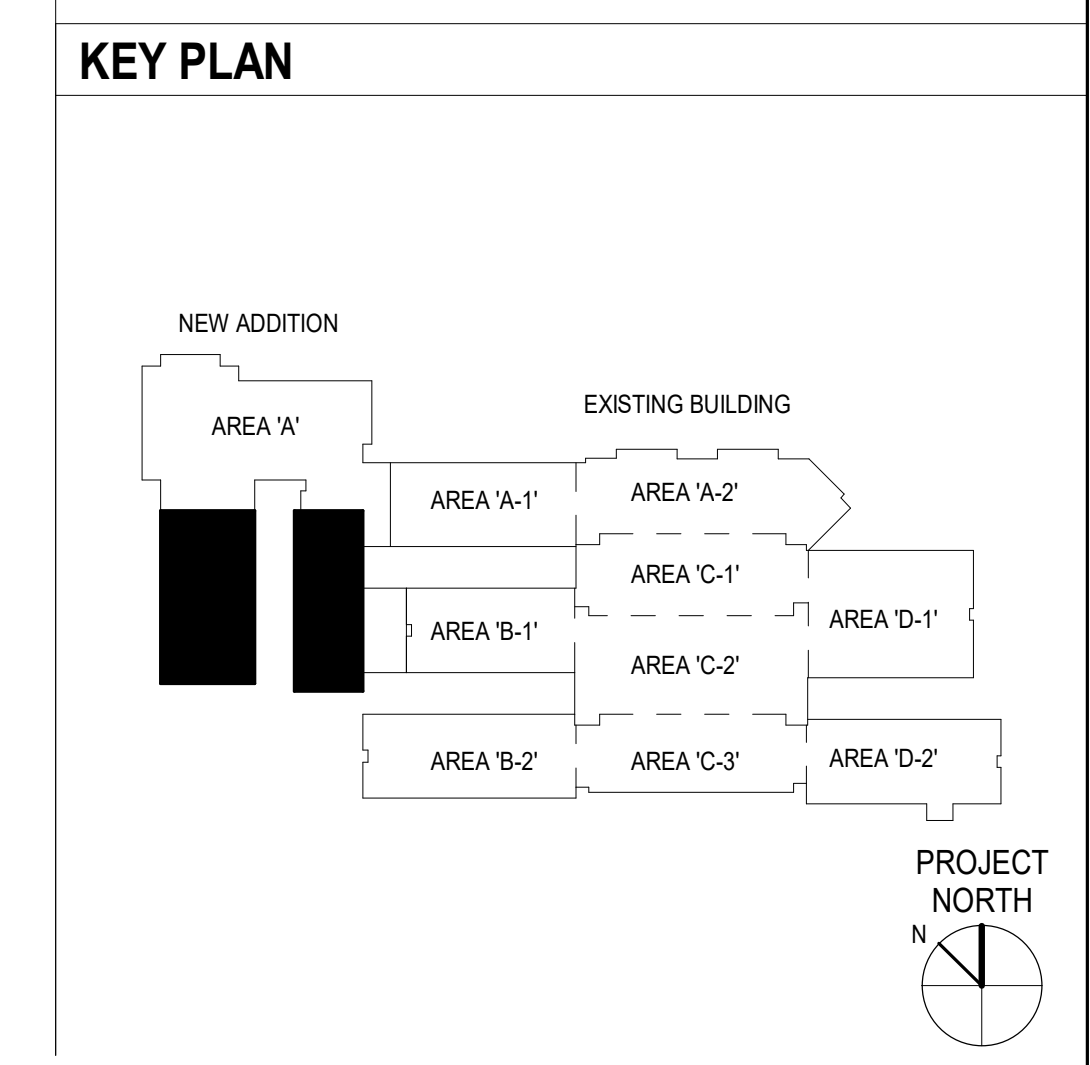


- ### LIGHTING CONTROL LEGEND
- OS1 CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
 - OS2 CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
 - OS3 CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMUC-100-2
 - OS4 PENDANT MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
 - OS5 CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
 - PP POWER PACK WATTSTOPPER CATALOG #P250
 - S LOCAL TOGGLE SWITCH, S.P.S.T., 20 AMP, SPEC. GRADE.
 - S3 LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC. GRADE.
 - S4 LOCAL TOGGLE SWITCH, 4-WAY 20 AMP, SPEC. GRADE.
 - EPC UL-924 EMERGENCY POWER CONTROL EMERG-LITE CATALOG #EPC-2
 - WS1 WALL MOUNTED OCCUPANCY SENSOR WATTSTOPPER CATALOG #DW-100-FINISH
 - WS2 WALL MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING WATTSTOPPER CATALOG #DW-311-FINISH
 - LV1 LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #LWSW-105-FINISH
 - LV2 LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #LWSW-101-FINISH
 - LMRC 1-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-211
 - LMRC2 2-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-212
 - LMRC3 3-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-213

- ### OCCUPANCY SENSOR NOTES
1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
 2. ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 6 FEET TO AIR SUPPLY/RETURN REGISTERS.
 3. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.

- ### GENERAL NOTES:
1. ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
 2. LIGHT FIXTURE SYMBOLS WITH THE SUFFIX "E" AND A DIAGONAL LINE DENOTE FIXTURES WITH EMERGENCY BATTERY BACK-UP BALLAST REQUIRING UN-SWITCHED "HOT" WIRE FOR BATTERY CHARGING.
 3. HALF-SHADED LIGHT FIXTURES DENOTE NIGHT LIGHT. WIRE FIXTURE "HOT" UN-SWITCHED.
 4. ELECTRICAL CONTRACTOR TO WIRE LIGHTING CIRCUIT THROUGH AREA LIGHTING CONTROL PANEL WHERE INDICATED.
 5. ELECTRICAL CONTRACTOR SHALL WIRE ALL EXIT SIGNS, AND EMERGENCY BATTERY PACKS AHEAD OF THE LIGHTING CONTROL PANEL.
 6. ELECTRICAL CONTRACTOR TO WIRE ALL EXIT SIGNAGE UN-SWITCHED TO THE LOCAL LIGHTING CIRCUIT IN THE ROOM WHERE MOUNTED.
 7. IN ROOMS THAT HAVE BOTH OCCUPANCY SENSOR AND SWITCH/SWITCHES, WIRE OCCUPANCY SENSOR AHEAD OF AND IN SERIES WITH SWITCH/SWITCHES.
 8. ALL LAY-IN LIGHT FIXTURES SHALL HAVE 12 GAUGE WIRE HANGERS PLACED ON DIAGONAL CORNERS ATTACHED DIRECTLY TO THE BUILDING STRUCTURE OR HURRICANE CLIPS. ANY LIGHT FIXTURE WEIGHING MORE THAN 50 LBS SHALL BE SUPPORTED FROM ALL FOUR CORNERS.
 9. LOWER-CASE LETTER ADJACENT TO LIGHT FIXTURE DENOTES SWITCH DESIGNATION.
 10. EXTERIOR LIGHT FIXTURES TO BE WIRED WITH (2)#10, #10IG IN (1)3/4" C.
 11. MOUNT POWER PACKS ABOVE CEILING IN ACCESSIBLE LOCATION.
 12. ALL WALL MOUNTED COVER PLATES SHALL BE STAINLESS STEEL OR SATIN NICKEL AND MIDSIZED WHERE APPLICABLE. VERIFY FINISH WITH ARCHITECT PRIOR TO PURCHASING AND INSTALLING.
 13. HATCHED AREA DENOTES NO WORK TO BE DONE.
 14. ELECTRICAL CONTRACTOR TO PROVIDE 277V CIRCUIT TO LIGHTING CONTROL PANEL LCF FROM PANEL LRF(2) WITH (2)#12,#12G-3/4" C.
 15. ELECTRICAL CONTRACTOR TO PROVIDE 277V CIRCUIT TO LIGHTING CONTROL PANEL LCG FROM PANEL LPG(2) WITH (2)#12,#12G-3/4" C.

- ### KEYED NOTES:
1. WIRE CIRCUIT LEG AHEAD OF LIGHTING CONTROL PANEL "LCF"
 2. DENOTES INVERTER #1 FOR EMERGENCY POWER TO LOBBY FIXTURE. ELECTRICAL CONTRACTOR TO WIRE INVERTER #1 TO LRF(15) WITH (2)#12,#12G-3/4" CONDUIT. SEE SHEET 1E402 LIGHTING PLAN (AREA A).



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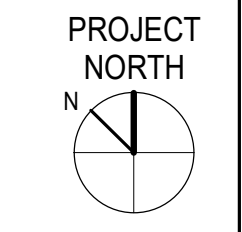
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1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

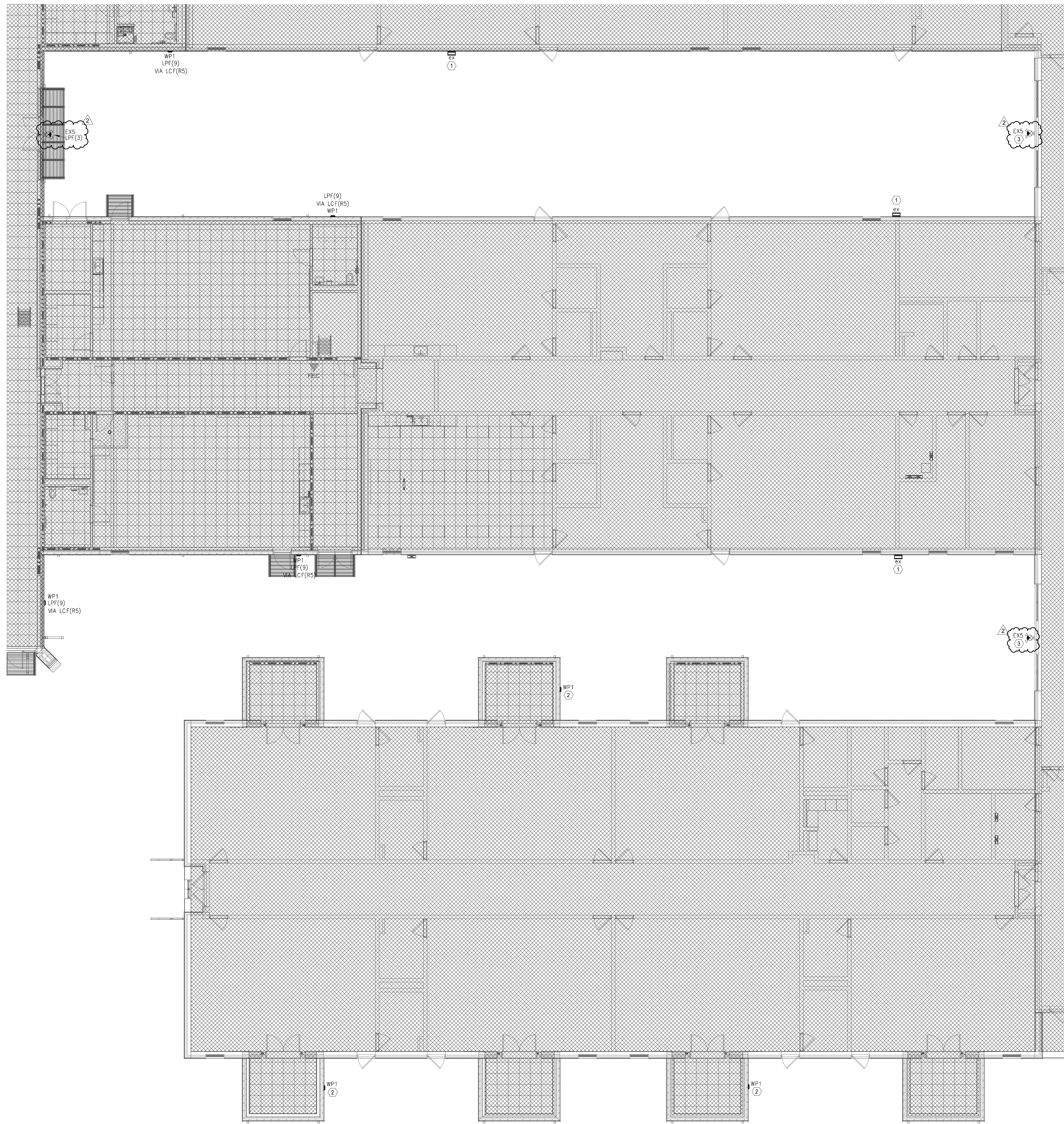
CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
LIGHTING PLAN (AREA A CONTINUED)

SHEET NO. PROJ. NO.
 1E403 2020-124

1 LIGHTING PLAN (AREA A CONTINUED)
 1E403 1/8" = 1'-0"





1 LIGHTING PLAN (COURTYARD)
1E404
1/8" = 1'-0"

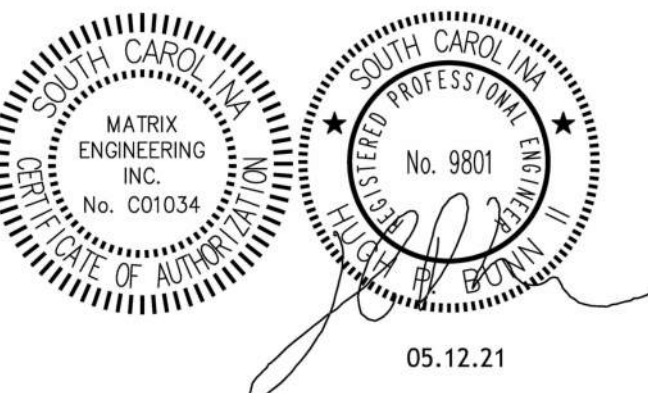
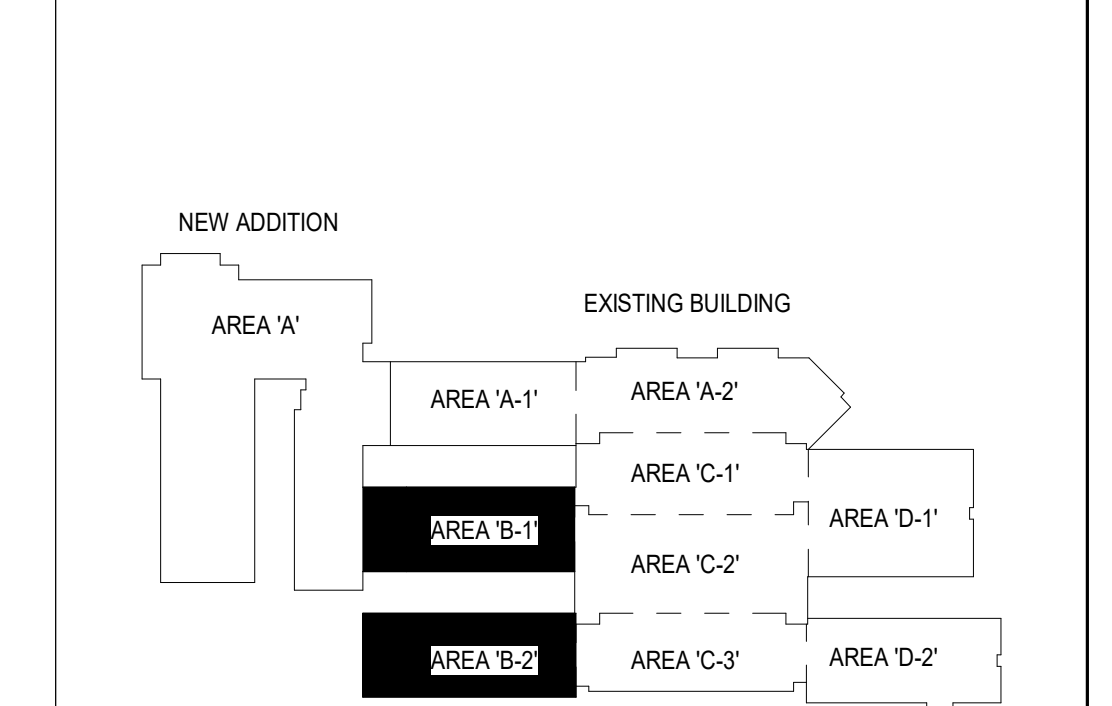
GENERAL NOTES:

1. ALL LIGHT FIXTURES SHALL MEET THE SEISMIC REQUIREMENTS OF ASCE 7.
2. LIGHT FIXTURE SYMBOLS WITH THE SUFFIX "E" AND A DIAGONAL LINE DENOTE FIXTURES WITH EMERGENCY BATTERY BACK-UP BALLAST REQUIRING UN-SWITCHED "HOT" WIRE FOR BATTERY CHARGING.
3. ELECTRICAL CONTRACTOR TO WIRE LIGHTING CIRCUIT THROUGH AREA LIGHTING CONTROL PANEL WHERE INDICATED.
4. EXTERIOR LIGHT FIXTURES TO BE WIRED WITH (2) #10, #10G IN (1) 3/4" C.
5. ELECTRICAL CONTRACTOR TO WIRE LIGHTING CIRCUIT THROUGH AREA LIGHTING CONTROL PANEL WHERE INDICATED.
6. ELECTRICAL CONTRACTOR SHALL WIRE ALL EXIT SIGNS, AND EMERGENCY BATTERY PACKS AHEAD OF THE LIGHTING CONTROL PANEL.
7. ELECTRICAL CONTRACTOR TO WIRE ALL EXIT SIGNAGE UN-SWITCHED TO THE LOCAL LIGHTING CIRCUIT IN THE ROOM WHERE MOUNTED.

KEYED NOTES:

- ① DENOTES EXISTING WALL PACK TO REMAIN.
- ② DENOTES NEW WALL PACK TO BE INSTALLED. ELECTRICAL CONTRACTOR TO INTERCEPT EXISTING CIRCUIT FEEDING WALL PACK AND PREPARE CONNECTION TO NEW WALL PACK TO BE INSTALLED. EXISTING CONTROL OF FIXTURES TO REMAIN. COORDINATE EXACT MOUNTING HEIGHT AND LOCATION WITH THE ARCHITECT PRIOR TO INSTALLING.
- ③ DENOTES NEW EXIT SIGN TO BE INSTALLED BY ELECTRICAL CONTRACTOR. WIRE TO NEAREST GENERAL LIGHTING CIRCUIT UN-SWITCHED.

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
 175 BURDETTE STREET
 SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HFB
 PROJECT ENGINEER: RM
 DRAWN BY: CH, RP, RB, RM

SHEET TITLE:
LIGHTING PLAN (COURTYARD)

SHEET NO. PROJ. NO. 2020-124

1E404

LIGHTING CONTROLLER "LCF"							
CIRCUIT #	RELAY/DIMMER	DESCRIPTION	SWITCH TYPE	TIMECLOCK ON	TIMECLOCK OFF	DIMMING	TYPE
LPF(11)	R1	LITG-LOBBY 829 (PENDANTS)	TIMECLOCK	YES	YES	NO	
LPF(3)	R2	LITG-CORRIDOR 834, CORRIDOR 830, CORRIDOR 836 & CORRIDOR 836A	OCCUPANCY SENSOR/TIMECLOCK	YES	YES	NO	
LPF(5)	R3	LITG-CORRIDOR 837	OCCUPANCY SENSOR/TIMECLOCK	YES	YES	NO	
LPF(7)	R4	LITG-EXTERIOR (NEW COURTYARD)	TIMECLOCK/PHOTOCELL	YES	YES	NO	
LPF(9)	R5	LITG-EXTERIOR (LOWER & UPPER COURTYARD)	TIMECLOCK/PHOTOCELL	YES	YES	NO	
DPE(1)	R6	LITG-MECHANICAL PLATFORM	LOW VOLTAGE SWITCH, LV2/TIMECLOCK & OCCUPANCY SENSOR	NO	YES	NO	
LPF(13)	R7	LITG-LOBBY 829 (SQUIGGLE)	TIMECLOCK	YES	YES	NO	
	R8	SPARE					

LOW VOLTAGE CONTROLLER
WATTSTOPPER CATALOG #LMCP8-10V-115/277-8HDR-277

LIGHTING CONTROL SEQUENCE:

LIGHTS IN CORRIDORS AND COMMON AREAS SHALL BE TURNED ON AT A PRESET TIME DETERMINED BY OWNER AND TURNED OFF AT A PRESET TIME DETERMINED BY OWNER. OCCUPANCY SENSOR TO SERVE AS AN OVERRIDE.

