
ADDENDUM ONE

Project Number: 23-031
Project Name: A New Classroom Addition for
Davis Elementary School
Addendum Release Date: February 8, 2024

Prime Bidders/Proposers acknowledge the receipt of this Addendum by inserting the number and date in the appropriate position on the Proposal Form. Failure to do so may subject the Bidder/Proposer to disqualification. This Addendum is a part of the Contract Documents. It modifies them as follows:

Item No. 1

Section 00030

Contractor's Qualifications / Instructions

At the Contractor's option, it will be acceptable to submit only their Proposal Form and Bid Bond in a sealed envelope before 2:00pm on February 15, 2024, with the understanding that two bound notebooks containing all required documentation must be received before 2:00pm on February 16, 2024, at the Central Office at 52 Tradition Lane, Trenton GA 30752.

Item No. 2

Sections 01020 & 08710

Allowances & Door Hardware

Replace these sections in their entirety (see attachments).

Item No. 3

Section 05120

Structural Steel Framing

Under 1.5 Quality Assurance, A. & B.: AISC Certification will not be required for the Steel Erector but is preferred. All other requirements remain unchanged.

Item No. 4

Section 08520

Single Hung Aluminum Windows

Add this section in its entirety (see attachment).

Item No. 5

Sheets A1.1, A1.2, A2.1, A4.1, A4.2, A4.3, A5.1, A6.1, A7.1 and A7.2

Replace these sheets in their entirety (see attachments).

Item No. 6**Sheet A4.4**

Add this sheet in its entirety (see attachment).

Item No. 7**Pre-proposal Meeting Sign-In Sheet**

See attachment.

Item No. 8**Approved Requests for Substitutions**

The products and manufacturers listed below shall be considered acceptable substitutions provided they meet all requirements listed per contract documents. No exceptions, limitations, or restrictions will be accepted.

07411, 07415 – Metal Roof Panels, Wall Panels, Soffit (Dimensional Metals Inc. (DMI))

Full Height Drainage Materials (CavClear)

Item No. 9**Contractor's Q & A**

See below for Answers to Contractor's Questions.

1. Reference Section 00010-Requests for Proposals, last paragraph:

- “No proposal will be considered unless it is accompanied by satisfactory evidence that the Bidder holds any and all necessary or required Federal, State, or local licenses and/or permits.” I assume a copy of our Georgia Contractor's License will meet this requirement. Under which TAB in our proposal does the Owner wish this documentation?

Response: Please provide this information under tab “J”.

- “Pursuant to O.C.G.A 13-10-91, all contractors and sub-contractors performing work with the State of Georgia on a contract with a public employer must register and participate in a federal work authorization. The Board will require certification for contractor that this requirement has been met.” I assume an executed E-Verify Memorandum will meet this requirement. Under which TAB in our proposal does the Owner wish this documentation?

Response: Please provide this information under tab “J”.

- “Each Respondent shall submit with it proposal a copy of current Business License &/or Occupational Tax Certificate issued in the state it resides. If

bidder cannot provide this License, it will be required to obtain one from the City of Trenton if it is Awarded Respondent.” P&C can provide current Business License for State of Tennessee and a current Business License of City of LaFayette, GA (it is my understanding a business license from one Georgia City will work in any other Georgia City). Under which TAB in our proposal does the Owner wish this documentation?

Response: Please provide this information under tab “J”.

2. Reference Section 00150-Preliminary Construction Schedule, Part B 10 states “Access to existing building6/5/2024”. Is there a date all work in the existing building must be completed prior to the start of the 2024-2025 school year in July/August 2024?

Response: All work concerning the existing building and access to the cafeteria drive should be completed prior to July 15, 2024. Access after that point will need to coordinated with Owner/Architect.

3. What are the General Conditions for the Project?

Response: AIA document A201-2017, General Conditions for Construction is incorporated by AIA A101-2017 as described in specification section 00090.

4. Who is responsible to cover cost and provide Builder’s Risk Insurance: Owner or Contractor?

Response: The Contractor is responsible to provide Builder’s Risk Insurance. See specification section 00090 where it is referenced as “Course of Construction Insurance”.

5. Please provide electronic copy of Geotechnical Report for this project.

Response: This is provided as an attachment to the 02990 Soil Investigation specification.

6. Section 00090-Form of Agreement, Part B, e seems to state Contractor must provide any additional insurance required by the State of Georgia for the handling of

Asbestos. Is removal of Asbestos in our scope of work? If so, please provide electronic copy of Current Asbestos/Hazardous Material Report or Survey.

Response: Encountering asbestos is not anticipated in this project.

7. Have Documents been submitted to Dade County Building Department and State of Georgia Fire Marshall for permitting? What is status of permit?

Response: Documents have been submitted and approved by the GADOE and Georgia State Fire Marshal's Office. Submission to the Dade County Building Department was not required.

8. Reference Section 01290-Payment Procedures, Part 1.3, B, 5a requires evidence of insurance for materials stored on site. This is **not** possible, as materials stored on site are covered by the Builder's Risk Policy and we are not able to obtain a separate certificate of insurance. We can only obtain a certificate of insurance for materials stored off-site in a bonded warehouse.

Response: Builders Risk Insurance coverage will be sufficient. Additional insurance for this item will not be required.

9. Reference Section 01290-Payment Procedures, Part 1.3, B, 5b states the Owner will not pay for materials stored off site. This is a request to ask the Owner to reconsider this requirement. In today's industry, we need to order materials when we can so that the project is not delayed. Materials stored off site in a warehouse are normally less likely to be stolen than they will be at an isolated job site. When stored off site in a warehouse, invoices and certificates of insurance can be provided to protect the interest of the Owner. Not all materials on a project can be stored on site, and an off-site warehouse is often the best option. Not being able to store materials off-site can lead to delays in the project schedule beyond anyone's control.

Response: Payment for materials stored off-site will be allowed contingent upon their placement in a bonded warehouse with proof of insurance provided.

10. When this project bid the first time, Addendum 1 allowed Contractors to have an option to deliver the Contractor's Bid Response in booklet form no later than 24 hours of bid time the next day. I request that Contractors be allowed to this option again to

deliver two copies of bound Bid Responses within 24 hours of the bid date, and only submit Bid Proposal and Bid Bond on Bid Day at the time designated.

Response: This has been addressed by Addendum 1.

11. Reference Section 02510, Part 3.07 A: who is responsible to pay for testing services: Owner or Contractor?

Response: The Owner shall pay for testing and the Contractor shall be responsible for coordination.