LIGHTING CONTROLLER "LCG"							
CIRCUIT #	RELAY/DIMMER	DESCRIPTION	SWITCH TYPE	TIMECLOCK ON	TIMECLOCK OFF	DIMMING	TYPE
LPG(3)	R1	LITG-CORRIDOR 830 & CORRIDOR 819	OCCUPANCY SENSOR/TIMECLOCK	YES	YES	NO	
LPG(5)	R2	LITG-INDEPENDENT WORK AREA 806	OCCUPANCY SENSOR/TIMECLOCK	YES	YES	NO	
LPG(7)	R3	LITG-EXTERIOR (PLAN NORTH)	TIMECLOCK/PHOTOCELL	YES	YES	NO	
LPG(9)	R4	LITG-EXTERIOR (PLAN LEFT)	TIMECLOCK/PHOTOCELL	YES	YES	NO	
LPG(11)	R5	LITG-EXTERIOR (NEW COURTYARD)	TIMECLOCK/PHOTOCELL	YES	YES	NO	
DPE(1)	R6	LITG-MECHANICAL PLATFORM	LOW VOLTAGE SWITCH, LV2/TIMECLOCK & OCCUPANCY SENSOR	NO	YES	NO	
	R7	SPARE					
	R8	SPARE					

LOW VOLTAGE CONTROLLER
WATTSTOPPER CATALOG #LMCP8-10V-115/277-8HDR-277

LIGHTING CONTROL SEQUENCE:

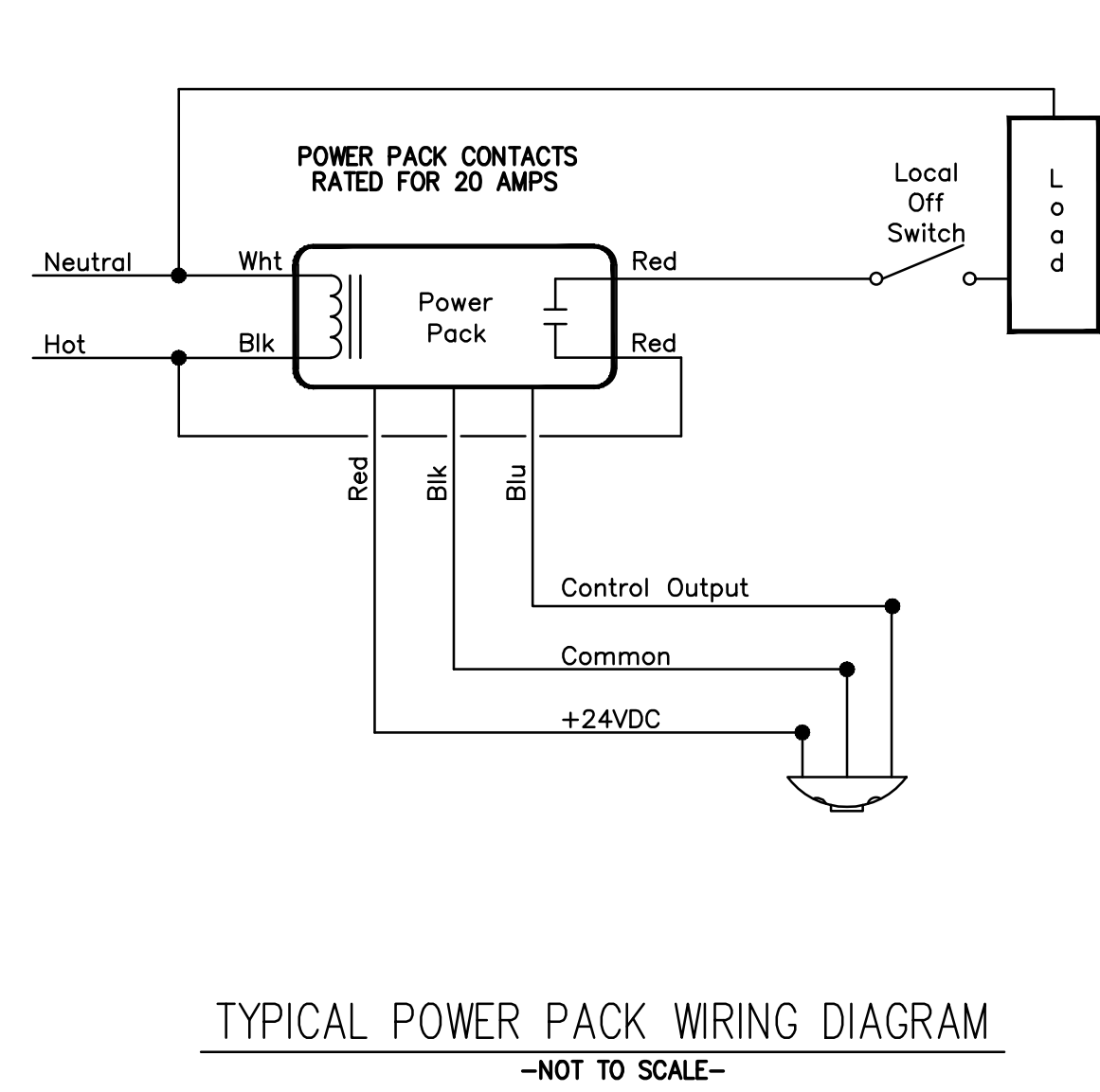
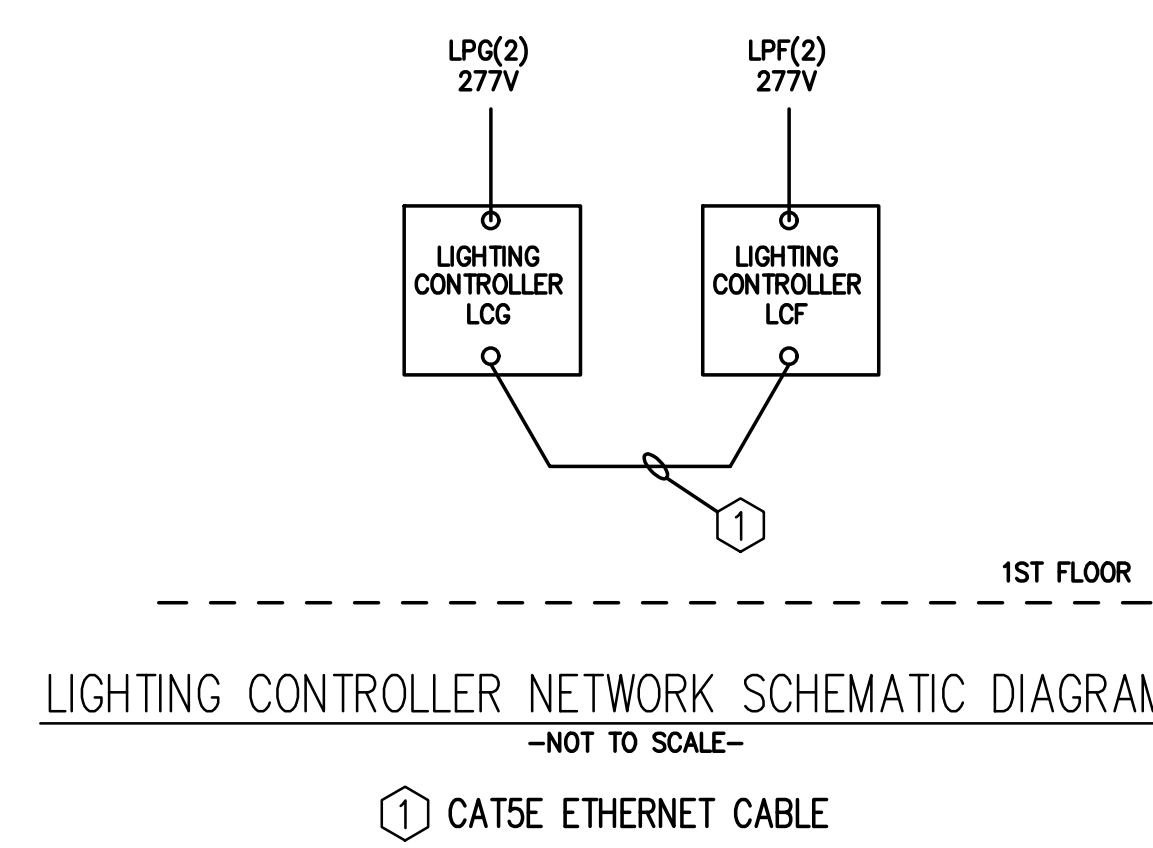
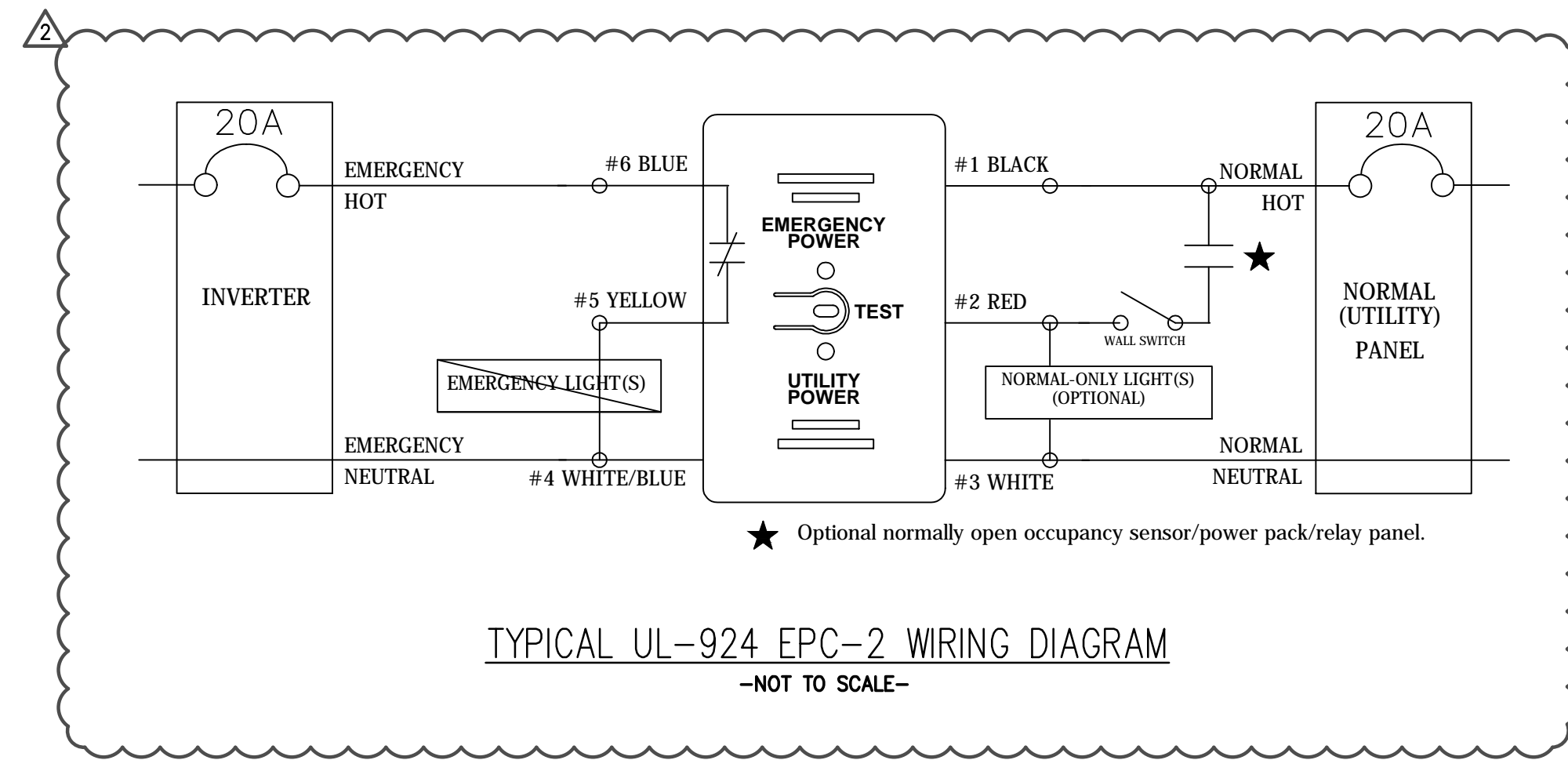
LIGHTS IN CORRIDORS AND COMMON AREAS SHALL BE TURNED ON AT A PRESET TIME DETERMINED BY OWNER AND TURNED OFF AT A PRESET TIME DETERMINED BY OWNER. OCCUPANCY SENSOR TO SERVE AS AN OVERRIDE.

SWITCH LEGEND

- (OS1) CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
- (OS2) CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
- (OS3) CEILING MOUNTED ULTRASONIC OCCUPANCY SENSOR WATTSTOPPER CATALOG #MUC-100-2
- (OS4) PENDANT MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #LMDC-100
- (OS5) CEILING MOUNTED DUAL-TECHNOLOGY OCCUPANCY SENSOR WATTSTOPPER CATALOG #DT-300
- (PP) POWER PACK WATTSTOPPER CATALOG #BZ50
- (S) LOCAL TOGGLE SWITCH S.P.S.T., 20 AMP, SPEC GRADE.
- (S3) LOCAL TOGGLE SWITCH, 3-WAY 20 AMP, SPEC GRADE.
- (S4) LOCAL TOGGLE SWITCH 4-WAY 20 AMP, SPEC GRADE.
- (EPC) UL-924 EMERGENCY POWER CONTROL EMERGI-LITE CATALOG #EPC-2
- (WS1) WALL MOUNTED OCCUPANCY SENSOR WATTSTOPPER CATALOG #DW-100-FINISH
- (WS2) WALL MOUNTED OCCUPANCY SENSOR WITH 0-10V DIMMING CATALOG #DW-311-FINISH
- (LW1) LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #MSW-105-FINISH
- (LV2) LOW VOLTAGE SWITCHING STATION WATTSTOPPER CATALOG #MSW-101-FINISH
- (LMRC1) 1-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-211
- (LMRC2) 2-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-212
- (LMRC3) 3-RELAY DIGITAL ROOM CONTROLLER WATTSTOPPER CATALOG #LMRC-213

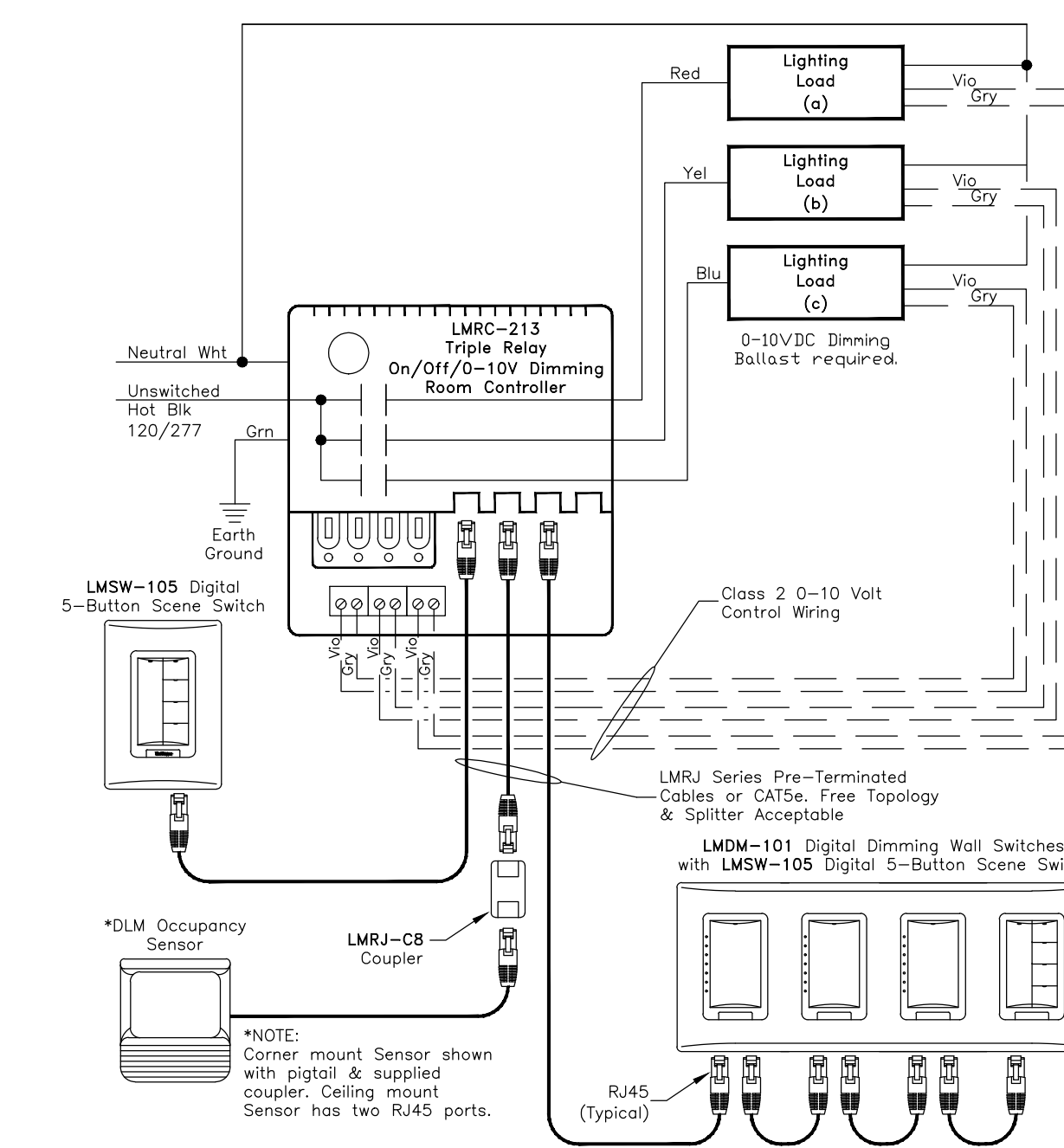
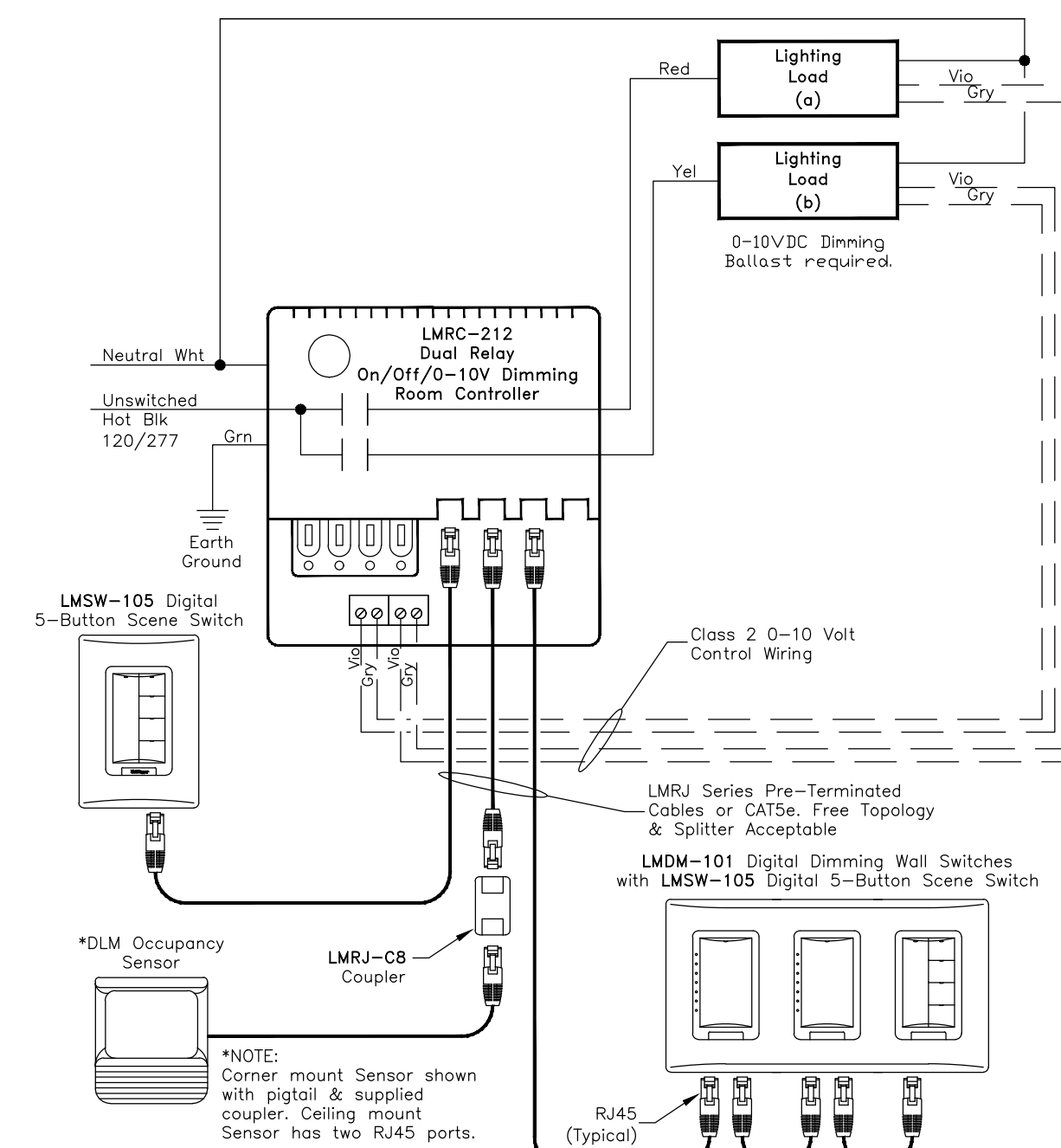
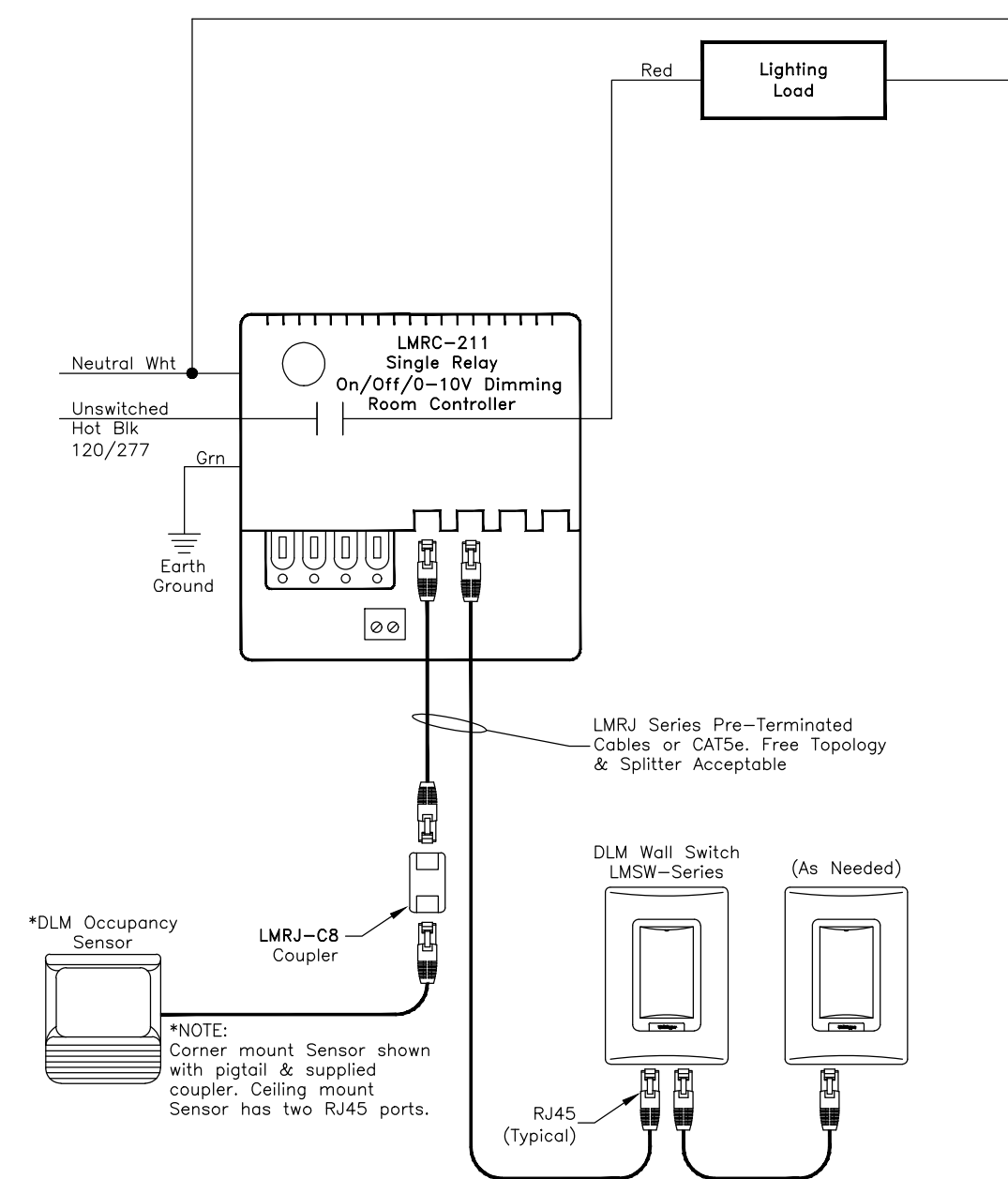
OCCUPANCY SENSOR NOTES

- ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
- ULTRASONIC CEILING MOUNTED SENSORS REQUIRE THAT THEY BE NO CLOSER THAN 6 FEET TO AIR SUPPLY/RETURN REGISTERS.
- ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT CONTROLLED.



NOTES:

- DO NOT ATTEMPT TO POWER MORE THAN 4 DEVICES, BE IT SENSORS OR SLAVE PACKS, FROM A SINGLE POWER PACK.
- LOW VOLTAGE WIRE TO BE 18AWG.



mcmillan pazdan smith ARCHITECTURE

CONSULTANT LOGO

MATRIX ENGINEERING INC.

912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.8274
Project Number: 2020-124

05.12.21

SPARTANBURG SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL

17E BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA, 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

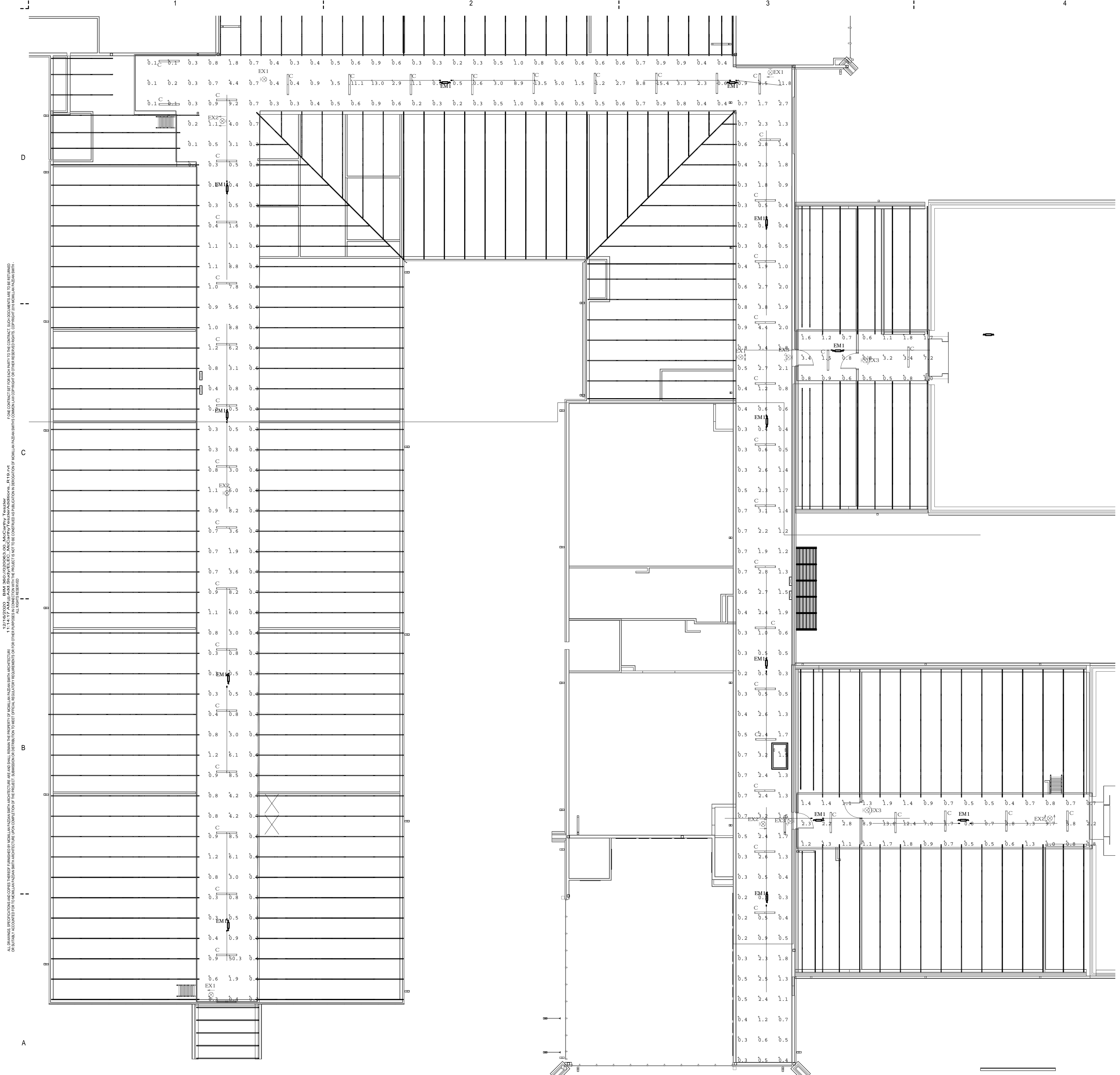
CONSTRUCTION DOCUMENTS 04/19/2021

PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: CHR.BP.RM

SHEET TITLE:
LIGHTING DETAILS

SHEET NO. PROJ. NO. 2020-124

1E405



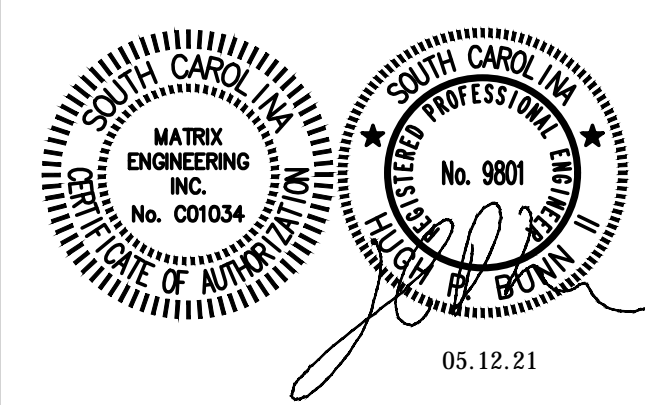
MECHANICAL PLATFORM EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
SCALE: 1/8"=1'-0"

Calculation Summary						
Label	CalcType	Units	Avg	Max	Min	Avg/Min Max/Min
MAIN CORRIDOR_Workplane	ILLUMINANCE	Fc	1.60	50.3	0.1	16.00 503.00
SHORT CORRIDOR_2_Workplane	ILLUMINANCE	Fc	2.35	13.6	0.4	5.88 34.00
SHORT CORRIDOR_Workplane	ILLUMINANCE	Fc	1.62	7.2	0.5	3.24 14.40

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CONSULTANT LOGO
MATRIX
 ENGINEERING, INC.
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.0274
 Project Number: 2020-124



SPARTANBURG SCHOOL DISTRICT 7
**ADDITIONS AND RENOVATIONS TO
 THE MCCARTHY TESZLER SCHOOL**
 17E BURGETTE STREET
 SPARTANBURG, SOUTH CAROLINA, 29307

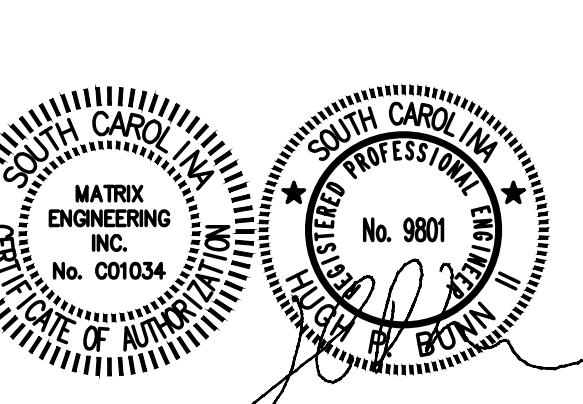
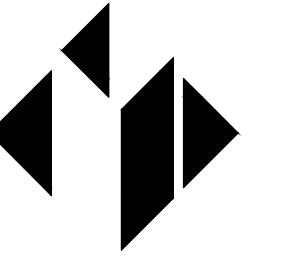
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HPB
 PROJECT ENGINEER: RM
 DRAWN BY: CH, RB, RP, RM

SHEET TITLE:
**MECHANICAL PLATFORM
 EMERGENCY LIGHTING
 PHOTOMETRIC
 CALCULATIONS**

SHEET NO. PROJ. NO.
 2020-124

1E406



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
176 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA, 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	PROJECT ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CHRB,RP,RM

SHEET TITLE:
AREA A EMERGENCY
LIGHTING PHOTOMETRIC
CALCULATIONS

SHEET NO. PROJ. NO.
2020-124

1E407

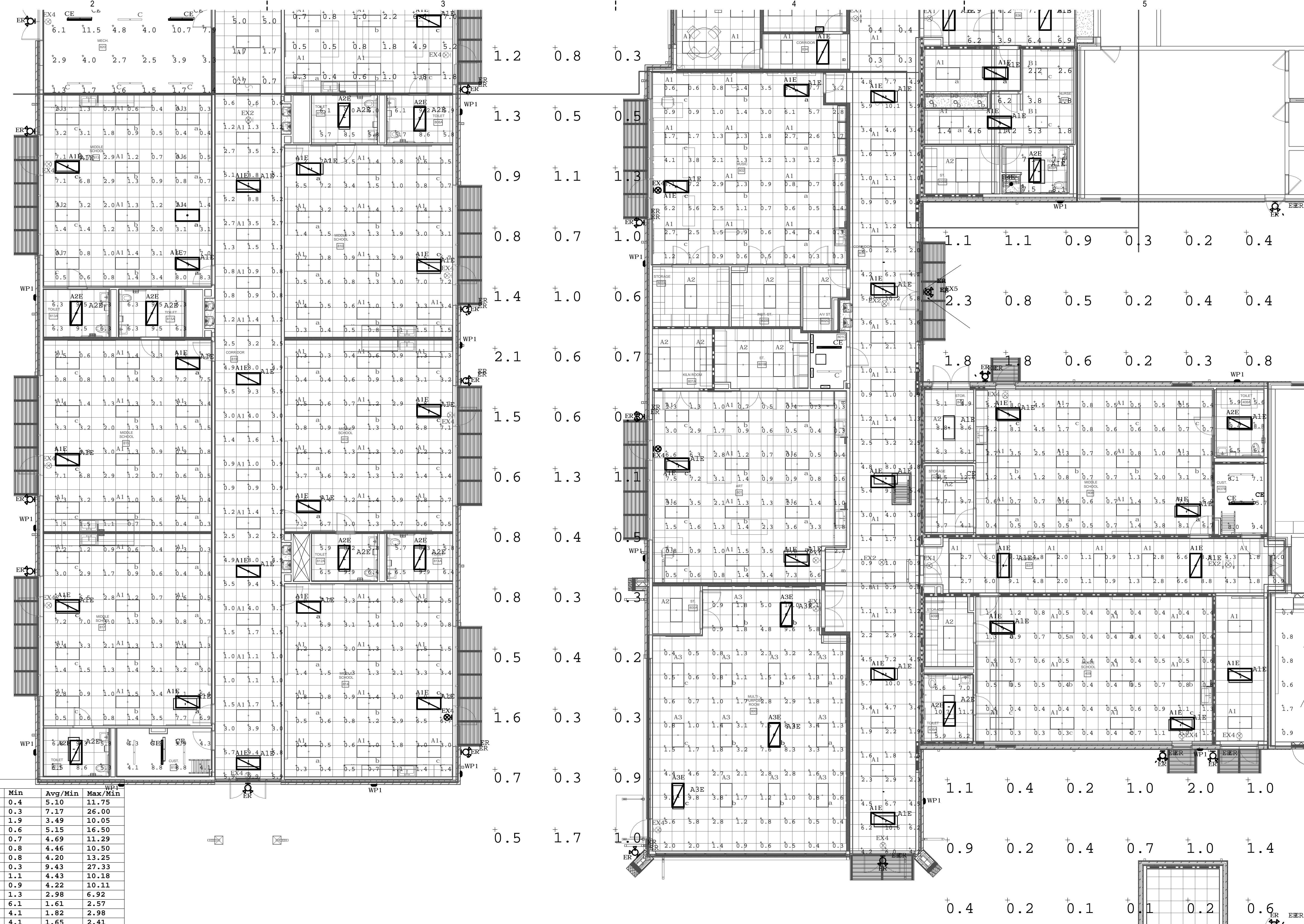


AREA A EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
SCALE: 1/8"=1'-0"