12. Civil Specifications require Contractor to pay for testing services. Concrete Specifications state Owner will pay for testing services. Steel Specifications state Owner will pay for testing services. It would be much simpler if the same testing service was used on this project. I feel it is a conflict of interest for the Contractor to pay for any testing services (with the exception of payment for areas that failed initial testing); and request that the Owner pay for all testing services. Testing service should be an independent service to the Owner.

Response: The Owner shall pay for testing and the Contractor shall be responsible for coordination.

13. Are CAD files available for use during the bidding process?

Response: Yes. Please submit CAD file requests to mparton@krharchitects.com .

14. Reference Section 05120, Part 1.5 A and B: requirements for installer and fabricator to be participants in the AISC Quality Certification Program and designated an AISC-Certified Erector and AISC-Certified Plan, Category BU. I request the requirement to be participants in the AISC Quality Certification Program for steel erectors and fabricators be deleted. There are not many local participants in this program. Language can be changed so that erector and fabricator follow the standards of the AISC Quality Certification Program.

Response: This has been addressed by Addendum 1.

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15. Reference Drawing C2: areas of Chain Link (CL) and Arch. Fence are shown. Drawing C7 Fence and Gate Details are for Chain Link Fence. Section 02831 references Chain Link and Temporary Fence. Please provide details and specifications for Arch. Fence.

Response: This has been addressed by Addendum 1. See notes on revised sheet A1.1.

16. Reference Section 05400, Part 1.4B: we assume Engineered Stamped Shop Drawings are required for Roof Trusses (Part 2.4) but are not required for Exterior Non-Load Bearing Wall Framing (Part 2.3). Please confirm.

Response: Engineer stamped submittal review will be required for exterior non-load bearing wall framing to address wind load.

17. Reference Section 00080 Proposal Form-Part B Unit Price Proposal (Quantity Allowances): units for Unit Price 5, 6, and 7 are shown as C.Y. However, Section 01020, Part 3.4 A: units for Unit Price 5, 6, and 7 are shown as Tons. Please clarify.

Response: This has been addressed by Addendum 1.

18. Reference Section 04200: there is no reference to Stone in this section. However, Detail 1/A2.1 Note 5 shows Reclaimed Rubble Stone and Detail 1/A4.1 shows Reclaimed Natural Stone. Please provide requirements and/or source for Stone material.

Response: Stone material is present on site. Install as shown in sections.

19. Regarding the locks for the cabinet doors, are they only required as shown on the Teachers Wardrobes?

Response: Yes, only "Type E" tall cabinets (Teachers Cabinets) will require the Sargent Core IC locks.

20. Your note on the built-in desk tops have the tops shown as P-Lam. Is P-Lam also used for the tops over the base cabinets?

Response: Yes, plastic laminate tops are required on the base cabinets as well. Please reference the 12304 specification. Please note that solid surface worktops are not required on the casework shown in this project.

21. There is a line drawn about 12" below the cubby cabinets, is this intended to be a $\frac{3}{4}$ " thick matching panel?

Response: Yes, this is matching panel with coat hooks. Please see the revised A7.1 sheet issued in Addendum 1 concerning these details.

22. Reference Section 08 71 00, Part 3.07: Hardware Set #3 lists Doors 101, 102, and 104. However, these doors are not shown on the Door Schedule on Drawing A5.1. I believe these doors are carry overs from the original drawings as these doors were originally shown in the Connector, which has been deleted.

Response: This has been addressed by Addendum 1.

23. Reference Section 08 71 00, Part 3.07: Hardware Set #4 lists Door 103. However, this door is not shown on the Door Schedule on Drawing A5.1. Again, I believe this door is a carry over from the original drawing as this door was originally a Corridor Door in the Connector, which has been deleted.

Response: This has been addressed by Addendum 1.

24. Reference Section 08 71 00, Part 3.07: Hardware Set #3 lists door 119. I believe this is not correct hardware for this door as hardware is for a pair of doors and Door Schedule on Drawing A5.1 shows Door 119 as a single door. Maybe this should be Hardware Set #7 instead.

Response: This has been addressed by Addendum 1.

25. Please reference Detail 4/A4.3 and 5/A4.3: should the construction of the walls at these locations be similar?

Response: These sections have been updated by Addendum 1.

26. Please reference 5/A4.3: appears to have metal stud framing on exterior side of light gauge metal trusses, though this is not spelled out. If metal stud framing at this location, is it necessary to have two layers of Type "X" Gyp on each side of metal stud framing to continue rated wall assembly to roof deck similar to Detail 4/A4.3? Reference Detail 4/S3.2 (same location as Detail 5/A4.3): 7/8" OSB Sheathing w/edge fastening @ 6" OC and field fasteners @ 12" oc (typ above main roof deck) blocking at 4'0" oc max. Please clarify if exterior wall at this location is to be built per Detail 5/A4.3 (revised??) or 4-S3.2.

Response: These sections have been updated by Addendum 1.

27. Section 08800, Part 3.8 lists Exterior Glazing 1 and Exterior Glazing 2. However, Drawing A5.1- Window Frame Elevations does not show where each type glazing is to be installed. Please provide Glazing Schedule to show where each type glazing is to be installed.

Response: Exterior Glazing 2 will not be used on this project.

28. Where is the striping detailed on drawing C7 to be located?

Response: The (CW) Crosswalk striping will not be used on this project.

29. C2 has a note that indicates 400 LF of 4' chain link fencing, meanwhile the site plan shows 6' chain link fencing. Is the intent for us to carry a 400 LF of fencing in our number to be placed at the Owner's direction and it isn't shown on the drawings?

Response: Yes, the 400 LF of 4' chain link fencing will be placed along the western edge of the school site in an area per indicated per Owner's direction, which we did not have survey information available to show on the civil drawings.

30. The specifications are calling for a completely mechanically attached system including iso. This is fine for the majority of the TPO roof. However the area where the high roof and low roof meet at the HVAC shows to be concrete on detail 5/A4.3 and structural sheet S2.1. Would fully adhering this section only including insulation be permissible? The remaining TPO will be fastened.

Response: Yes, this will be acceptable.

31. On drawing A1.1, 'MS1 – 12"x36" Metal Shelving Unit' is indicated in the legend but is not shown anywhere on the drawings. Does this item apply to the project?

Response: MS1 shelving units will not be used on this project.

32. On drawing A2.1, Materials Legend #14 indicates “Existing Stone Monument Signs”. Are these signs existing or are they new signs that need to be furnished and installed by the contractor?