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
809A Workplane	Illuminance	Fc	2.04	4.7	0.4	5.10	11.75
ART 801 Workplane	Illuminance	Fc	2.15	7.8	0.3	7.17	26.00
BEDROOM 811C Workplane	Illuminance	Fc	6.63	19.1	1.9	3.49	10.05
CORRIDOR 819 CONT Workplane	Illuminance	Fc	3.09	9.9	0.6	5.15	16.50
CORRIDOR 819 Workplane	Illuminance	Fc	3.28	7.9	0.7	4.69	11.29
CORRIDOR 830 Workplane	Illuminance	Fc	3.57	8.4	0.8	4.46	10.50
CORRIDOR 834 CONT Workplane	Illuminance	Fc	3.36	10.6	0.8	4.20	13.25
CORRIDOR 834 Workplane	Illuminance	Fc	2.83	8.2	0.3	9.43	27.33
CORRIDOR 836 Workplane	Illuminance	Fc	4.87	11.2	1.1	4.43	10.18
CORRIDOR 837 Workplane	Illuminance	Fc	3.80	9.1	0.9	4.22	10.11
CORRIDOR 839 Workplane	Illuminance	Fc	3.88	9.0	1.3	2.98	6.92
CUST 837B Workplane	Illuminance	Fc	9.83	15.7	6.1	1.61	2.57
CUST Workplane	Illuminance	Fc	7.48	12.2	4.1	1.82	2.98
CUSTODIAN 818 Workplane	Illuminance	Fc	6.78	9.9	4.1	1.65	2.41
DINING 811A Workplane	Illuminance	Fc	7.98	19.0	2.4	3.16	7.92
FIRE RISER Workplane	Illuminance	Fc	10.35	12.6	8.1	1.28	1.56
FOOD PREP 809 Workplane	Illuminance	Fc	3.29	8.5	0.4	8.23	21.25
HIGHSCHOOL 803 Workplane	Illuminance	Fc	2.24	8.3	0.3	7.47	27.67
HORTICULTURE 804 Workplane	Illuminance	Fc	2.11	7.8	0.2	10.55	39.00
INDEPENDANT LIVING LAB Workplane	Illuminance	Fc	3.96	16.7	0.5	7.92	33.40
INDEPENDANT WORK AREA 806 Workplane	Illuminance	Fc	3.16	7.1	0.7	4.51	10.14
JOB COACH 807 Workplane	Illuminance	Fc	2.28	7.2	0.3	7.60	24.00
KITCHEN Workplane	Illuminance	Fc	7.12	17.2	2.7	2.64	6.37
LAUNDRY 823 Workplane	Illuminance	Fc	8.65	9.2	8.1	1.07	1.14
MAIN LOBBY Workplane	Illuminance	Fc	12.91	17.8	7.4	1.74	2.41
MECHANICAL 820 Workplane	Illuminance	Fc	4.50	11.6	1.3	3.46	8.92
MEM 827 Workplane	Illuminance	Fc	3.94	8.2	1.6	2.21	5.13
MEM 831B Workplane	Illuminance	Fc	7.93	8.2	7.6	1.04	1.08
MIDDLE SCHOOL 408 Workplane	Illuminance	Fc	2.03	8.1	0.4	5.08	20.25
MIDDLE SCHOOL 409 Workplane	Illuminance	Fc	0.61	1.7	0.3	2.03	5.67
MIDDLE SCHOOL 810 Workplane	Illuminance	Fc	2.28	7.7	0.3	7.60	25.67
MIDDLE SCHOOL 812 Workplane	Illuminance	Fc	2.27	7.8	0.3	7.57	26.00
MIDDLE SCHOOL 813 Workplane	Illuminance	Fc	2.26	8.3	0.3	7.53	27.67
MIDDLE SCHOOL 814 Workplane	Illuminance	Fc	2.29	7.9	0.3	7.63	26.33
MIDDLE SCHOOL 815 Workplane	Illuminance	Fc	2.31	7.9	0.3	7.70	26.33
MIDDLE SCHOOL 817 Workplane	Illuminance	Fc	2.24	7.7	0.3	7.47	25.67
MULTIPURPOSE ROOM Workplane	Illuminance	Fc	2.58	10.0	0.3	8.60	33.33
MUSIC 802 Workplane	Illuminance	Fc	2.08	8.3	0.3	6.93	27.67
OUTDOOR SPACE 1	Illuminance	Fc	0.84	2.1	0.2	4.20	10.50
OUTDOOR SPACE 2	Illuminance	Fc	0.50	2.3	0.0	N.A.	N.A.
OUTDOOR SPACE 3	Illuminance	Fc	0.44	2.0	0.1	4.40	20.00
SCHOOL ENTERPRISE 805 Workplane	Illuminance	Fc	2.14	7.3	0.3	7.13	24.33
STORAGE 408B Workplane	Illuminance	Fc	7.88	12.6	3.7	2.13	3.41
STORAGE 840 Workplane	Illuminance	Fc	6.63	8.8	4.9	1.35	1.80
TEMP CORRIDOR 1 Workplane	Illuminance	Fc	2.32	6.6	0.5	4.64	13.20
TEMP CORRIDOR 2 Workplane	Illuminance	Fc	4.23	21.8	0.4	10.58	54.50
TOILET 408A Workplane	Illuminance	Fc	7.07	9.4	5.6	1.26	1.68
TOILET 409A Workplane	Illuminance	Fc	8.02	11.7	5.9	1.36	1.98
TOILET 803A Workplane	Illuminance	Fc	6.87	9.3	5.5	1.25	1.69
TOILET 804A Workplane	Illuminance	Fc	5.42	7.5	2.6	2.08	2.88
TOILET 805A Workplane	Illuminance	Fc	6.78	9.1	5.5	1.23	1.65
TOILET 807B Workplane	Illuminance	Fc	7.10	7.2	7.0	1.01	1.03
TOILET 808A Workplane	Illuminance	Fc	6.88	9.2	5.7	1.21	1.61
TOILET 815A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51
TOILET 810A Workplane	Illuminance	Fc	6.85	9.0	5.7	1.20	1.58
TOILET 811D Workplane	Illuminance	Fc	10.85	18.7	4.4	2.47	4.25
TOILET 812A Workplane	Illuminance	Fc	7.12	9.9	5.8	1.23	1.71
TOILET 813A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51
TOILET 814A Workplane	Illuminance	Fc	7.10	9.9	5.7	1.25	1.74
TOILET 815A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51
TOILET 817A Workplane	Illuminance	Fc	7.05	9.3	5.3	1.33	1.75
TOILET 835A Workplane	Illuminance	Fc	7.55	8.0	7.1	1.06	1.13
WOMEN 828 Workplane	Illuminance	Fc	3.46	8.1	1.6	2.16	5.06
WOMEN 831A Workplane	Illuminance	Fc	7.85	8.1	7.6	1.03	1.07
WORK 831 Workplane	Illuminance	Fc	3.52	9.4	0.9	3.91	10.44
WORK SKILL 808 Workplane	Illuminance	Fc	2.33	8.1	0.3	7.77	27.00

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Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	WP1
809A Workplane	Illuminance	Fc	2.04	4.7	0.4	5.10	11.75	
ART 801 Workplane	Illuminance	Fc	2.15	7.8	0.3	7.17	26.00	
BEDROOM 811C Workplane	Illuminance	Fc	6.63	19.1	1.9	3.49	10.05	
CORRIDOR 819 CONT Workplane	Illuminance	Fc	3.09	9.9	0.6	5.15	16.50	
CORRIDOR 819 Workplane	Illuminance	Fc	3.28	7.9	0.7	4.69	11.29	
CORRIDOR 830 Workplane	Illuminance	Fc	3.57	8.4	0.8	4.46	10.50	
CORRIDOR 834 CONT Workplane	Illuminance	Fc	3.36	10.6	0.8	4.20	13.25	
CORRIDOR 834 Workplane	Illuminance	Fc	2.83	8.2	0.3	9.43	27.33	
CORRIDOR 836 Workplane	Illuminance	Fc	4.87	11.2	1.1	4.43	10.18	
CORRIDOR 837 Workplane	Illuminance	Fc	3.80	9.1	0.9	4.22	10.11	
CORRIDOR 839 Workplane	Illuminance	Fc	3.88	9.0	1.3	2.98	6.92	
CUST 837B Workplane	Illuminance	Fc	9.83	15.7	6.1	1.63	2.57	
CUST Workplane	Illuminance	Fc	7.48	12.2	4.1	1.82	2.98	
CUSTODIAN 818 Workplane	Illuminance	Fc	6.78	9.9	4.1	1.65	2.41	
DINING 811A Workplane	Illuminance	Fc	7.58	19.0	2.4	3.16	7.92	
FIRE RISER Workplane	Illuminance	Fc	10.35	12.6	8.1	1.28	1.56	
FOOD PREP 809 Workplane	Illuminance	Fc	3.29	8.5	0.4	8.23	21.25	
HIGHSCHOOL 803 Workplane	Illuminance	Fc	2.24	8.3	0.3	7.47	27.67	
HORTICULTURE 804 Workplane	Illuminance	Fc	2.11	7.8	0.2	10.55	39.00	
INDEPENDANT LIVING LAB Workplane	Illuminance	Fc	3.96	16.7	0.5	7.92	33.40	
INDEPENDANT WORK AREA 806 Workplane	Illuminance	Fc	3.16	7.1	0.7	4.51	10.14	
JOB COACH 807 Workplane	Illuminance	Fc	2.28	7.2	0.3	7.60	24.00	
KITCHEN Workplane	Illuminance	Fc	7.12	17.2	2.7	2.64	6.37	
LAUNDRY 823 Workplane	Illuminance	Fc	8.65	9.2	8.1	1.07	1.14	
MAIN LOBBY Workplane	Illuminance	Fc	12.91	17.8	7.4	1.74	2.41	
MECHANICAL 820 Workplane	Illuminance	Fc	4.50	11.6	1.3	3.46	8.92	
MEN 827 Workplane	Illuminance	Fc	3.54	8.2	1.6	2.21	5.13	
MEN 831B Workplane	Illuminance	Fc	7.93	8.2	7.6	1.04	1.08	
MIDDLE SCHOOL 408 Workplane	Illuminance	Fc	2.03	8.1	0.4	5.08	20.25	
MIDDLE SCHOOL 409 Workplane	Illuminance	Fc	0.61	1.7	0.3	2.03	5.67	
MIDDLE SCHOOL 810 Workplane	Illuminance	Fc	2.28	7.7	0.3	7.60	25.67	
MIDDLE SCHOOL 812 Workplane	Illuminance	Fc	2.27	7.8	0.3	7.57	26.00	
MIDDLE SCHOOL 813 Workplane	Illuminance	Fc	2.26	8.3	0.3	7.53	27.67	
MIDDLE SCHOOL 814 Workplane	Illuminance	Fc	2.29	7.9	0.3	7.63	26.33	
MIDDLE SCHOOL 815 Workplane	Illuminance	Fc	2.31	7.9	0.3	7.70	26.33	
MIDDLE SCHOOL 817 Workplane	Illuminance	Fc	2.24	7.7	0.3	7.47	25.67	
MULTIPURPOSE ROOM Workplane	Illuminance	Fc	2.58	10.0	0.3	8.60	33.33	
MUSIC 802 Workplane	Illuminance	Fc	2.08	8.3	0.3	6.93	27.67	
OUTDOOR SPACE 1	Illuminance	Fc	0.84	2.1	0.2	4.20	10.50	
OUTDOOR SPACE 2	Illuminance	Fc	0.50	2.3	0.0	N.A.	N.A.	
OUTDOOR SPACE 3	Illuminance	Fc	0.44	2.0	0.1	4.40	20.00	
SCHOOL ENTERPRISE 805 Workplane	Illuminance	Fc	2.14	7.3	0.3	7.13	24.33	
STORAGE 408B Workplane	Illuminance	Fc	7.88	12.6	3.7	2.13	3.41	
STORAGE 840 Workplane	Illuminance	Fc	6.63	8.8	4.9	1.35	1.80	
TEMP CORRIDOR 1 Workplane	Illuminance	Fc	2.32	6.6	0.5	4.64	13.20	
TEMP CORRIDOR 2 Workplane	Illuminance	Fc	4.23	21.8	0.4	10.58	54.50	
TOILET 408A Workplane	Illuminance	Fc	7.07	9.4	5.6	1.26	1.68	
TOILET 409A Workplane	Illuminance	Fc	8.02	11.7	5.9	1.36	1.98	
TOILET 803A Workplane	Illuminance	Fc	6.87	9.3	5.5	1.25	1.69	
TOILET 804A Workplane	Illuminance	Fc	5.42	7.5	2.6	2.08	2.88	
TOILET 805A Workplane	Illuminance	Fc	6.78	9.1	5.5	1.23	1.65	
TOILET 807B Workplane	Illuminance	Fc	7.10	7.2	7.0	1.01	1.03	
TOILET 808A Workplane	Illuminance	Fc	6.88	9.2	5.7	1.21	1.61	
TOILET 809C Workplane	Illuminance	Fc	7.93	8.0	7.8	1.02	1.03	
TOILET 810A Workplane	Illuminance	Fc	6.85	9.0	5.7	1.20	1.58	
TOILET 811D Workplane	Illuminance	Fc	10.85	18.7	4.4	2.47	4.25	
TOILET 812A Workplane	Illuminance	Fc	7.12	9.9	5.8	1.23	1.71	
TOILET 813A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51	
TOILET 814A Workplane	Illuminance	Fc	7.10	9.9	5.7	1.25	1.74	
TOILET 815A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51	
TOILET 817A Workplane	Illuminance	Fc	7.05	9.3	5.3	1.33	1.75	
TOILET 835A Workplane	Illuminance	Fc	7.55	8.0	7.1	1.06	1.13	
WOMEN 828 Workplane	Illuminance	Fc	3.46	8.1	1.6	2.16	5.06	
WOMEN 831A Workplane	Illuminance	Fc	7.85	8.1	7.6	1.03	1.07	
WORK 831 Workplane	Illuminance	Fc	3.52	9.4	0.9	3.91	10.44	
WORK SKILL 808 Workplane	Illuminance	Fc	2.33	8.1	0.3	7.77	27.00	



AREA A CONTINUED EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
SCALE: 1/8"=1'-0"

CONSULTANT LOGO

 912 South Pine Street

 Spartanburg, South Carolina, 29302

 864.583.0274

 Project Number: 2020-124

05.12.21

SPARTANBURG SCHOOL DISTRICT 7

 ADDITIONS AND RENOVATIONS TO

 THE MCCARTHY TESZLER SCHOOL

 17E BURDETTE STREET

 SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021

 PRINCIPAL IN CHARGE: HFB

 PROJECT ENGINEER: RM

 DRAWN BY: CHR.BB.RP.RM

SHEET TITLE:

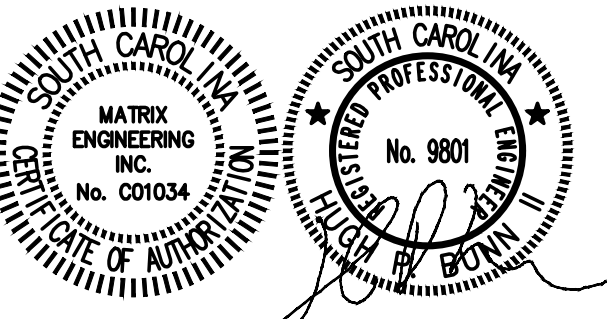
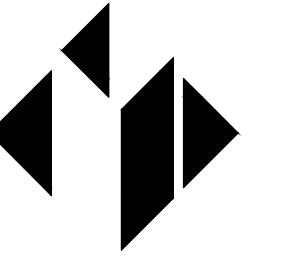
 AREA A CONTINUED

 EMERGENCY LIGHTING

 PHOTOMETRIC

 CALCULATIONS

SHEET NO. 1E408 PROJ. NO. 2020-124



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
176 BURGETTE STREET
SPARTANBURG, SOUTH CAROLINA, 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: CHR.BB.RP.RM

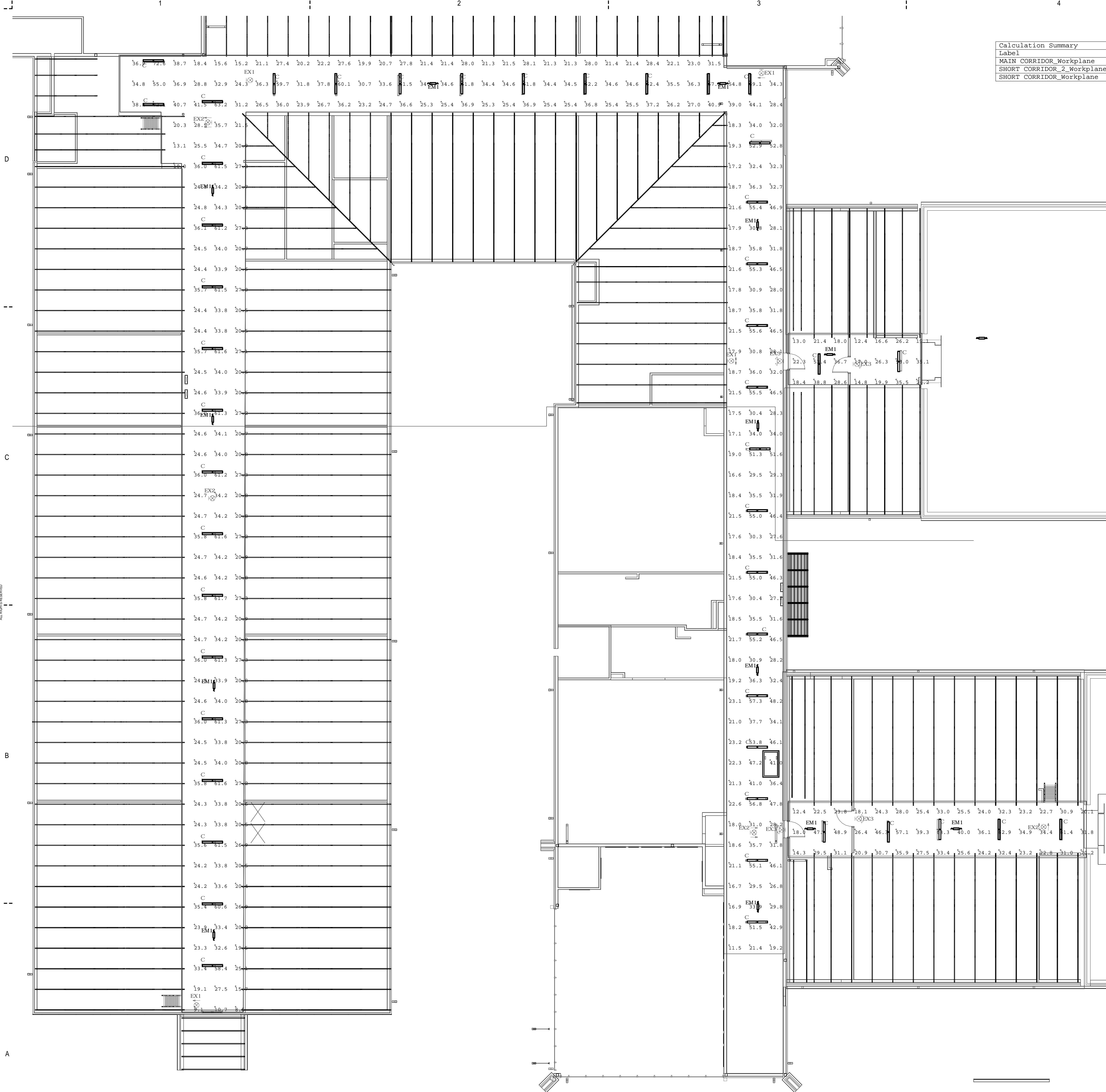
SHEET TITLE:
COURTYARD & TEMPORARY CONSTRUCTION EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS

SHEET NO. 1E409 PROJ. NO. 2020-124



COURTYARD & TEMPORARY CONSTRUCTION EMERGENCY LIGHTING PHOTOMETRIC CALCULATIONS
SCALE: 1/8"=1'-0"

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
809A Workplane	Illuminance	Fc	2.04	4.7	0.4	5.10	11.75
ART 801 Workplane	Illuminance	Fc	2.15	7.8	0.3	7.17	26.00
BEDROOM 811C Workplane	Illuminance	Fc	6.63	19.1	1.9	3.49	10.05
CORRIDOR 819 CONT Workplane	Illuminance	Fc	3.09	9.9	0.6	5.15	16.50
CORRIDOR 819 Workplane	Illuminance	Fc	3.28	7.9	0.7	4.69	11.29
CORRIDOR 830 Workplane	Illuminance	Fc	3.57	8.4	0.8	4.45	10.50
CORRIDOR 834 CONT Workplane	Illuminance	Fc	3.36	10.6	0.8	4.20	13.25
CORRIDOR 834 Workplane	Illuminance	Fc	2.83	8.2	0.3	9.43	27.33
CORRIDOR 836 Workplane	Illuminance	Fc	4.87	11.2	1.1	4.43	10.18
CORRIDOR 837 Workplane	Illuminance	Fc	3.80	9.1	0.9	4.22	10.11
CORRIDOR 839 Workplane	Illuminance	Fc	3.88	9.0	1.3	2.98	6.92
CUST 837B Workplane	Illuminance	Fc	9.83	15.7	6.1	1.61	2.57
CUST 837A Workplane	Illuminance	Fc	7.48	12.2	4.1	1.82	2.98
CUSTODIAN 818 Workplane	Illuminance	Fc	6.78	9.9	4.1	1.65	2.41
DINING 811A Workplane	Illuminance	Fc	7.58	19.0	2.4	3.16	7.92
FIRE RISER Workplane	Illuminance	Fc	10.35	12.6	8.1	1.28	1.56
FOOD PREP 809 Workplane	Illuminance	Fc	3.29	8.5	0.4	8.23	21.25
HIGH SCHOOL 803 Workplane	Illuminance	Fc	2.24	8.3	0.3	7.47	27.67
HORTICULTURE 804 Workplane	Illuminance	Fc	2.11	7.8	0.2	10.55	39.00
INDEPENDANT LIVING LAB Workplane	Illuminance	Fc	3.96	16.7	0.5	7.92	33.40
INDEPENDANT WORK AREA 806 Workplane	Illuminance	Fc	3.16	7.1	0.7	4.51	10.14
JOB COACH 807 Workplane	Illuminance	Fc	2.28	7.2	0.3	7.60	24.00
KITCHEN Workplane	Illuminance	Fc	7.12	17.2	2.7	2.64	6.37
LAUNDRY 823 Workplane	Illuminance	Fc	8.65	9.2	8.1	1.07	1.14
MAIN LOBBY Workplane	Illuminance	Fc	12.91	17.8	7.4	1.74	2.41
MECHANICAL 820 Workplane	Illuminance	Fc	4.50	11.6	1.3	3.46	8.92
MEN 827 Workplane	Illuminance	Fc	3.54	8.2	1.6	2.21	5.13
MEN 831B Workplane	Illuminance	Fc	7.93	8.2	7.6	1.04	1.08
MIDDLE SCHOOL 408 Workplane	Illuminance	Fc	2.03	8.1	0.4	5.08	20.25
MIDDLE SCHOOL 409 Workplane	Illuminance	Fc	0.61	1.7	0.3	2.03	5.67
MIDDLE SCHOOL 810 Workplane	Illuminance	Fc	2.28	7.7	0.3	7.60	25.67
MIDDLE SCHOOL 812 Workplane	Illuminance	Fc	2.27	7.8	0.3	7.57	26.00
MIDDLE SCHOOL 813 Workplane	Illuminance	Fc	2.26	8.3	0.3	7.53	27.67
MIDDLE SCHOOL 814 Workplane	Illuminance	Fc	2.29	7.9	0.3	7.63	26.33
MIDDLE SCHOOL 815 Workplane	Illuminance	Fc	2.31	7.9	0.3	7.70	26.33
MIDDLE SCHOOL 817 Workplane	Illuminance	Fc	2.24	7.7	0.3	7.47	25.67
MULTIPURPOSE ROOM Workplane	Illuminance	Fc	2.58	10.0	0.3	8.60	33.33
MUSIC 802 Workplane	Illuminance	Fc	2.08	8.3	0.3	6.93	27.67
OUTDOOR SPACE 1	Illuminance	Fc	0.84	2.1	0.2	4.20	10.50
OUTDOOR SPACE 2	Illuminance	Fc	0.50	2.3	0.0	N.A.	N.A.
OUTDOOR SPACE 3	Illuminance	Fc	0.44	2.0	0.1	4.40	20.00
SCHOOL ENTERPRISE 805 Workplane	Illuminance	Fc	2.14	7.3	0.3	7.13	24.33
STORAGE 408B Workplane	Illuminance	Fc	7.88	12.6	3.7	2.13	3.41
STORAGE 810 Workplane	Illuminance	Fc	6.53	8.8	4.9	1.35	1.80
TEMP CORRIDOR 1 Workplane	Illuminance	Fc	2.32	6.6	0.5	4.64	13.20
TEMP CORRIDOR 2 Workplane	Illuminance	Fc	4.23	21.8	0.4	10.58	54.50
TOILET 408A Workplane	Illuminance	Fc	7.07	9.4	5.6	1.26	1.68
TOILET 409A Workplane	Illuminance	Fc	8.02	11.7	5.9	1.36	1.98
TOILET 803A Workplane	Illuminance	Fc	6.87	9.3	5.5	1.25	1.69
TOILET 804A Workplane	Illuminance	Fc	5.42	7.5	2.6	2.08	2.88
TOILET 805A Workplane	Illuminance	Fc	6.78	9.1	5.5	1.23	1.65
TOILET 807B Workplane	Illuminance	Fc	7.10	7.2	7.0	1.01	1.03
TOILET 808A Workplane	Illuminance	Fc	6.88	9.2	5.7	1.21	1.61
TOILET 809C Workplane	Illuminance	Fc	7.93	8.0	7.8	1.02	1.03
TOILET 810A Workplane	Illuminance	Fc	6.85	9.0	5.7	1.20	1.58
TOILET 811D Workplane	Illuminance	Fc	10.85	18.7	4.4	2.47	4.25
TOILET 812A Workplane	Illuminance	Fc	7.12	9.9	5.8	1.23	1.71
TOILET 813A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51
TOILET 814A Workplane	Illuminance	Fc	7.10	9.9	5.7	1.25	1.74
TOILET 815A Workplane	Illuminance	Fc	7.37	9.5	6.3	1.17	1.51
TOILET 817A Workplane	Illuminance	Fc	7.05	9.3	5.3	1.33	1.75
TOILET 835A Workplane	Illuminance	Fc	7.55	8.0	7.1	1.06	1.13
WOMEN 828 Workplane	Illuminance	Fc	3.46	8.1	1.6	2.16	5.06
WOMEN 831A Workplane	Illuminance	Fc	7.85	8.1	7.6	1.03	1.07
WORK 831 Workplane	Illuminance	Fc	3.52	9.4	0.9	3.91	10.44
WORK SKILL 808 Workplane	Illuminance	Fc	2.33	8.1	0.3	7.77	27.00



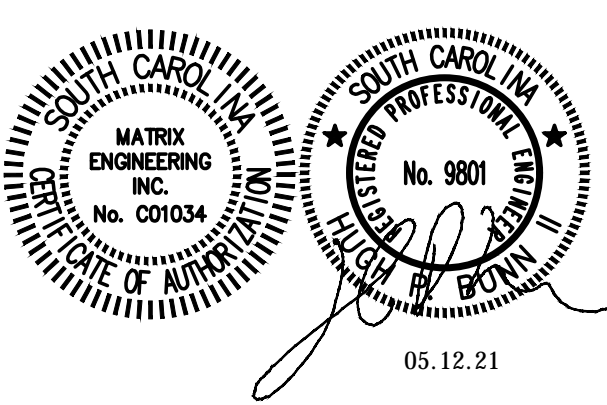
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
MAIN CORRIDOR_Workplane	Illuminance	Fc	32.04	72.6	8.5	3.77	8.54
SHORT CORRIDOR_2_Workplane	Illuminance	Fc	31.49	63.3	12.4	2.54	5.10
SHORT CORRIDOR_Workplane	Illuminance	Fc	26.46	58.0	12.4	2.13	4.68

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MECHANICAL PLATFORM NORMAL LIGHTING PHOTOMETRIC CALCULATIONS
SCALE: 1/8"=1'-0"



CONSULTANT LOGO
MATRIX
 ENGINEERING, INC.
 912 South Pine Street
 Spartanburg, South Carolina, 29302
 864.583.0274
 Project Number: 2020-124



SPARTANBURG SCHOOL DISTRICT 7
**ADDITIONS AND RENOVATIONS TO
 THE MCCARTHY TESZLER SCHOOL**
 175 BURBETTE STREET
 SPARTANBURG, SOUTH CAROLINA, 29307

SHEET ISSUE:

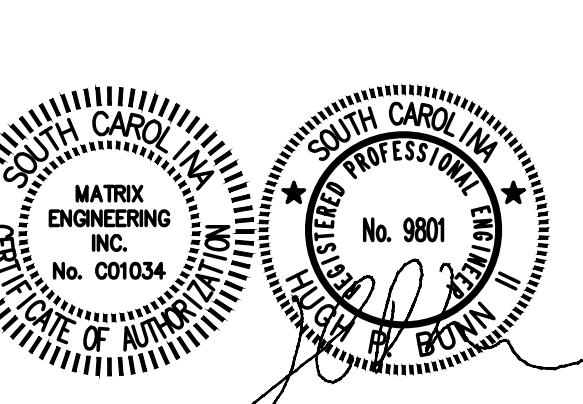
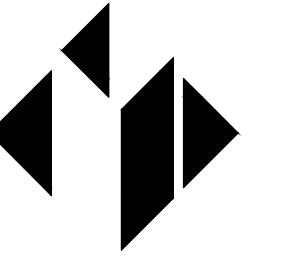
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HPB
 PROJECT ENGINEER: RM
 DRAWN BY: CH, RB, RP, RM

SHEET TITLE:
**MECHANICAL PLATFORM
 NORMAL PHOTOMETRIC
 CALCULATIONS**

SHEET NO. PROJ. NO.
 2020-124

1E410



AREA A NORMAL LIGHTING PHOTOMETRIC CALCULATIONS

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

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
809A Workplane	Illuminance	Fc	61.24	80.6	38.7	1.58	2.08
A-V STORAGE Workplane	Illuminance	Fc	38.13	54.0	25.2	1.51	2.14
ART 801 Workplane	Illuminance	Fc	52.12	68.3	23.0	2.27	2.97
BEDROOM 811C Workplane	Illuminance	Fc	26.89	31.5	20.6	1.31	1.53
CORRIDOR 819 CONT Workplane	Illuminance	Fc	42.97	59.3	12.5	3.44	4.74
CORRIDOR 819 Workplane	Illuminance	Fc	48.16	51.6	42.6	1.13	1.21
CORRIDOR 830 Workplane	Illuminance	Fc	46.69	54.0	34.3	1.36	1.57
CORRIDOR 834 CONT Workplane	Illuminance	Fc	43.19	60.4	18.6	2.32	3.25
CORRIDOR 834 Workplane	Illuminance	Fc	43.68	56.1	37.4	1.17	1.50
CORRIDOR 834 Workplane 1	Illuminance	Fc	51.01	63.6	34.8	1.47	1.83
CORRIDOR 836 Workplane	Illuminance	Fc	48.94	62.5	27.8	1.76	2.36
CORRIDOR 837 Workplane	Illuminance	Fc	50.39	56.2	25.1	2.01	2.24
CORRIDOR 839 Workplane	Illuminance	Fc	40.84	51.3	33.3	1.23	1.54
CUST 837B Workplane	Illuminance	Fc	13.55	15.2	12.3	1.10	1.24
CUST Workplane	Illuminance	Fc	49.51	77.2	32.7	1.51	2.36
CUSTODIAN 818 Workplane	Illuminance	Fc	65.28	80.5	47.1	1.39	1.71
DINING 811A Workplane	Illuminance	Fc	31.84	36.3	24.5	1.30	1.48
ELECTRICAL 803C Workplane	Illuminance	Fc	72.48	73.5	71.5	1.01	1.03
FIRE RISER Workplane	Illuminance	Fc	68.75	70.1	67.4	1.02	1.04
FOOD PREP 809 Workplane	Illuminance	Fc	60.99	80.9	21.8	2.80	3.71
HIGHSCHOOL 803 Workplane	Illuminance	Fc	70.44	80.2	58.7	1.20	1.37
HORTICULTURE 804 Workplane	Illuminance	Fc	51.64	65.9	30.9	1.67	2.13
INDEPENDANT LIVING LAB Workplane	Illuminance	Fc	27.61	34.2	18.1	1.53	1.89
INDEPENDANT WORK AREA 806 Workplane	Illuminance	Fc	38.15	43.7	28.6	1.33	1.53
INST ST 802B Workplane	Illuminance	Fc	29.71	58.1	17.7	1.68	3.28
JOB COACH 807 Workplane	Illuminance	Fc	66.14	81.4	42.4	1.56	1.92
KILN ROOM 801A Workplane	Illuminance	Fc	58.12	82.0	43.0	1.35	1.91
KITCHEN Workplane	Illuminance	Fc	21.93	37.7	13.1	1.67	2.73
LAUNDRY 823 Workplane	Illuminance	Fc	38.55	43.6	35.5	1.09	1.17
MAIN LOBBY Floor	Illuminance	Fc	29.52	38.4	19.1	1.55	2.01
MECHANICAL 820 Workplane	Illuminance	Fc	43.40	60.1	23.4	1.85	2.57
MEN 827 Workplane	Illuminance	Fc	39.57	66.6	24.8	1.60	2.69
MEN 831B Workplane	Illuminance	Fc	32.45	33.9	31.1	1.04	1.09
MIDDLE SCHOOL 408 Workplane	Illuminance	Fc	52.20	66.8	31.4	1.66	2.13
MIDDLE SCHOOL 409 Workplane	Illuminance	Fc	54.47	72.5	33.5	1.63	2.16
MIDDLE SCHOOL 810 Workplane	Illuminance	Fc	54.71	69.0	42.0	1.30	1.64
MIDDLE SCHOOL 812 Workplane	Illuminance	Fc	54.29	69.7	39.8	1.36	1.75
MIDDLE SCHOOL 813 Workplane	Illuminance	Fc	55.03	69.7	38.2	1.44	1.82
MIDDLE SCHOOL 814 Workplane	Illuminance	Fc	55.35	69.2	42.6	1.30	1.62
MIDDLE SCHOOL 815 Workplane	Illuminance	Fc	56.24	69.2	43.8	1.28	1.58
MIDDLE SCHOOL 817 Workplane	Illuminance	Fc	53.49	68.6	40.1	1.33	1.71
MULTIPURPOSE ROOM Workplane	Illuminance	Fc	67.23	88.8	28.1	2.39	3.16
MUSIC 802 Workplane	Illuminance	Fc	50.56	69.8	19.9	2.54	3.51
OFFICE 832 Workplane	Illuminance	Fc	61.59	73.1	49.6	1.24	1.47
OFFICE 833 Workplane	Illuminance	Fc	71.08	87.9	51.4	1.38	1.71
SCHOOL ENTERPRISE 805 Workplane	Illuminance	Fc	65.56	80.3	45.0	1.46	1.78
ST 801B Workplane	Illuminance	Fc	45.88	75.8	22.8	2.01	3.32
STORAGE 408B Workplane	Illuminance	Fc	27.77	38.3	21.1	1.32	1.82
STORAGE 802A Workplane	Illuminance	Fc	29.48	58.7	19.7	1.50	2.98
STORAGE 840 Workplane	Illuminance	Fc	27.42	37.7	19.3	1.42	1.95
TOILET 408A Workplane	Illuminance	Fc	28.50	37.8	22.8	1.25	1.66
TOILET 409A Workplane	Illuminance	Fc	38.17	54.2	25.2	1.51	2.15
TOILET 803A Workplane	Illuminance	Fc	36.23	52.2	25.9	1.40	2.02
TOILET 804A Workplane	Illuminance	Fc	42.25	50.8	36.8	1.15	1.38
TOILET 805A Workplane	Illuminance	Fc	35.80	51.6	26.3	1.36	1.96
TOILET 807B Workplane	Illuminance	Fc	34.35	34.9	33.8	1.02	1.03
TOILET 808A Workplane	Illuminance	Fc	32.45	43.5	26.7	1.22	1.63
TOILET 809C Workplane	Illuminance	Fc	37.58	40.8	34.4	1.09	1.19
TOILET 810A Workplane	Illuminance	Fc	32.03	44.8	25.6	1.25	1.75
TOILET 811D Workplane	Illuminance	Fc	22.43	25.0	19.3	1.16	1.30
TOILET 812A Workplane	Illuminance	Fc	33.53	46.6	27.4	1.22	1.70
TOILET 813A Workplane	Illuminance	Fc	34.92	45.1	29.8	1.17	1.51
TOILET 814A Workplane	Illuminance	Fc	33.55	47.0	27.0	1.24	1.74
TOILET 815A Workplane	Illuminance	Fc	34.93	45.1	29.8	1.17	1.51
TOILET 817A Workplane	Illuminance	Fc	33.62	44.0	28.2	1.19	1.56
TOILET 835A Workplane	Illuminance	Fc	31.33	33.9	28.9	1.08	1.17
WOMEN 828 Workplane	Illuminance	Fc	38.69	63.2	22.6	1.71	2.80
WOMEN 831A Workplane	Illuminance	Fc	31.95	33.1	30.8	1.04	1.07
WORK 831 Workplane	Illuminance	Fc	58.91	72.1	45.5	1.29	1.58
WORK SKILL 808 Workplane	Illuminance	Fc	55.69	64.3	47.0	1.18	1.37

SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

17E BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

SHEET ISSUE:

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	HPB
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: CHR.BP.RM

SHEET TITLE:
AREA A NORMAL LIGHTING
PHOTOMETRIC
CALCULATIONS

SHEET NO. PROJ. NO.
2020-124

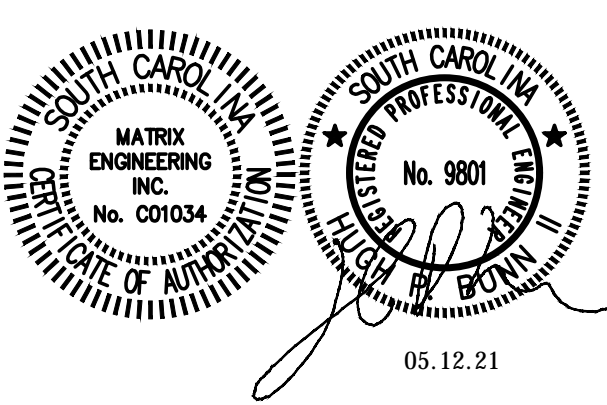
1E411

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AREA A CONTINUED NORMAL LIGHTING PHOTOMETRIC CALCULATIONS
SCALE: 1/8"=1'-0"

Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min	Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
809A Workplane	Illuminance	Fc	61.24	80.6	38.7	1.58	2.08	MIDDLE SCHOOL 812 Workplane	Illuminance	Fc	54.29	69.7	39.8	1.36	1.75
A-V STORAGE Workplane	Illuminance	Fc	38.13	54.0	25.2	1.51	2.14	MIDDLE SCHOOL 813 Workplane	Illuminance	Fc	55.03	69.7	38.2	1.44	1.82
ART 801 Workplane	Illuminance	Fc	52.12	68.3	23.0	2.27	2.97	MIDDLE SCHOOL 814 Workplane	Illuminance	Fc	55.35	69.2	42.6	1.30	1.62
BEDROOM 811C Workplane	Illuminance	Fc	26.89	31.5	20.6	1.31	1.53	MIDDLE SCHOOL 815 Workplane	Illuminance	Fc	56.24	69.2	43.8	1.28	1.58
CORRIDOR 819 CONT Workplane	Illuminance	Fc	42.97	59.3	12.5	3.44	4.74	MIDDLE SCHOOL 817 Workplane	Illuminance	Fc	53.49	68.6	40.1	1.33	1.71
CORRIDOR 819 Workplane	Illuminance	Fc	48.16	51.6	42.6	1.13	1.21	MULTIPURPOSE ROOM Workplane	Illuminance	Fc	67.23	88.8	28.1	2.39	3.16
CORRIDOR 830 Workplane	Illuminance	Fc	46.69	54.0	34.3	1.36	1.57	MUSIC 802 Workplane	Illuminance	Fc	50.56	69.8	19.9	2.54	3.51
CORRIDOR 834 CONT Workplane	Illuminance	Fc	43.19	60.4	18.6	2.32	3.25	OFFICE 832 Workplane	Illuminance	Fc	61.59	73.1	49.6	1.24	1.47
CORRIDOR 834 Workplane	Illuminance	Fc	43.68	56.1	37.4	1.17	1.50	OFFICE 833 Workplane	Illuminance	Fc	71.08	87.9	51.4	1.38	1.71
CORRIDOR 834 Workplane_1	Illuminance	Fc	51.01	63.6	34.8	1.47	1.83	SCHOOL ENTERPRISE 805 Workplane	Illuminance	Fc	65.56	80.3	45.0	1.46	1.78
CORRIDOR 836 Workplane	Illuminance	Fc	48.94	65.5	27.8	1.76	2.36	ST 801B Workplane	Illuminance	Fc	45.88	75.8	22.8	2.01	3.32
CORRIDOR 837 Workplane	Illuminance	Fc	50.39	56.2	25.1	2.01	2.24	STORAGE 408B Workplane	Illuminance	Fc	27.77	38.3	21.1	1.32	1.82
CORRIDOR 839 Workplane	Illuminance	Fc	40.84	51.3	33.3	1.23	1.54	STORAGE 802A Workplane	Illuminance	Fc	29.48	58.7	19.7	1.50	2.98
CUST 837B Workplane	Illuminance	Fc	13.55	15.2	12.3	1.10	1.24	STORAGE 840 Workplane	Illuminance	Fc	27.42	37.7	19.3	1.42	1.95
CUST Workplane	Illuminance	Fc	49.51	77.2	32.7	1.51	2.36	TOILET 408A Workplane	Illuminance	Fc	28.50	37.8	22.8	1.25	1.66
CUSTODIAN 818 Workplane	Illuminance	Fc	65.28	80.5	47.1	1.39	1.71	TOILET 409A Workplane	Illuminance	Fc	38.17	54.2	25.2	1.51	2.15
DINING 811A Workplane	Illuminance	Fc	31.84	36.3	24.5	1.30	1.48	TOILET 803A Workplane	Illuminance	Fc	36.23	52.2	25.9	1.40	2.02
ELECTRICAL 801C Workplane	Illuminance	Fc	72.48	73.5	71.5	1.01	1.03	TOILET 804A Workplane	Illuminance	Fc	42.25	50.8	36.8	1.15	1.38
FIRE RISER Workplane	Illuminance	Fc	68.75	70.1	67.4	1.02	1.04	TOILET 805A Workplane	Illuminance	Fc	68.75	70.1	67.4	1.02	1.04
FOOD PREP 809 Workplane	Illuminance	Fc	60.99	80.9	21.8	2.80	3.71	TOILET 807B Workplane	Illuminance	Fc	34.35	34.9	33.8	1.02	1.03
HIGHSCHOOL 803 Workplane	Illuminance	Fc	70.44	80.2	58.7	1.20	1.37	TOILET 808A Workplane	Illuminance	Fc	32.45	43.5	26.7	1.22	1.63
HORTICULTURE 804 Workplane	Illuminance	Fc	51.64	65.9	30.9	1.67	2.13	TOILET 809C Workplane	Illuminance	Fc	37.58	40.8	34.4	1.09	1.19
INDEPENDANT LIVING LAB Workplane	Illuminance	Fc	27.61	34.2	18.1	1.53	1.89	TOILET 810A Workplane	Illuminance	Fc	32.03	44.8	25.6	1.25	1.75
INDEPENDANT WORK AREA 806 Workplane	Illuminance	Fc	38.15	43.7	28.6	1.33	1.53	TOILET 811D Workplane	Illuminance	Fc	22.43	25.0	19.3	1.16	1.30
INSF ST 802B Workplane	Illuminance	Fc	29.71	58.1	17.7	1.68	3.28	TOILET 812A Workplane	Illuminance	Fc	33.53	46.6	27.4	1.22	1.70
JOB COACH 807 Workplane	Illuminance	Fc	66.14	81.4	42.4	1.56	1.92	TOILET 813A Workplane	Illuminance	Fc	34.92	45.1	29.8	1.17	1.51
KILN ROOM 801A Workplane	Illuminance	Fc	58.12	82.0	43.0	1.35	1.91	TOILET 814A Workplane	Illuminance	Fc	33.55	47.0	27.0	1.24	1.74
KITCHEN Workplane	Illuminance	Fc	21.93	35.7	13.1	1.67	2.73	TOILET 815A Workplane	Illuminance	Fc	34.93	45.1	29.8	1.17	1.51
LAUNDRY 823 Workplane	Illuminance	Fc	38.55	41.6	35.5	1.09	1.17	TOILET 817A Workplane	Illuminance	Fc	33.62	44.0	28.2	1.19	1.56
MAIN LOBBY Floor	Illuminance	Fc	29.52	38.4	19.1	1.55	2.01	TOILET 835A Workplane	Illuminance	Fc	31.33	33.9	28.9	1.08	1.17
MECHANICAL 820 Workplane	Illuminance	Fc	43.40	60.1	23.4	1.85	2.57	WOMEN 829 Workplane	Illuminance	Fc	38.69	63.2	22.6	1.71	2.80
MEN 827 Workplane	Illuminance	Fc	39.57	66.6	24.8	1.60	2.69	WOMEN 831A Workplane	Illuminance	Fc	31.95	33.1	30.8	1.04	1.07
MEN 831b Workplane	Illuminance	Fc	32.45	33.9	31.1	1.04	1.09	WORK 831b Workplane	Illuminance	Fc	58.91	72.1	45.5	1.29	1.58
MIDDLE SCHOOL 408 Workplane	Illuminance	Fc	52.20	66.8	31.4	1.66	2.13	WORK SKILL 808 Workplane	Illuminance	Fc	55.69	64.3	47.0	1.18	1.37
MIDDLE SCHOOL 409 Workplane	Illuminance	Fc	54.47	72.5	33.5	1.63	2.16								
MIDDLE SCHOOL 810 Workplane	Illuminance	Fc	54.71	69.0	42.0	1.30	1.64								



SPARTANBURG SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
17E BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

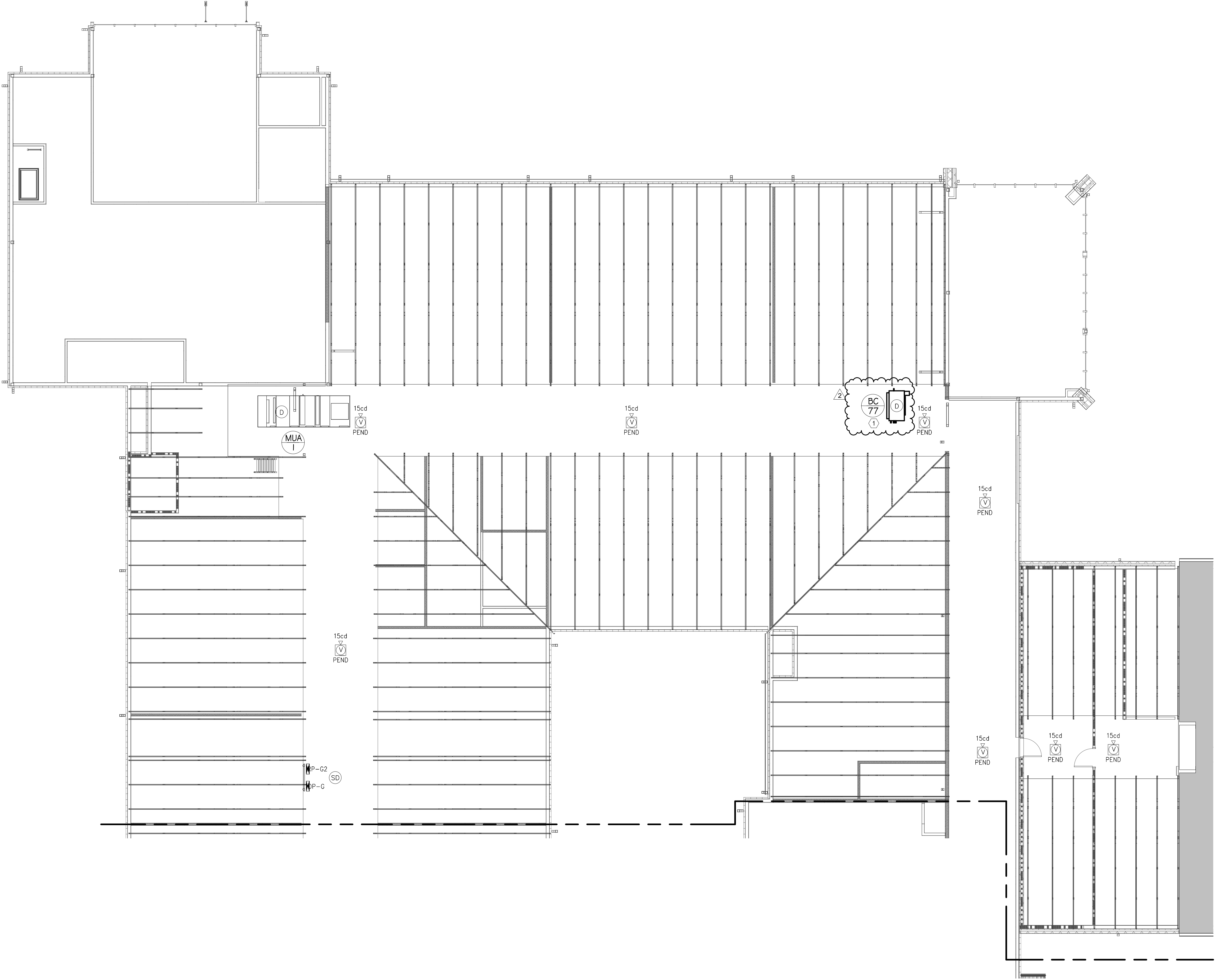
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	HPB
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: CHR.BB.RP.RM
SHEET TITLE:
AREA A CONTINUED NORMAL
LIGHTING PHOTOMETRIC
CALCULATIONS

SHEET NO. PROJ. NO.
2020-124

1E412

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1 MECHANICAL PLATFORM FIRE ALARM PLAN (AREA A)
1E500 1/8" = 1'-0"

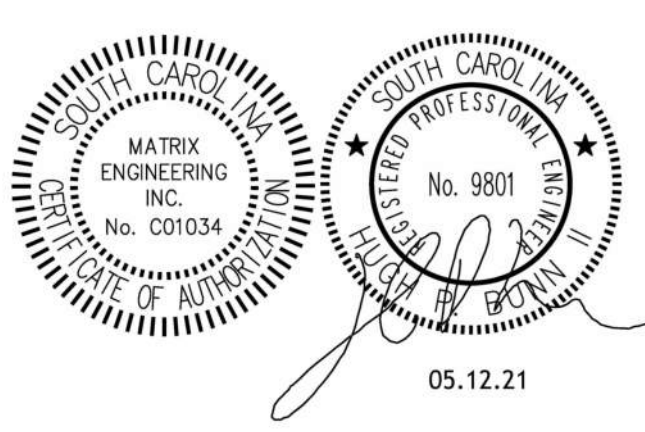
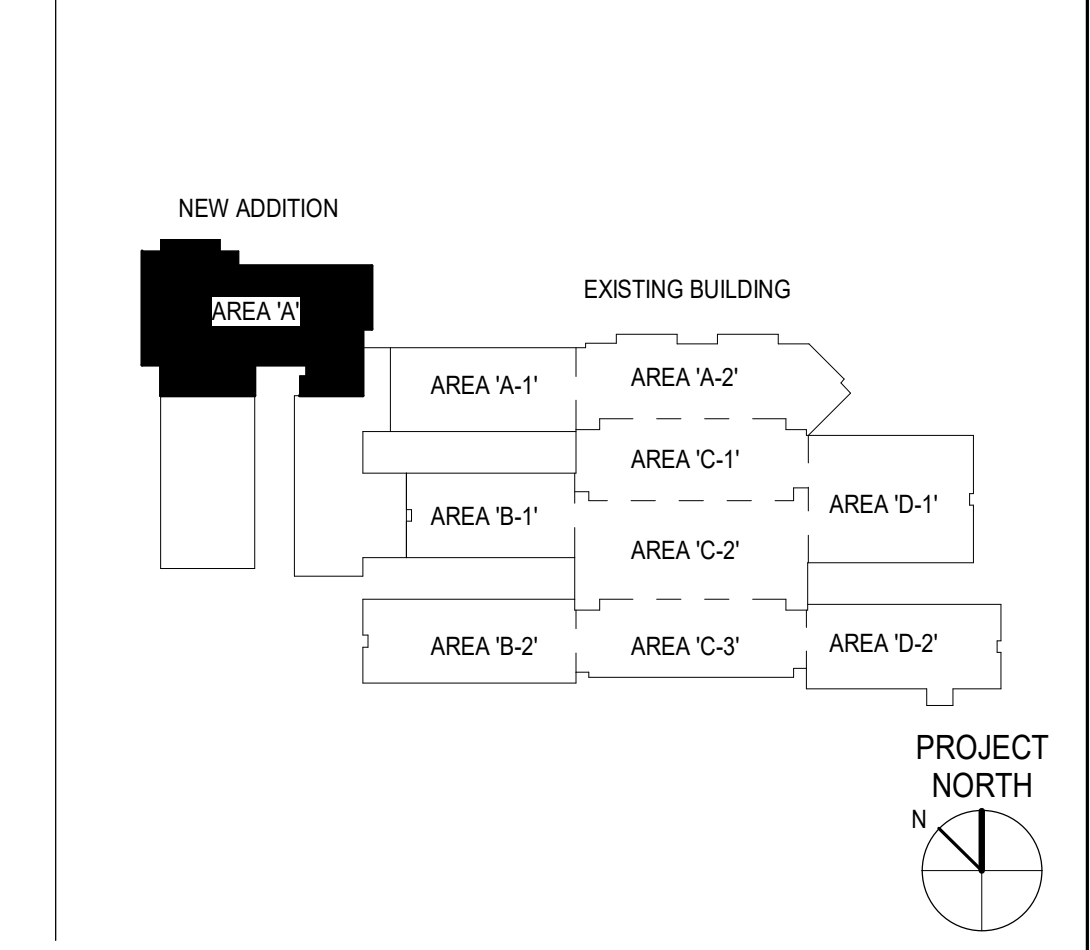
GENERAL NOTES:

1. THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND NAC PANELS.
3. ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
4. ALL STROBE LIGHTS TO BE SYNCHRONIZED.
5. STROBE OR HORN STROBE SHALL NOT BE MOUNTED MORE THAN 15 FEET FROM THE END OF CORRIDORS.
6. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CAULKED WITH A UL APPROVED FIRE CAULKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILIZED AT EACH PENETRATION.
7. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM COMPONENTS SHALL HAVE A LOCKING DEVICE RED IN COLOR.
8. INSTALL A LABEL INDICATING THE DATE OF MANUFACTURER FOR ALL FIRE ALARM PANEL BACK-UP BATTERIES.
9. FIRE ALARM CONTRACTOR TO COORDINATE INSTALLATION OF ALL FIRE ALARM DEVICES WITH LIGHT FIXTURES, MECHANICAL UNITS, PIPING AND ALL OTHER TRADES ON SITE.
10. FIRE ALARM AUDIO/VISUALS SHOULD BE VISIBLE AND NOT BLOCKED FROM VIEW BY OTHER COMPONENTS.
11. FIRE ALARM DEVICES SHALL BE PENDANT MOUNTED ON MECHANICAL PLATFORM WHERE NO WALLS ARE AVAILABLE FOR MOUNTING. MOUNTING HEIGHTS OF DEVICES SHALL BE CODE COMPLIANT.

KEYED NOTES:

- 1 SMOKE DOORS LOCATED OUTSIDE OF LOBBY 820 SHOWN ON SHEET 1E502 SHALL CLOSE UPON INITIATION OF DUCT DETECTOR LOCATED IN BC-77.

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

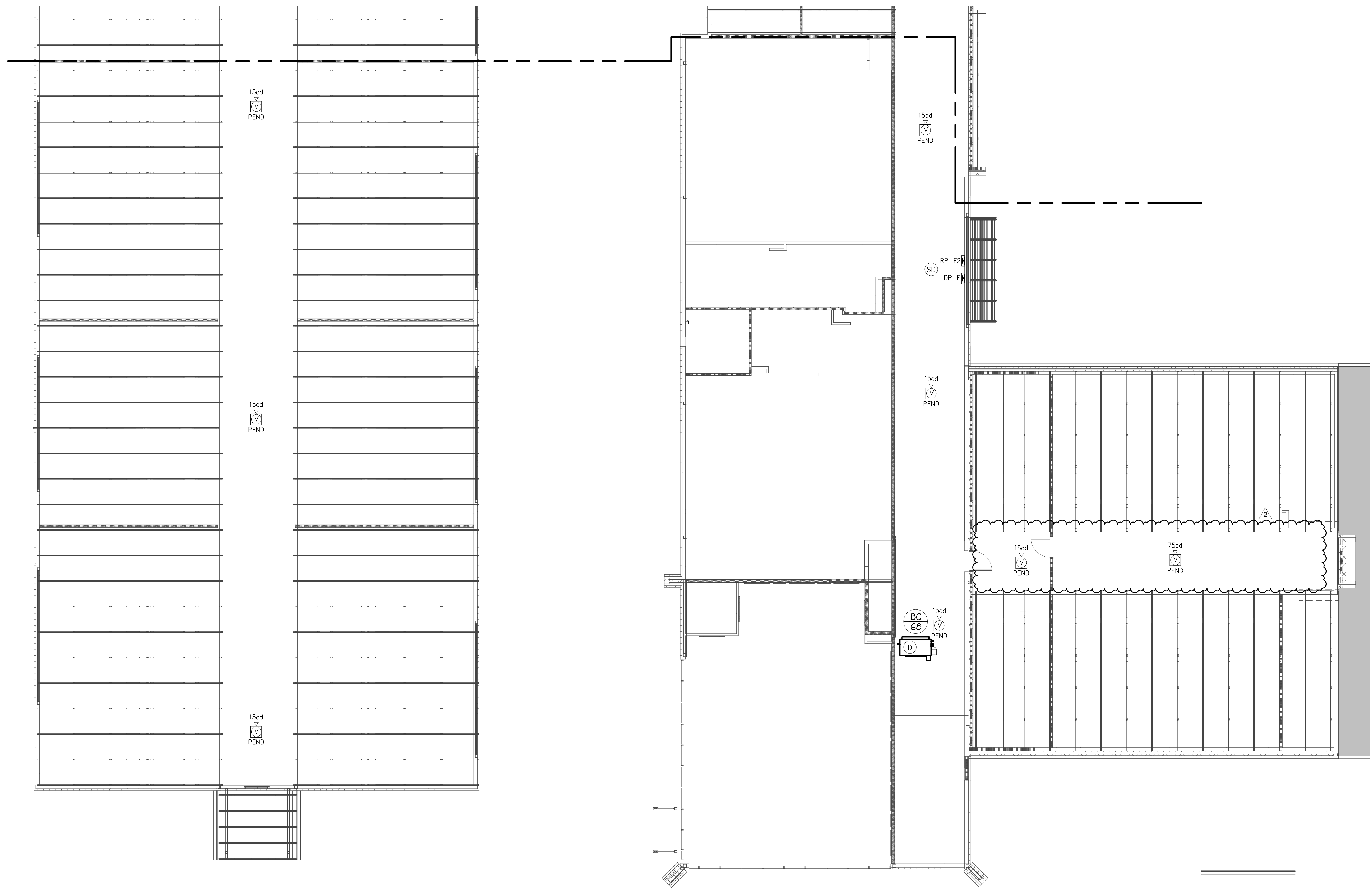
CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP, RB, RM

SHEET TITLE:
MECHANICAL PLATFORM
FIRE ALARM PLAN (AREA
A)