Response: These signs are existing and shall be installed by the Contractor in the new locations shown.

33. Spec section 02831 states that the temporary fencing is to have driven post with concrete footings as necessary. Will temporary fence panels with steel stands be acceptable? Is there a requirement for a privacy screen as well?

Response: Yes, this will be acceptable contingent upon the fencing installation being secure between panels and weighted in place. No privacy screening is required.

34. Is the “Emergency Responder Radio Antenna Repeater System” required for this project?

Response: Yes, this is required.

35. Drawing E1.1 lighting plan, referenced note #3, states daylight harvesting sensors although they are not shown on the drawing. Do these need to be provided?

Response: No, these will not be required.

36. Lighting types AE, C, & F are shown on the lighting schedule but not shown on the drawing. Will these fixtures still be needed?

Response: No, these will not be required.

37. C2 indicates “ARCH. FENCE”. Is this referring to the detail on C7 that consist of barbed wire? What is the height of this fence?

Response: No, see the revised sheet A1.1 issued in Addendum 1.

38. For clarification, in the pre-bid it was said that the base lighting package is to match the existing lighting. Assuming that this is the Columbia LCAT Series as noted as the owners preferred choice on E1.1, is ALT 1 intended to be an approved equal?

Response: No, ALT 1 is intended to show the cost of the Columbia LCAT series if it is more expensive than the other listed equals.

39. Questions on Fencing:

- Drawing C2-Note: 400 Lf 4' (CL) Black Vinyl Chain Link Fence per Detail and Specifications: Please confirm that Black Vinyl Fence is only at locations designated CL.
Response: No, the 400 LF of 4' chain link fencing will be placed along the western edge of the school site in an area per indicated per Owner's direction, which we did not have survey information available to show on the civil drawings.
- Drawing C7 Fence Details: three strands galvanized 12.5 ga barbed wire (only where specifically noted on plans): I see no areas where barbed wire is noted on plans. Please clarify locations where barbed wire is required.

Response: Barbed wire will not be required.

40. Reference Drawing E5.1: Key Note #8 requires connecting the tamper switch to the fire alarm system and coordinating the exact location of the vault with the civil drawings prior to rough-in. However, keyed note #8 is not actually referenced on the plan. That said, do we need to plan on running that conduit/cable to the vault shown on Drawing C4?

Response: Yes, this is required.

41. Reference Drawing E5.1: Key Note #9 requires connecting the post indicator valve vault tamper switch to the fire alarm system and coordinating the exact location of the vault with the civil drawings prior to rough-in. However, keyed note #9 is not actually referenced on the plan. That said, do we need to plan on running that conduit/cable to the vault shown on Drawing C4?

Response: Yes, this is required.

42. Please confirm the emergency responder radio antenna repeater system, voice/data/structured cabling, fire alarm system, and intercom/paging system is in our scope of work.

Response: Yes.

43. The operable windows shown are too large and Kawneer will not manufacture. How should we go about pricing windows at these locations if the specified supplier will not manufacture?

Response: This has been addressed by Addendum 1.

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44. Reference Specification Section 16539-Emergency Responder Radio Antenna Repeater System: is this scope of work for the new addition only, or is the system required to cover the existing buildings also?

Response: This shall cover the new and existing buildings.

45. See attached drawing A1.2 and two questions from a masonry contractor. I believe the answer to both questions should be CMU to joist bearing height, but want to confirm before I give him my answer.

Response: This has been addressed by Addendum 1.

****END****

SECTION 01020 - 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.
 - 2. Quantity allowances.
 - 3. Contingency 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 DEFINITIONS

- A. Suitable soil/materials are soils or materials defined as satisfactory or approved backfill and fill material or granular fill acceptable to the Engineer of Record.
- B. Unsuitable soil/material are soils or material defined as unsatisfactory and/or that are not suitable or appropriate for their intended use as determined by the testing agency or the Engineer of Record.

1.4 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.

1.5 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.

1.6 ALLOWANCES, GENERAL

- A. Owner reserves the right to use unused portions of Allowances for other Work required by the Project.
 - 1. The Owner or Architect shall direct the Contractor as to the use of any unused Allowances.

1.7 QUANTITY ALLOWANCES

- A. Use quantity allowances as scheduled in this section in conjunction with unit prices as scheduled in Specification Section 01026 – Unit Prices to determine line item values associated with the quantity allowances schedule.
- B. Line items for each quantity allowance scheduled shall be included on the “Schedule of Values” included with application for payments.
- C. Contractors costs associated with these line item values shall include all cost necessary, including but not limited to materials, delivery, installation, insurance, applicable taxes, overhead and profit, labor burden, etc.
- D. Should the quantity allowances be exceeded, change orders authorizing additional quantities shall use the same unit price as scheduled in Specification 01026 – Unit Price for additional cost.
- E. At project closeout, credit all unused allowances remaining in the Schedule of Values to Owner by change order.

1.8 LUMP-SUM ALLOWANCES

- A. Line items for each lump sum allowance scheduled shall be included on the “Schedule of Values” included with the Application for Payment.
- B. Contractor’s costs associated with the utility allowances shall be based on the invoice amount from the utility company plus 7 ½ percent for Contractor’s handling. Contractor shall coordinate work with proper utility company, obtain written cost estimate from the utility company, and have estimate approved by Owner prior to beginning work.
- C. Should the lump sum allowances be exceeded, change orders authorizing additional costs shall be executed using the same basis of the original allowance (utility company invoice plus 7 ½ percent for Contractor’s handling).
- D. At project closeout, credit all unused allowances remaining the Schedule of values to Owner by Change Order.

1.9 CONTINGENCY ALLOWANCES

- A. Use the contingency allowance only as directed by Architect for Owner’s purposes and only by Change Orders that indicate amounts to be charged to the allowance.
- B. Contractor’s overhead, profit, and related costs for products and equipment ordered by Owner under the contingency allowance and are part of the Contract Sum. These costs include delivery, installation, taxes, insurance, equipment rental, and similar costs.

- C. Change Orders authorizing use of funds from the contingency allowance will include Contractor's related costs and reasonable overhead and profit margins.
- D. Line items for each contingency allowance scheduled shall be included on the "Schedule of Values" included with applications for payment.
- E. At Project closeout, credit unused amounts remaining in the contingency allowance to Owner by Change Order.

PART 2 - PRODUCTS

2.1 PRODUCTS

- A. Back fill and fill materials shall be provided as indicated in Division 2 – Earthwork or as recommended by testing company and approved by the Engineer of Record.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. If unsuitable soils or rock are encountered during the Project, the Project Testing Company and the Engineer of Record shall be notified immediately.

3.2 UNSUITABLE SOILS AND ROCK

- A. Removal, disposal and placement of unsuitable soils materials and any rock shall be at the recommendation of the Project's Testing Company and as approved by the Engineer of Record.
 - 1. Remove shall include removal by acceptable methods and equipment of the minimum quantities deemed necessary by the Project's Testing Company.
 - 2. Disposal shall include disposal of materials either on site or off site as indicated. Disposal of materials on site shall be at the direction of the Engineer of Record. Rock materials disposed of on site shall be placed in fill slopes as directed by the Engineer of Record. Disposal of materials off site shall be in accordance with applicable laws and regulations. It shall be the responsibility to dispose of off site materials accordingly.
 - 3. Place shall include obtaining suitable backfill and or fill materials or some obtained from on-site or off-site sources as indicated and placing materials and compacting to Project requirements. Materials obtained from on-site sources shall be obtained from on site locations as directed by the Engineer of Record.
 - 4. **No allowances shall be paid unless all quantities are qualified, quantified and approved by the Projects Testing Company and the Engineer of Record.**

3.3 REMOVAL AND RELOCATION OF EXISTING UTILITIES

- A. Removal or relocation of utilities shall be coordinated by the Contractor.

3.4 SCHEDULE OF ALLOWANCES:

Note: Allowances and Unit prices are in addition to work already included in the contract documents.

A line item for these allowances shall be included on the "Schedule of Values" included with application for payments.

At project closeout, credit the remaining amount of all allowances in the Schedule of Values to the Owner by change order.

A. Quantity Allowances

1. Include in the base bid an amount to remove and dispose of 50 cubic yards of Mass Rock off site.
2. Include in the base bid an amount to remove and dispose of 50 cubic yards of Trench Rock off site.
3. Include in the base bid an amount to remove and dispose of 100 cubic yards of unsuitable soil off site.
4. Include in the base bid an amount to haul in 100 cubic yards of suitable soil from off-site and compact in-place to replace excavated rock or unsuitable soil.
5. Include in the base bid an amount to haul in and place 30 cubic yards #4 stone
6. Include in the base bid an amount to haul in and place 30 cubic yards of #57 stone.
7. Include in the base bid an amount to haul in and place 10 cubic yards of Rip Rap.
8. Include in the base bid an amount for material and placement of 50 square yards of Tensar BX 1100 Geogrid or approved equal.
9. Include in the base bid an amount to haul in and place 50 cubic yards of compacted graded aggregate base.
10. Include in the Base Bid an amount to furnish and place 50 lineal feet of Trench Drain.
12. Include in the Base bid \$1,500 per 1000 bricks. All calculations for brick quantities are the responsibility of the contractor. See section 04200 Masonry for additional information.

B. Lump Sum Allowances

1. Lump Sum Allowance: Include in the base bid an amount of \$5,000.00 for purchase and installation of a backflow preventer on the water meter at Highway 301.

C. Contingency Allowance

1. General Construction Allowance: Include in the base bid an amount of \$250,000.00 for changes in the scope of work as authorized by the Owner and Architect.

SECTION 08520 SINGLE HUNG ALUMINUM WINDOWS

PART 1 GENERAL

1.1 Work Included

- A. Furnish and install aluminum architectural windows complete with hardware and related components as shown on drawings and specified in this section.
- B. Field Measurements: Verify aluminum window openings by field measurements before fabrication and indicate measurements on Shop Drawings.
- C. All windows shall be AAMA requirements for an AW50 Single Hung. Manufactures wanting to get there product approved must be done 10 days prior to the bid opening.
 - 1. A sample window, 2'-0" x 3'-0" single unit, as per requirements of architect.
 - 2. Test reports documenting compliance with requirements of Section 1.05.
- D. Approved Manufactures
 - 1. Efco Corporation
 - 2. Kawneer Company
 - 3. Traco
 - 4. YKK
- E. Glass and Glazing
 - 1. All units shall be factory glazed. Refer to section 08800 glass and glazing.
- F. Single Source Requirement
 - 1. All products listed in Section 1.02 shall be by the same manufacturer.

1.2 Related Work

- A. Section 08410 - Entrances and Storefront
- B. Section 08800- Glass and Glazing

1.3 Testing and Performance Requirements

- A. Test Units
 - 1. Air, water, and structural test unit shall conform to requirements set forth in ANSI/AAMA/NWDA 101/I.S.2/NAFS-02.
 - 2. Thermal test unit sizes shall be 4'-0" x 6'-0". Unit shall consist of a single hung window.
- B. Test Procedures and Performances
 - 1. Windows shall conform to all AAMA/WDMA 101/I.S.2/NAFS requirements for the window type referenced in 1.01.B. In addition, the following specific performance requirements shall be met.
 - 2. Air Infiltration Test: Maximum rate not more than indicated when tested according to AAMA/WDMA 101/I.S.2/NAFS.
 - a. Maximum Rate: 0.3 cfm/sq.ft. (5 cu.m/h x sq.m) of an inward test pressure of 6.24 lbf/sq.ft. (300 Pa).

- b. Air infiltration shall not exceed .10 cfm per foot of crack.
- 3. Water Resistance Test
 - a. Water Resistance: No water leakage as defined in AAMA/WDMA referenced test methods at a water test pressure equaling that indicated, when tested according to AAMA/WDMA 101/I.S.2/NAFS Water Resistance Test.
 - b. There shall be no uncontrolled water leakage.
- 4. Uniform Load Deflection Test
 - a. With window sash closed and locked, test unit in accordance with ASTM E 330 at a static air pressure difference of 50 psf, positive and negative pressure.
 - b. No member shall deflect over L/175 of its span.
- 5. Uniform Load Structural Test
 - a. With window sash closed and locked, test unit in accordance with ASTM E 330 at a static air pressure difference of 75.0 psf, both positive and negative.
 - b. At conclusion of test there shall be no glass breakage, permanent damage to fasteners, hardware parts, support arms or actuating mechanisms, nor any other damage that would cause the window to be inoperable.
- 6. Forced Entry Resistance
 - a. Windows shall be tested in accordance to ASTM F 588 or AAMA 1302.5 and meet the requirements of performance level 10.
- 7. Condensation Resistance Test (CRF)
 - a. Provide aluminum windows tested for thermal performance according to AAMA 1503, showing a CRF of 45.
- 8. Thermal Transmittance: Provide aluminum windows with a whole-window, U-factor maximum indicated at 15-mph (24-km/h) exterior wind velocity and winter condition temperatures when tested according to NFRC 100.
 - a. U-Factor: Maximum of .55..
- 9. Solar Heat Gain Coefficient (SHGC): Provide aluminum windows with a whole-window SHGC maximum of 0.40.
- 10. Life Cycle Testing
 - a. Test in accordance with AAMA 910. There shall be no damage to fasteners, hardware parts, support arms, activating mechanisms, or any other damage that would cause the window to be inoperable. Air infiltration and water resistance tests shall not exceed specified requirements.