SHEET NO. PROJ. NO.
2020-124

1E500

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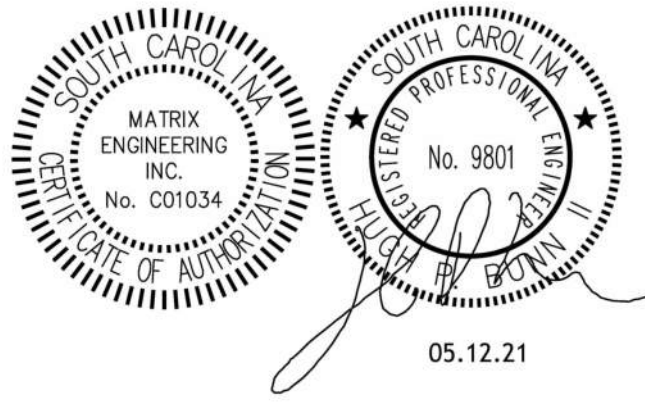
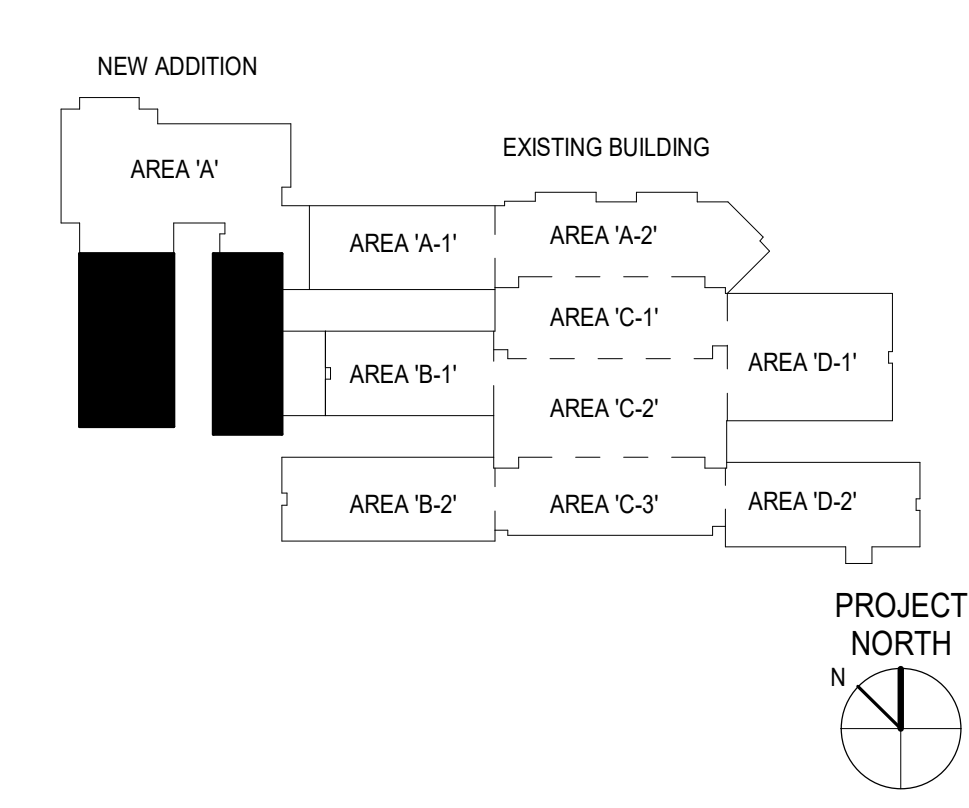
1 MECHANICAL PLATFORM FIRE ALARM PLAN (AREA A CONTINUED)
1E501 1/8" = 1'-0"

GENERAL NOTES:

1. THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND NAC PANELS.
3. ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
4. ALL STROBE LIGHTS TO BE SYNCHRONIZED.
5. STROBE OR HORN STROBE SHALL NOT BE MOUNTED MORE THAN 15 FEET FROM THE END OF CORRIDORS.
6. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CAULKED WITH A UL APPROVED FIRE CAULKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILIZED AT EACH PENETRATION.
7. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM COMPONENTS SHALL HAVE A LOCKING DEVICE RED IN COLOR.
8. INSTALL A LABEL INDICATING THE DATE OF MANUFACTURER FOR ALL FIRE ALARM PANEL BACK-UP BATTERIES.
9. FIRE ALARM CONTRACTOR TO COORDINATE INSTALLATION OF ALL FIRE ALARM DEVICES WITH LIGHT FIXTURES, MECHANICAL UNITS, PIPING AND ALL OTHER TRADES ON SITE.
10. FIRE ALARM AUDIO/VISUALS SHOULD BE VISIBLE AND NOT BLOCKED FROM VIEW BY OTHER COMPONENTS.
11. FIRE ALARM DEVICES SHALL BE PENDANT MOUNTED ON MECHANICAL PLATFORM WHERE NO WALLS ARE AVAILABLE FOR MOUNTING. MOUNTING HEIGHTS OF DEVICES SHALL BE CODE COMPLIANT.

KEYED NOTES:

KEY PLAN



SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

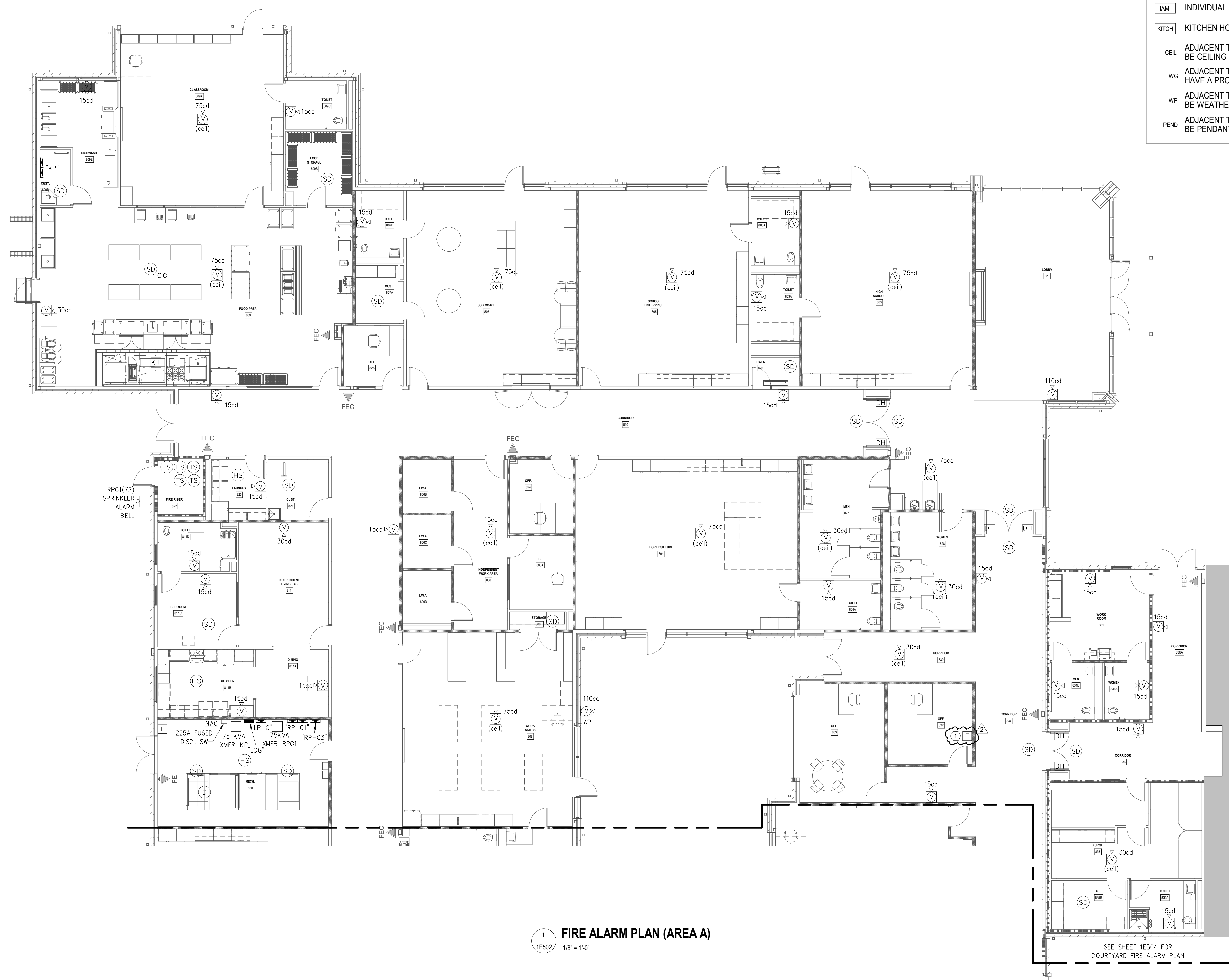
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
 PRINCIPAL IN CHARGE: HPB
 PROJECT ENGINEER: RM
 DRAWN BY: CH, RP, RB, RM

SHEET TITLE:
**MECHANICAL PLATFORM
 FIRE ALARM PLAN (AREA
 A CONTINUED)**

SHEET NO. PROJ. NO.
 1E501 2020-124

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1 FIRE ALARM PLAN (AREA A)
1E502 1/8" = 1'-0"

FIRE ALARM LEGEND	
SD	SMOKE DETECTOR
CO SD	SMOKE DETECTOR WITH CO2 BASE
D	DUCT DETECTOR, HVAC UNIT DESIGNATION BELOW.
HS	HEAT SENSOR
CO HS	HEAT SENSOR WITH CO2 BASE
CO	CARBON MONOXIDE DETECTOR
TS	TAMPER MONITOR
FS	FLOW SWITCH
S CEL	CEILING SPEAKER ONLY
V	FIRE ALARM SYSTEM VOICE/STROBE UNIT
S	FIRE ALARM SYSTEM STROBE UNIT
F	FIRE ALARM MANUAL PULL STATION
DH	DOOR HOLD OPEN DEVICE
R	ID NET RELAY
FACP	MAIN FIRE ALARM CONTROL PANEL
ANN	FIRE ALARM ANNUCIATOR PANEL, RECESSED
NAC	NOTIFICATION EXTENDER PANEL
IAM	INDIVIDUAL ADDRESSIBLE MODULE
KITCH	KITCHEN HOOD MONITOR
CEL	ADJACENT TO DEVICE DENOTES DEVICE TO BE CEILING MOUNTED
WG	ADJACENT TO DEVICE DENOTES DEVICE TO HAVE A PROTECTIVE WIRE GUARD
WP	ADJACENT TO DEVICE DENOTES DEVICE TO BE WEATHER PROOF
PEND	ADJACENT TO DEVICE DENOTES DEVICE TO BE PENDANT MOUNTED

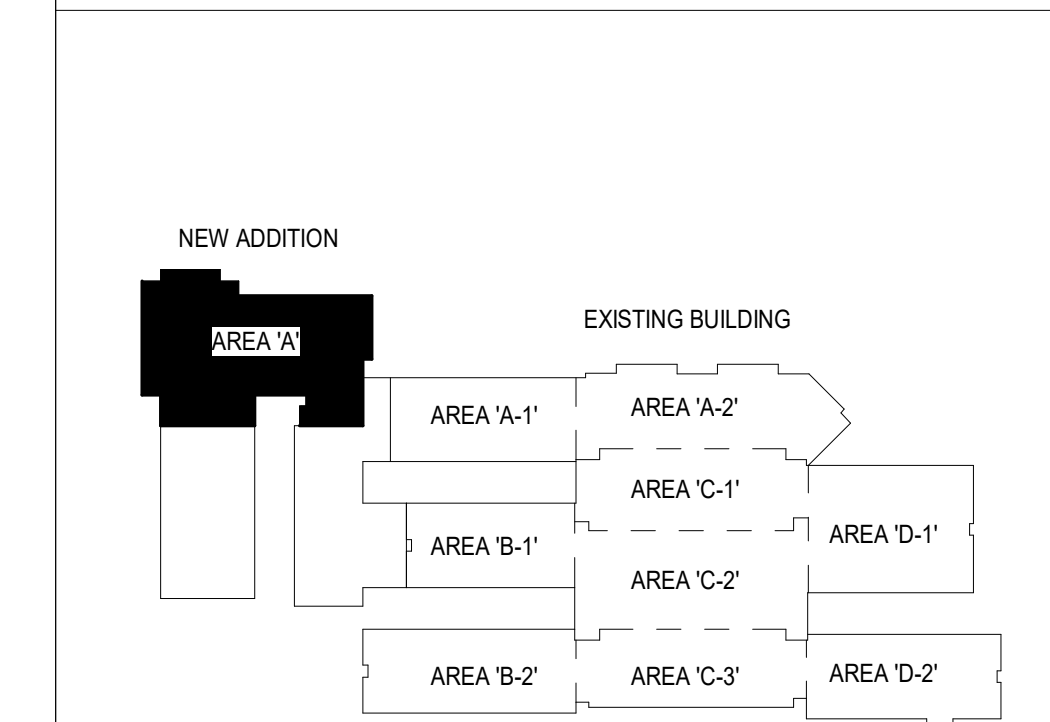
GENERAL NOTES:

1. THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE STATE AND LOCAL CODES.
2. MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND NAC PANELS.
3. ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
4. ALL STROBE LIGHTS TO BE SYNCHRONIZED.
5. STROBE OR HORN STROBE SHALL NOT BE MOUNTED MORE THAN 15 FEET FROM THE END OF CORRIDORS.
6. ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CALKED WITH A UL APPROVED FIRE CALKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILIZED AT EACH PENETRATION.
7. ALL CIRCUIT BREAKERS FEEDING FIRE ALARM COMPONENTS SHALL HAVE A LOCKING DEVICE RED IN COLOR.
8. INSTALL A LABEL INDICATING THE DATE OF MANUFACTURER FOR ALL FIRE ALARM PANEL BACK-UP BATTERIES.
9. FIRE ALARM CONTRACTOR TO COORDINATE INSTALLATION OF ALL FIRE ALARM DEVICES WITH LIGHT FIXTURES, MECHANICAL UNITS, PIPING AND ALL OTHER TRADES ON SITE.

KEYED NOTES:

- 1 DENOTES FIRE ALARM PULL STATION TO BE INSTALLED IN NORMALLY OCCUPIED AREA. COORDINATE EXACT MOUNTING LOCATION WITH OWNER AND AUTHORITY HAVING JURISDICTION.

KEY PLAN



mcmillan pazdan smith
ARCHITECTURE

CONSULTANT LOGO

MATRIX ENGINEERING, INC.
912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

SEALS

MATRIX ENGINEERING, INC. No. 9801
STATE OF SOUTH CAROLINA
REGISTERED PROFESSIONAL ENGINEER
05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7
ADDITIONS AND RENOVATIONS TO THE MCCARTHY TESZLER SCHOOL
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA 29307

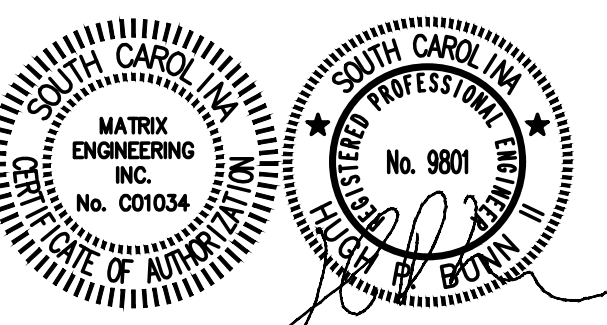
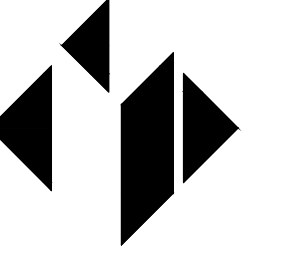
SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH, RP, RB, RM

SHEET TITLE:
FIRE ALARM PLAN (AREA A)

SHEET NO. PROJ. NO. 2020-124

1E502



NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HPB
PROJECT ENGINEER: RM
DRAWN BY: CH, RB, RP, RM

SHEET TITLE:
FIRE ALARM DETAILS

SHEET NO. PROJ. NO.
2020-124

1E505

SMOKE DETECTOR REQUIREMENTS FOR SMOKE DOOR RELEASE

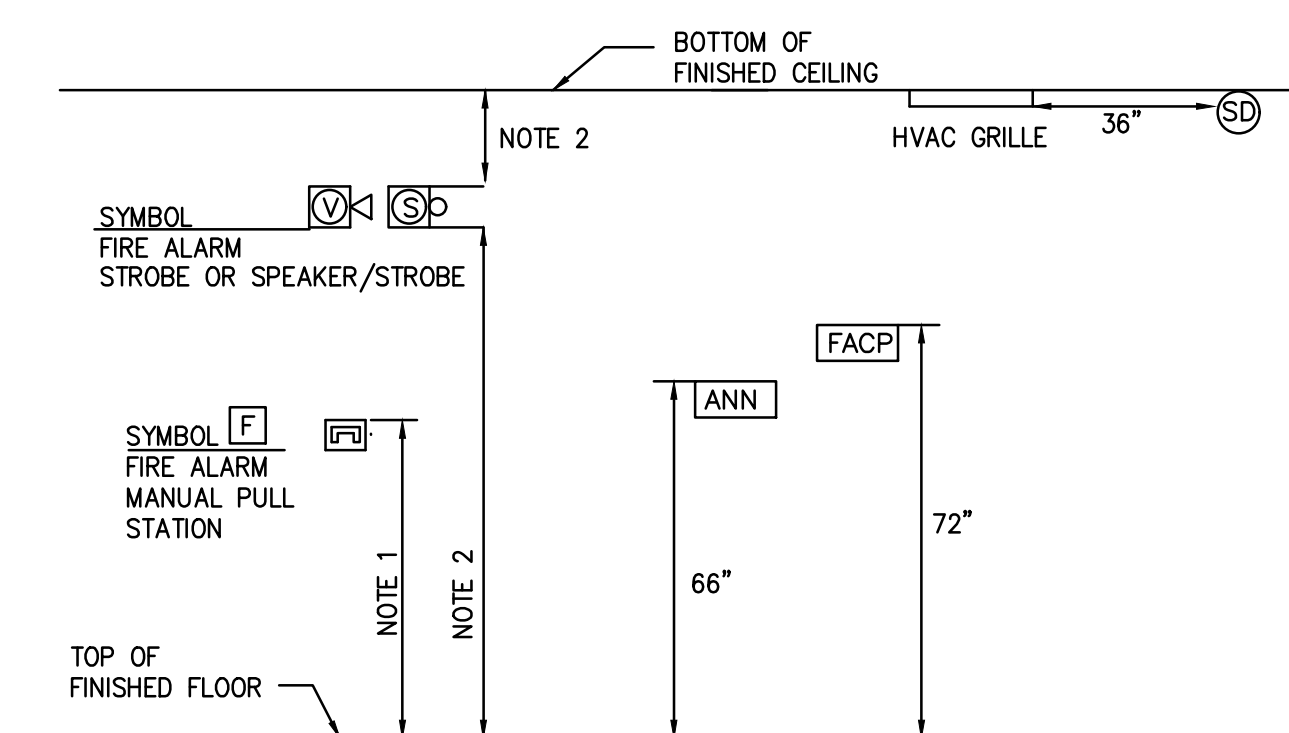
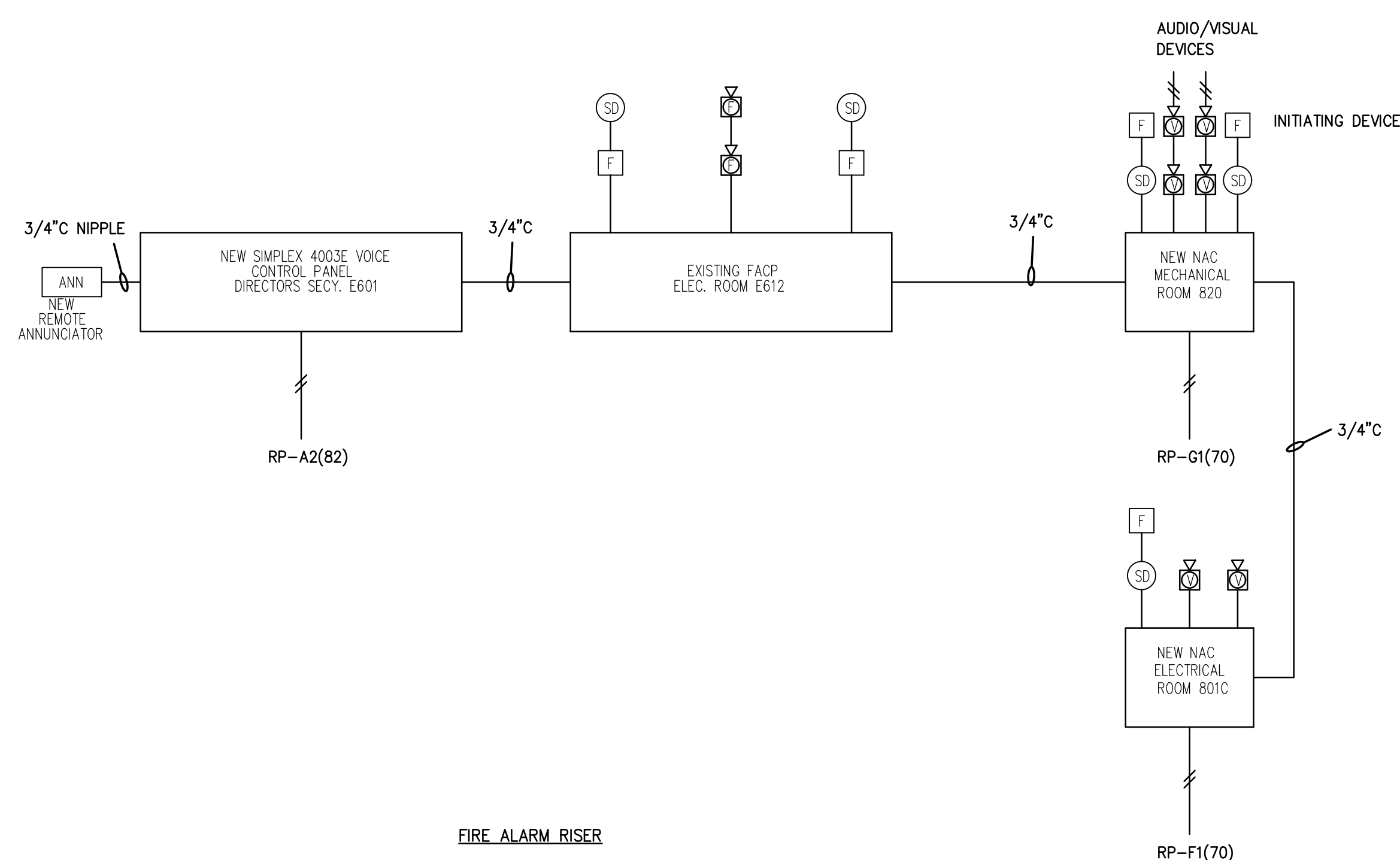
DEPTH "A" OF WALL SECTION ABOVE DOOR	CEILING MOUNTED SMOKE DETECTOR LOCATION	DISTANCE "B" AWAY FROM WALL SECTION ABOVE DOOR	GRAPHICAL REPRESENTATION
0"-24" ON BOTH SIDES	PROVIDE ONE ON EITHER SIDE MOUNT CENTERLINE OF SINGLE OR DOUBLE DOOR	MAXIMUM OF 5 FEET AND MINIMUM OF "A" BUT NOT LESS THAN 12"	
OVER 24" ON ONE SIDE	PROVIDE ONE ON EITHER SIDE MOUNT CENTERLINE OF SINGLE OR DOUBLE DOOR	MAXIMUM OF 5 FEET AND MINIMUM OF "C"	
OVER 24" ON BOTH SIDES	PROVIDE ONE ON EACH SIDE MOUNT CENTERLINE OF SINGLE OR DOUBLE DOOR	MAXIMUM OF 5 FEET AND MINIMUM OF "C"	