1.6 Quality Assurance

- A. Provide test reports from AAMA accredited laboratories certifying the performance as specified in 1.05.
- B. Test reports shall be accompanied by the window manufacturer's letter of certification, stating the tested window meets or exceeds the referenced criteria for the appropriate ANSI/AAMA/NWDA 101/I.S.2/NAFS-02 window type.

1.7 Submittals

- A. Contractor shall submit shop drawings; finish samples, test reports, and warranties.
 - 1. Samples of materials as may be requested without cost to owner, i.e., metal, glass, fasteners, anchors, frame sections, mullion section, corner section, etc.

1.8 Warranties

- A. Total Window System
 - 1. The responsible contractor shall assume full responsibility and warrant for one year the satisfactory performance of the total window installation which includes that of the windows, hardware, glass (including insulated units), glazing, anchorage and setting system, sealing, flashing, etc., as it relates to air, water, and structural adequacy as called for in the specifications and approved shop drawings.
 - 2. Any deficiencies due to such elements not meeting the specifications shall be corrected by the responsible contractor, at his expense, during the warranty period.

PART 2 PRODUCTS

2.1 Materials

- A. Aluminum
 - 1. Extruded aluminum shall be 6063-T5 or T6 alloy and tempered.
- B. Hardware
 - 1. Sweep latches shall be of white bronze with a US25D brushed finish.
- C. Balances
 - 1. Balances shall be of appropriate size and capacity to hold sash in position in accordance with AAMA 101, Section 2.2.1.3.2 and AAMA 902, Section 8.1.
 - 2. Balances shall be tested in accordance with AAMA 902, "Voluntary Specification for Sash Balances". Balances shall be block and tackle type. Spiral balances will not be acceptable.
- D. Weather-Strip
 - 1. All primary weather-strip shall be FIN-SEAL® or equal.
- E. Thermal Barrier
 - 1. All exterior aluminum shall be separated from interior aluminum by a rigid, structural thermal barrier. For purposes of this specification, a structural thermal barrier is defined as a system that shall transfer

- shear during bending and, therefore, promote composite action between the exterior and interior extrusions.
2. Sills are thermally broken with 2 thermal struts, consisting of glass reinforced polyamide nylon, mechanically crimped in raceways extruded in the exterior and interior extrusions. All other frames and sash are thermally broken using the latest technology in two-part, high-density polyurethane. A nonstructural thermal barrier is unacceptable.
 3. All windows shall be labeled in compliance with the Georgia State Supplements and Amendments to the IEBC.

2.2 Fabrication

A. General

1. All aluminum frame and vent extrusions shall have a minimum wall thickness of .080". Frame sill members shall have a minimum wall thickness of .094".
2. Mechanical fasteners, welded components, and hardware items shall not bridge thermal barriers. Thermal barriers shall align at all frame and vent corners.
3. Depth of frame shall not be less than 3 7/8".
4. All windows shall be supplied with sub frames at the head jamb and sill.

B. Frame

1. Frame components shall be mechanically fastened.

C. Sash

1. All sash extrusions shall have a minimum wall thickness of .080".
2. All horizontal sash extrusions shall be tubular.
3. Corner connections shall be mechanically fastened.

D. Screens

1. Screen frames shall be extruded aluminum.
2. Screen mounting holes in the window frame shall be factory drilled.
3. Screen mesh shall be aluminum.

E. Glazing

1. All units shall be glazed with the manufacturer's standard sealant process provided the glass is held in place by a removable, extruded aluminum, glazing bead. The glazing bead must be isolated from the glazing material by a gasket.

F. Finish

1. Organic
 - a. High-Performance Organic Finish (2-Coat Fluoropolymer): AA-C12C40R1x (Chemical Finish: cleaned with inhibited chemicals, Chemical Finish: conversion coating; Organic Coating: manufacturer's standard 2-coat, thermocured system consisting of specially formulated inhibitive primer and fluoropolymer color topcoat containing not less the 20 percent polyvinylidene fluoride resin by weight). Prepare, pretreat, and apply coating to exposed metal surfaces to comply with AAMA 2605 and with coating and resin manufacturers' written instructions. Color shall be

chosen by the Architect from the manufacturer's standard colors. Manufacturer shall have a minimum of 21 colors.

PART 3 EXECUTION

3.1 Inspection

A. Job Conditions

1. Verify that openings are dimensionally within allowable tolerances, plumb, level, clean, provide a solid anchoring surface, and are in accordance with approved shop drawings.

3.2 Installation

- A. Use only skilled tradesmen with work done in accordance with approved shop drawings and specifications.
- B. Plumb and align window faces in a single plane for each wall plane, and erect windows and materials square and true. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.
- C. Adjust windows for proper operation after installation.
- D. Furnish and apply sealants to provide a weather tight installation at all joints and intersections and at opening perimeters. Wipe off excess material and leave all exposed surfaces and joints clean and smooth.

3.3 Anchorage

- A. Adequately anchor to maintain positions permanently when subjected to normal thermal movement, specified building movement, and specified wind loads.

3.4 Protection and Cleaning

- A. After completion of window installation, windows shall be inspected, adjusted, put into working order and left clean, free of labels, dirt, etc. Protection from this point shall be the responsibility of the general contractor.

End of Section.