SMOKE DETECTOR REQUIREMENTS FOR SMOKE DOOR RELEASE SERVICE NOTES:

- WHERE DOOR RELEASE SERVICE DEVICES ARE INDICATED ON PLANS CEILING MOUNTED DETECTORS SHALL BE PROVIDED. QUANTITY AND LOCATION OF SMOKE DETECTORS SHALL BE AS DETERMINED BY THE "SMOKE DETECTORS REQUIREMENTS FOR DOOR RELEASE SERVICE" AND WITH ARCHITECTURAL WALL SECTIONS, COORDINATE WITH ARCHITECTURAL WALL SECTIONS, LIGHTS FIXTURES, MECHANICAL DUCT SUPPLY AND RETURNS, FIRE SUPPRESSION SYSTEMS, AND OTHER CEILING RELATED ITEMS.
- WHERE THERE ARE MULTIPLE DOORWAYS, ADDITIONAL CEILING MOUNTED SMOKE DETECTORS SHALL BE REQUIRED AS FOLLOWS:
 - WHERE THE SEPARATION BETWEEN DOORWAYS EXCEEDS 24 INCHES, EACH DOORWAY SHALL BE TREATED SEPARATELY.
 - WHERE THE SEPARATION BETWEEN DOORWAY IS 24 INCHES OR LESS, A SMOKE DETECTOR SHALL BE LOCATED ON THE CENTERLINE OF THE SEPARATION.
 - EACH GROUP OF THREE DOORWAY OPENINGS SHALL BE TREATED SEPARATELY.
 - EACH GROUP OF DOORWAY OPENINGS THAT EXCEED 20 FEET IN WIDTH SHALL BE TREATED SEPARATELY.
- UPON ACTUATION OF ONE DOOR HOLDER DEVICE AT A STAIRWELL, THE ASSOCIATED DOOR HOLDERS ON THE ABOVE AND BELOW FLOORS SHALL ALSO RELEASE THE DOORS OF THE SHARED STAIRWELL.

GENERAL NOTES:

- THIS PROJECT SHALL COMPLY WITH ALL APPLICABLE OFFICE OF SCHOOL FACILITIES AND LOCAL CODE REQUIREMENTS.
- THE NEW ADDITION IS EQUIPPED WITH A SPRINKLER FIRE PROTECTION SYSTEM.
- THE NEW ADDITION REQUIRES AN ADDRESSABLE VOICE ACTIVATED FIRE ALARM SYSTEM.
- MOUNT SMOKE DETECTOR WITHIN 5 FEET OF FACP AND REPEATER PANELS.
- ALL FIRE ALARM SYSTEM WIRING SHALL BE ROUTED IN TYPE EMT CONDUIT. CONDUIT SHALL BE PAINTED WITH A RED STRIPE AT 10 FOOT INTERVALS AND JUNCTION BOX COVERS SHALL BE PAINTED RED.
- QTY (1) FIRE ALARM PULL STATION SHALL BE MOUNTED ADJACENT TO THE NAC PANEL MECHANICAL ROOM 820 AND (1) PULL STATION MOUNTED IN LOBBY 829.
- ALL STROBE LIGHTS TO BE SYNCHRONIZED.
- STROBE OR SPEAKER STROBES SHALL NOT BE MOUNTED MORE THAN 15 FEET FROM THE END OF CORRIDORS.
- PROVIDE 3/4" EMT CONDUIT FROM MAIN FIRE ALARM CONTROL PANEL TO ALL REPEATER AND ANNUNCIATOR PANELS.
- FIRE ALARM CONTRACTOR TO COORDINATE MOUNTING OF DEVICES WITH LIGHT FIXTURES, AUDIO SPEAKERS, MECHANICAL VENTS, AND ALL OTHER CEILING MOUNTED EQUIPMENT.
- ALL PENETRATIONS THROUGH FIRE RATED WALLS SHALL BE LABELED AS FIRE WALLS AND SHALL BE CAULKED WITH A UL APPROVED FIRE CAULKING SYSTEM EQUAL TO OR GREATER THAN THE RATING OF THE FIRE WALL. A LABEL SHALL BE APPLIED INDICATING THE APPROVED UL TYPE SYSTEM UTILIZED AT EACH PENETRATION. COPIES OF THE FIRE STOP UL APPROVED TYPE SYSTEMS UTILIZED FOR THE PROJECT SHALL BE PROVIDED AT THE SITE DURING THE TIME OF THIRD PARTY OR OSP INSPECTIONS.
- ALL CIRCUIT BREAKERS FEEDING FIRE ALARM COMPONENTS SHALL HAVE A LOCKING DEVICE RED IN COLOR.
- INSTALL A LABEL INDICATING THE DATE OF MANUFACTURER FOR ALL FIRE ALARM PANEL BACK-UP BATTERIES.
- ALL CEILING MOUNTED DEVICES IN CLASSROOMS SHALL BE CENTERED IN THE ROOM WHERE AT ALL POSSIBLE TO OBTAIN REQUIRED CANDELA COVERAGE. IF CENTERING IN THE ROOMS IS NOT POSSIBLE THE CANDELA INDICATED MAY NEED TO BE INCREASED TO OBTAIN THE REQUIRED COVERAGE. FIRE ALARM CONTRACTOR SHALL VERIFY ALL CANDELA COVERAGE IN THE FIELD.
- FIRE ALARM CONTRACTOR TO COORDINATE LOCATION OF KNOX BOX WITH AUTHORITY HAVING JURISDICTION.
- ALL CEILING AND WALL MOUNTED DEVICES TO BE WHITE IN COLOR.
- FIRE ALARM CONTRACTOR TO COORDINATE WITH FIRE PROTECTION CONTRACTOR TO VERIFY ALL QUANTITIES & LOCATIONS OF ALL FIRE PROTECTION COMPONENTS REQUIRING MONITORING AND/OR TAMPER SWITCHES.
- ALL NEW FIRE ALARM AUDIO VISUAL DEVICES SHALL BE PLAIN WITH NO "FIRE" LABELING ON THE DEVICE HOUSING.
- DELETED



TYPICAL MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES
SCALE: NONE

- MOUNTING NOTES:
- MOUNT PULL STATION AT 4'-0" AFF TO TOP OF BOX.
 - MOUNT STROBE OR SPEAKER/STROBE COMBINATION AT LEAST 80" AFF AND NOT MORE THAN 96" AFF. MOUNT DEVICE AT LEAST 6" DOWN FROM CEILING.
 - MOUNTING HEIGHTS OF ELECTRICAL DEVICES TO MEET NFPA 72 AND ADA CODE REQUIREMENTS.

FIRE ALARM LEGEND

(SD)	SMOKE DETECTOR
(SD) ^{CO2}	SMOKE DETECTOR WITH CO2 BASE
(D)	DUCT DETECTOR. HVAC UNIT DESIGNATION BELOW.
(HS)	HEAT SENSOR
(HS) ^{CO2}	HEAT SENSOR WITH CO2 BASE
(CD)	CARBON MONOXIDE DETECTOR
(TS)	TAMPER MONITOR
(FS)	FLOW SWITCH
(CEL)	CEILING SPEAKER ONLY
(V)	FIRE ALARM SYSTEM VOICE/STROBE UNIT
(S)	FIRE ALARM SYSTEM STROBE UNIT
(F)	FIRE ALARM MANUAL PULL STATION
(DH)	DOOR HOLD OPEN DEVICE
(IR)	ID NET RELAY
(FACP)	MAIN FIRE ALARM CONTROL PANEL
(ANN)	FIRE ALARM ANNUNCIATOR PANEL, RECESSED
(NAC)	NOTIFICATION EXTENDER PANEL
(IAM)	INDIVIDUAL ADDRESSIBLE MODULE
(KITCH)	KITCHEN HOOD MONITOR
CEL	ADJACENT TO DEVICE DENOTES DEVICE TO BE CEILING MOUNTED
WC	ADJACENT TO DEVICE DENOTES DEVICE TO HAVE A PROTECTIVE WIRE GUARD
WP	ADJACENT TO DEVICE DENOTES DEVICE TO BE WEATHERPROOF

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GENERAL NOTES:

1. ELECTRICAL CONTRACTOR TO WIRE ALL EMERGENCY FIXTURES AND EXIT SIGNS UN-SWITCHED TO LIGHTING CIRCUIT IN ROOM.
2. "ex" ADJACENT TO DEVICE DENOTES EXISTING TO REMAIN.

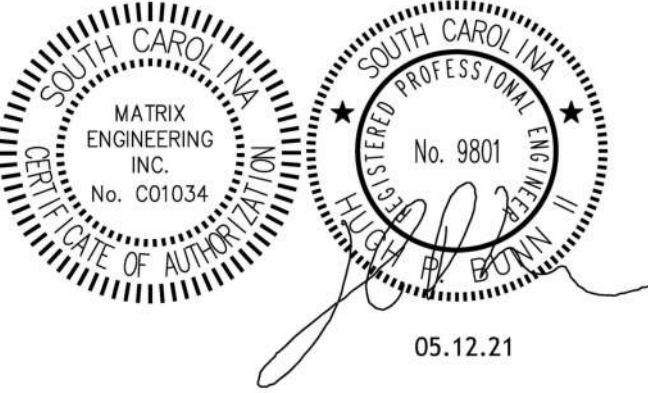


CONSULTANT LOGO



912 South Pine Street
Spartanburg, South Carolina, 29302
864.583.6274
Project Number: 2020-124

SEALS



05.12.21

SPARTANBURG COUNTY SCHOOL DISTRICT 7

ADDITIONS AND RENOVATIONS TO
THE MCCARTHY TESZLER SCHOOL

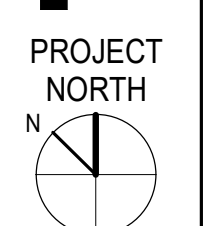
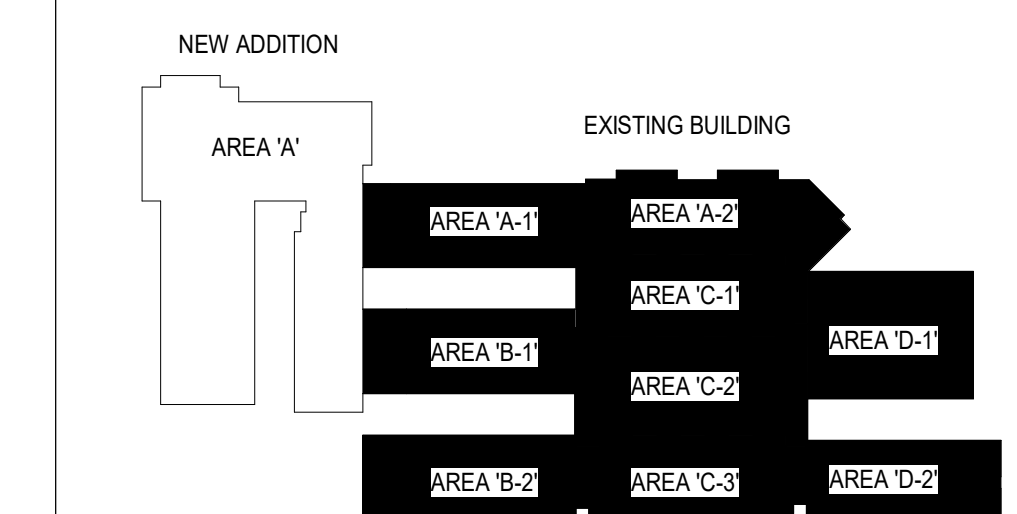
175 BURDETTE STREET
SPARTANBURG, SOUTH CAROLINA, 29307

KEYED NOTES:

1. DENOTES NEW EXIT SIGN/EXIT DISCHARGE LIGHT COMBO TO BE INSTALLED. WIRE UNSWITCHED TO EXISTING LIGHTING CIRCUIT IN ROOM.
2. DENOTES EXISTING EXIT SIGN TO REMAIN.
3. DENOTES EXISTING FIXTURE TO BE REPLACED WITH NEW BATTERY BACKUP RECESSED DOWNLIGHT. ELECTRICAL CONTRACTOR TO WIRE TO EXISTING CIRCUIT.
4. DENOTES NEW EMERGENCY DUAL HEAD TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. WIRE NEW FIXTURE TO EXISTING LOCAL LIGHTING CIRCUIT.
5. DENOTES NEW EMERGENCY FIXTURE WITH BATTERY BACKUP TO BE PURCHASED AND INSTALLED BY ELECTRICAL CONTRACTOR. WIRE NEW FIXTURE TO EXISTING LOCAL LIGHTING CIRCUIT.
6. DENOTES EXISTING EMERGENCY DUAL HEAD FIXTURE. SEE SHEET 2E400 FOR DETAILS.
7. DENOTES NEW EXIT SIGN TO BE INSTALLED. WIRE UNSWITCHED TO EXISTING AREA LIGHTING CIRCUIT.
8. SEE SHEET 3E300 FOR LOCATION OF NEW EMERGENCY DUAL HEAD.

SHEET ISSUE:			
NO.	DATE	DESCRIPTION	BY
1	04.29.2021	ADDENDUM NO. 1	RM
2	05.12.2021	ADDENDUM NO. 2	RM

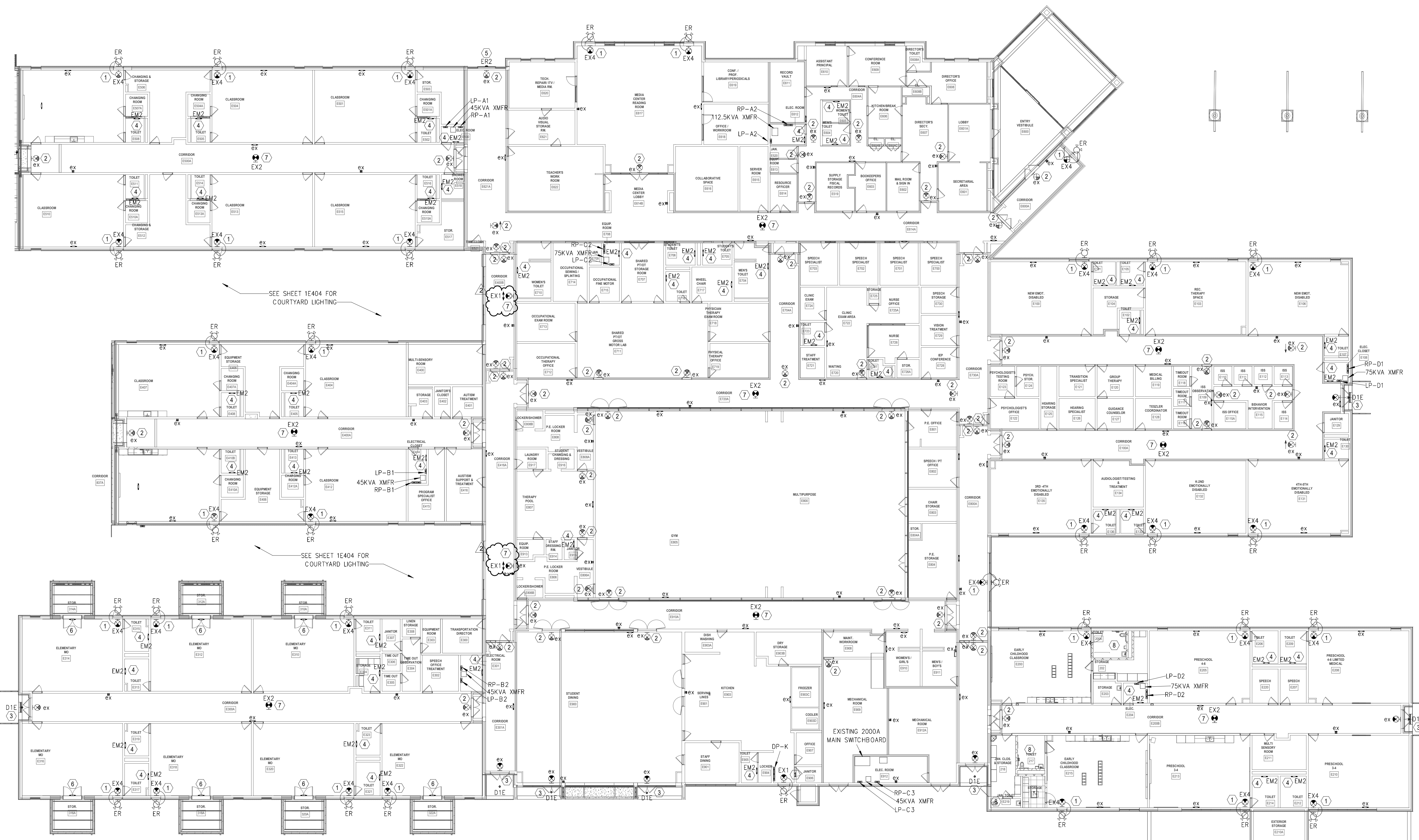
KEY PLAN



CONSTRUCTION DOCUMENTS 04/19/2021
PRINCIPAL IN CHARGE: HFB
PROJECT ENGINEER: RM
DRAWN BY: CH,RP,RB,RM

SHEET TITLE:
OVERALL EXISTING
BUILDING EMERGENCY
EGRESS LIGHTING PLAN

SHEET NO. PROJ. NO.
3E600 2020-124



1 OVERALL EXISTING BUILDING EMERGENCY EGRESS LIGHTING PLAN
3E600 1/16" = 1'-0"

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