PART 1 – GENERAL

1.01 SUMMARY

- A. Section includes furnishing, installation and commissioning of door hardware for doors specified in “Hardware Sets” and required by actual conditions: including screws, bolts, expansion shields, electrified door hardware, and other devices for proper application of hardware.
- B. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.
- C. Related Divisions:
 - 1. Division 07 Joint Sealants
 - 2. Division 08 Openings
 - 3. Division 09 Finishes
 - 4. Division 26 Electrical
 - 5. Division 28 Electronic Safety And Security

1.02 REFERENCES

- A. American National Standards Institute/Builders Hardware Manufacturers Association (ANSI):
 - 1. ANSI/BHMA A156.1 Butts & Hinges (2016)
 - 2. ANSI/BHMA A156.2 Bored & Preamsembled Locks & Latches (2011)
 - 3. ANSI/BHMA A156.3 Exit Devices (2014)
 - 4. ANSI/BHMA A156.4 Door Controls – Closers (2013)
 - 5. ANSI/BHMA A156.6 Architectural Door Trim (2015)
 - 6. ANSI/BHMA A156.7 Template Hinge Dimensions (2016)
 - 7. ANSI/BHMA A156.8 Door Controls – Overhead Stops and Holders (2015)
 - 8. ANSI/BHMA A156.16 Auxiliary Hardware (2013)
 - 9. ANSI/BHMA A156.18 Materials & Finishes (2016)
 - 10. ANSI/BHMA A156.19 Power Assist & Low Energy Power Operated Doors (2013)
 - 11. ANSI/BHMA A156.21 Thresholds (2014)
 - 12. ANSI/BHMA A156.22 Door Gasketing Systems (2012)
 - 13. ANSI/BHMA A156.26 Continuous Hinges (2012)
 - 14. ANSI/BHMA A156.28 Keying Systems (2013)
- B. International Code Council/American National Standards Institute (ICC/ANSI)/ADA:
 - 1. ICC/ANSI A117.1 Standards for Accessible and Usable Buildings and Facilities 2006
- C. Underwriters Laboratories, Inc. (UL):
 - 1. UL 10C Positive Pressure Fire Test of Door Assemblies.
 - 2. UL 1784 Air Leakage Test of Door Assemblies.
 - 3. UL 294 Access Control System Units

- D. Door and Hardware Institute (DHI):
 - 1. DHI Publications – Keying Systems and Nomenclature (1989).
 - 2. DHI Publication – Abbreviations and Symbols.
 - 3. DHI Publication – Installation Guide for Doors and Hardware.
 - 4. DHI Publication – Sequence and Format of Hardware Schedule (1996).
- E. National Fire Protection Agency (NFPA):
 - 1. NFPA 70 National Electrical Code 2008
 - 2. NFPA 80 Standard for Fire Doors and Other Opening Protectives 2007
 - 3. NFPA 101 Life Safety Code 2006
 - 4. NFPA 105 Standard for the Installation of Smoke Door Assemblies 2007

1.03 SUBMITTALS

- A. Submit in accordance with Conditions of the Contract and Division 1 Administrative Requirements and Submittal Procedures Section.
- B. Shop Drawings:
 - 1. Organize hardware schedule in vertical format as illustrated in DHI Publications Sequence and Formatting for the Hardware Schedule. Include abbreviations and symbols page according to DHI Publications Abbreviations and Symbols. Complete nomenclature of items required for each door opening as indicated.
 - 2. Coordinate final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of hardware.
 - 3. Architectural Hardware Consultant (AHC), as certified by DHI, who will affix seal attesting to completeness and correctness, including the review of the hardware schedule prior to submittal.
- C. Submit manufacturer's catalog sheet on design, grade, and function of items listed in hardware schedule. Identify specific hardware item per sheet, provide an index, and cover sheet.
- D. Templates:
 - 1. Upon final approval of the architectural hardware schedules, submit one set of complete templates for each hardware item to the door manufacturers, frame manufacturers, and the installers. Date and index these 8-1/2 inch x 11 inch papers in a three ring binder, including detailed lists of the hardware location requirements for mortised and surface applied hardware within fourteen days of receiving approved door hardware submittals.
- E. Closeout Submittals: Submit to Owner in a three-ring binder or CD if requested.
 - 1. Warranties.
 - 2. Maintenance and operating manual.
 - 3. Maintenance service agreement.
 - 4. Record documents.
 - 5. Copy of approved hardware schedule.
 - 6. Copy of approved keying schedule with bitting list.
 - 7. Door hardware supplier name, phone number, and fax number.

1.04 QUALITY ASSURANCE

- A. Listed and Labeled electrified door hardware as defined in NFPA 70, Article 100, by a testing agency acceptable to authority having jurisdiction.
- B. Hardware supplier will employ an Architectural Hardware Consultant (AHC) as certified by DHI and a member of the seal program who will be available at reasonable times during course of work for Project hardware consultation.
- C. Door hardware conforming to ICC/ANSI A117.1: Handles pulls, latches locks and operating devices: Shape that is easy to grasp with one hand and does not require tight grasping, tight pinching, or twisting of the wrist.
- D. Fired Rated Door Assemblies: Where fire-rated door assemblies are indicated, provide door hardware rated for use in assemblies complying with NFPA 80 that are listed and/or labeled by a qualified testing agency, for fire-protection ratings indicated, based on testing at positive pressure according to UL 10C, unless otherwise indicated.
- E. Fire Door Inspection: Prior to receiving certificate of occupancy have fire rated doors inspected by an independent Certified Fire and Egress Door Assembly Inspector (FDAI), as certified by Intertek (ITS), a written report be submitted to Owner and Contractor. Doors failing inspection must be adjusted, replaced or modified to be within appropriate code requirements.
- F. Smoke and Draft Control Door Assemblies: Where smoke and draft control door assemblies are required, provide door hardware that meets requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
- G. Door hardware certified to ANSI/BHMA standards as noted, participate and be listed in BHMA Certified Products Directory.
- H. Substitution request: create a comparison chart that includes the testing information as well as the warranty for both the specified product and the proposed substitution. Include the reason for requesting the substitution, clear catalog copy highlighting the proposed product and options, compliance statement, technical data, product warranty and lead time, to show how the proposed can meet or exceed established level of design, function, and quality. Approval of request is at the discretion of the owner, architect, and their designated consultants and will be addressed via addendum prior to bid date.
- I. Meetings: Comply with requirements in Division 1 Section "Project Meetings."
 - 1. Keying Meeting
 - 2. Owner to provide permanent cores
- J. Installer Qualifications: Specialized in performing installation of this Section and have five years minimum documented experience.
- K. Hardware listed in 3.07 – Hardware Schedule is intended to establish minimum level of design, type, function and grade of hardware to be used.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Provide clean, dry and secure room for hardware delivered to Project but not yet installed. Shelf hardware off of the floor and with larger items of hardware being stored on wooden pallets. Arrange locksets and keyed cylinders by opening number. Organize the balance of hardware by brand, model of hardware, and hardware set number. Leave the door markings of the hardware visible for installers.
- B. Furnish hardware that is not bulk packed with each unit marked and numbered in accordance with approved finish hardware schedule. Include architect's opening number, hardware set number, and item number for each type of hardware. Include keyset symbols and corresponding hardware component for keyed products.
- C. Pack each item complete with necessary parts and fasteners in manufacturer's original packaging.
- D. Deliver architectural hardware to the job site according to the phasing agreed upon in the pre-installation meeting. Inventory the delivery with the supplier's assistance. Immediately note shortages and damages on the shipping receipts and bill of lading. Coordinate replacement or repair with the supplier.
- E. Owner to provide permanent keys, cores.
- F. Waste Management and Disposal: Separate waste materials for use or recycling in accordance with Division 1.

1.06 WARRANTY

- A. General Warranty: Owner may have under provisions of the Contract Documents and be an addition and run concurrently with other warranties made by Contractor under requirements of the Contract documents.
- B. Special Warranty: Warranties specified in this article will not deprive Owner of other rights.
 - 1. Ten years for manual door closers.
 - 2. Five years for mortise, auxiliary and bored locks.
 - 3. Five years for exit devices.
- C. Replace or repair defective products during warranty period in accordance with manufacturer's warranty at no cost to Owner. There is no warranty against defects due to improper installation, abuse, and failure to exercise normal maintenance.
- D. Maintenance Tool and Instructions: Furnish a complete set of specialized tools and maintenance instructions for Owner's continued adjustment, maintenance, removal and replacement of door hardware.

PART 2 – PRODUCTS

2.01 HINGES

- A. Hinges, electric hinges, and self-closing hinges of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Standards: Products to be certified and listed by the following:
1. Butts and Hinges: ANSI/BHMA A156.1.
 2. Template Hinge Dimensions: ANSI/BHMA A156.7.
 3. Self-Closing Hinges: ANSI/BHMA A156.17.
- C. Butt Hinges:
1. Hinge weight and size unless otherwise indicated in hardware sets:
 - a. Doors up to 36" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .134" and a minimum of 4-1/2" in height.
 - b. Doors from 36" wide up to 42" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .145" and a minimum of 4-1/2" in height.
 - c. For doors from 42" wide up to 48" wide and up to 1-3/4" thick provide hinges with a minimum thickness of .180" and a minimum of 5" in height.
 - d. Doors greater than 1-3/4" thick provide hinges with a minimum thickness of .180" and a minimum of 5" in height.
 - e. Width of hinge is to be minimum required to clear surrounding trim.
 2. Base material unless otherwise indicated in hardware sets:
 - a. Exterior Doors: 304 Stainless Steel, Brass or Bronze material.
 - b. Interior Doors: Steel material.
 - c. Fire Rated Doors: Steel or 304 Stainless Steel materials.
 - d. Stainless Steel ball bearing hinges to have stainless steel ball bearings. Steel ball bearings are unacceptable.
 3. Quantity of hinges per door unless otherwise stated in hardware sets:
 - a. Doors up to 60" in height provide 2 hinges.
 - b. Doors 60" up to 90" in height provide 3 hinges.
 - c. Doors 90" up to 120" in height provide 4 hinges.
 - d. Doors over 120" in height add 1 additional hinge per each additional 30" in height.
 - e. Dutch doors provide 4 hinges.
 4. Hinge design and options unless otherwise indicated in hardware sets:
 - a. Hinges are to be of a square corner five-knuckle design, flat button tips and have ball bearings unless otherwise indicated in hardware sets.
 - b. Out-swinging exterior and out-swinging access controlled doors are required to have Non-Removable Pins (NRP) to prevent removal of pin while door is in closed position.
 - c. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
 - d. When shims are necessary to correct frame or door irregularities, provide metal shims only.
 5. Acceptable Manufacturers:

	Standard Weight	Heavy Weight
Hager	BB1279/BB1191	BB1168/BB1199
Bommer	BB5000/BB5002	BB5004/BB5006

2.02 CONTINUOUS HINGES

- A. Continuous hinges of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Standards: Products to be certified and listed by ANSI/BHMA A156.26 Grade 1.
- C. Continuous Geared Hinges:
1. Determine model number by door and frame application, door thickness, frequency of use, and fire rating requirements according to manufacturer's recommendations.
 - a. Size length of hinge to equal the actual door height unless otherwise stated in hardware sets.
- D. Material and Design:
1. Base material: Anodized aluminum manufactured from 6063-T6 material, unexposed working metal surfaces be coated with TFE dry lubricant.
 2. Bearings:
 - a. Vertical loads be carried on Lubriloy RL bearings for non-fire rated doors.
 - b. Continuous hinges are to have a minimum spacing between bearings of 2-9/16". Typical door from 80" to 84" in height to have a minimum of 32 bearings.
 3. Options:
 - a. Hinges to have Rounded Back Cover Channel (RBCC).
 - b. When full width of opening is required, use hinges that are designed to swing door completely from opening when door is opened to 95 degrees.
 - c. At fire rated openings provide hinges that carry a UL certification, up to and including 90-minute applications for wood doors and up to 3-hour applications for metal doors.
- E. Acceptable Manufacturers:

	Heavy Duty
Hager	780-112HD / 780-224HD
Bommer	FMSLFHD
Zero	910A

2.03 FLUSH BOLTS AND COORDINATORS

- A. Flush bolts of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Manufacturer to be listed by the following: Auxiliary Hardware: ANSI/BHMI A156.16.
- C. Labeled openings: Provide automatic or constant latching flush bolts per hardware schedule for inactive leaf of pairs of doors. Provide dust proof strikes for bottom bolt.
- D. Non-Labeled openings: Provide two flush bolts for inactive leaf of pairs of doors per hardware schedule. Provide extension rods so that the center line of the top flush bolt is not more than 78" above the finish floor. Provide dust proof strike from bottom bolt.
- E. Acceptable Manufacturers:

		Auto Flush Bolt	Dust Proof Strike
Hager		291D	280X
Rockwood		1942	570
Trimco		3815	3911

Addendum 1

- F. Coordinators: Provide for labeled pairs of doors with automatic flush bolts or with vertical rod exit device with a mortise-locking device per hardware schedule. Provide filler piece to extend full width of stop on frame. Provide mounting brackets for closers and special preparation for latches where applicable.

- G. Acceptable Manufacturers:

	Coordinator	Bracket	Bracket for stops greater than 2-1/4."
Hager	297	297M	297N
Rockwood	1600	1601AB	1601C
Trimco	3094	3095	3096

2.04 LOCKS AND LATCHES

- A. Locks and latches of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Standards: Product to be certified and listed by following:
1. ANSI/BHMA A156.2 Series 4000 Certified to Grade 1.
 2. ANSI/BHMA A250.13 Certified for a minimum design load of 1150 lbf (100 psf) for single out-swinging doors measuring 36" in width and 84" in height and a minimum design load of 1150lbf (70psf) for out-swinging single doors measuring 48" in width and 84" in height.
 3. UL/CUL Labeled and listed for functions up to 3 hours for single doors up to 48" in width and up to 96" in height.
 4. UL10C/UBC 7-2 Positive Pressure Rated.
 5. ICC/ANSI A1117.1
- C. Lock and latch function numbers and descriptions of manufacturer's series as listed in hardware sets.
- D. Material and Design:
1. Lock and latch chassis to be zinc dichromate for corrosion resistance.
 2. Keyed functions to be of a freewheeling design to help resist against vandalism.
 3. Non-handed, field reversible.
 4. Thru-bolt mounting with no exposed screws.
 5. Levers, zinc cast and plated to match finished designation in hardware sets.
 6. Roses, wrought brass or stainless steel material.
- E. Latch and Strike:
1. Stainless Steel latch bolt with minimum of 1/2" throw and deadlocking for keyed and exterior functions. Provide 3/4" latch bolt for pairs of fire-rated doors where required by door manufacturer. Standard backset to be 2-3/4" and adjustable faceplate to accommodate a square edge door or a standard 1/8" beveled edge door.
 2. Strike is to fit a standard ANSI A115 prep measuring 1-1/4" x 4-7/8" with proper lip length to protect surrounding trim.

- F. Acceptable manufacturers:

SARGENT – NO SUBSTITUION	10 Line Series

2.05 EXIT DEVICES

- A. Exit Devices of one manufacturer as listed for continuity of design and consideration of warranty. Touchpad type, finish to match balance of door hardware.
- B. Standards: Manufacturer to be certified and/or listed by the following:
1. BHMA Certified ANSI A156.3 Grade 1.
 2. UL/cUL Listed for up to 3 hours for "A" labeled doors.
 3. UL10C/UBC 7-2 Positive Pressure Rated.
 4. UL10B Neutral Pressure Rated.
 5. UL 305 Listed for Panic Hardware.
 6. 2007 Florida Building Code Certification Number: FL9481.1.
 7. ANSI/BHMA A250.13 Severe Windstorm Resistant Component.
- C. Material and Design:
1. Provide exit devices with actuators that extend a minimum of one-half of door width.
 2. Where trim is indicated in hardware sets provide the lever design to match design of lock levers.
 3. Exit device to mount flush with door.
 4. Latchbolts:
 - a. Rim device – 3/4" throw, Pullman type with automatic dead-latching, stainless steel
 - b. Surface vertical rod device – Top 1/2" throw, Pullman type with automatic dead-latching, stainless steel.
Bottom 1/2" throw, Pullman type, held retracted during door swing, stainless steel.
 5. Fasteners: Wood screws, machine screws, and thru-bolts.
- D. Lock and Latch Functions: Function numbers and descriptions of manufacturer's series and lever styles indicated in door hardware sets.
- E. Electric Modifications:
1. Latch Retraction (EL): retracts the latch bolt for momentary or maintained periods of time.

F. Acceptable Manufactures:

Sargent – NO SUBSTITUTION	80 Series	8500 Series

2.06 CYLINDERS AND KEYING

- A. Cylinders of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Products to be certified and listed by the following:
1. Auxiliary Locks: ANSI/BHMA A156.5
 2. DHI Handbook "Keying systems and nomenclature" (1989)
- C. Cylinders:
1. Manufacturer's standard tumbler type, BEST IC core AS DIRECTED BY ARCHITECT/OWNER.
 2. Furnish with cams/tailpieces as required for locking device that is being furnished for project.

D. Keying:

1. Copy of Owners approved keying schedule submitted to Owner and Architect with documentation of which keying conference was held and Owner's sign-off.
2. Provide a bitting list to Owner of combinations as established, and expand to twenty-five percent for future use or as directed by Owner.
3. Keys to be shipped to Owner's Representative, individually tag per keying conference.
4. Provide visual key control identification on keys.
5. Provide interchangeable construction cores with 50 construction keys as required per the keying meeting.

E. Acceptable Manufacturers:

SARGENT – NO SUBSTITUTION RA, RB, RC, RD KEYWAY

2.07 CLOSERS

- A. Closers of one manufacturer as listed for continuity of design and consideration of warranty, unless otherwise indicated on hardware schedule, comply with manufacturer's recommendations for size of closer, depending on width of door, frequency of use, atmospheric pressure, ADAAG requirement, and fire rating.
- B. Standards: Manufacturer to be certified and or listed by the following:
1. BHMA Certified ANSI A156.4 Grade 1.
 2. ADA Complaint ANSI A117.1.
 3. UL/cUL Listed up to 3 hours.
 4. UL10C Positive Pressure Rated.
 5. UL10B Neutral Pressure Rated.
- C. Material and Design:
1. Provide cast iron non-handed bodies with full plastic covers.
 2. Closers will have separated staked adjustable valve screws for latch speed, sweep speed, and backcheck.
 3. Provide Tri-Pack arms and brackets for regular arm, top jamb, and parallel arm mounting.
 4. One-piece seamless steel spring tube sealed in hydraulic fluid.
 5. Double heat-treated steel tempered springs.
 6. Precision-machined heat-treated steel piston.
 7. Triple heat-treated steel spindle.
 8. Full rack and pinion operation.
- D. Mounting:
1. Out-swing doors use surface parallel arm mount closers except where noted on hardware schedule.
 2. In-swing doors use surface regular arm mount closers except where noted on hardware schedule.
 3. Provide brackets and shoe supports for aluminum doors and frames to mount fifth screw.
 4. Furnish drop plates where top rail conditions on door do not allow for mounting of closer and where backside of closer is exposed through glass.
- E. Size closers in compliance with requirements for accessibility (ADAAG). Comply with following maximum opening force requirements.
1. Interior hinged openings: 5.0 lbs.
 2. Fire-rated and exterior openings use minimum opening force allowable by authority having jurisdiction.

F. Fasteners: Provide self-reaming, self-tapping wood and machine screws, and sex nuts and bolts for each closer.

G. Acceptable manufacturers:

Hager	5100
LCN	4041

2.08 LOW ENERGY POWER OPERATORS

A. Low energy power operators of one manufacturer as listed for continuity of design and consideration of warranty.

B. Products to be certified and listed by the following:

1. Power Assist and Low Energy Power Operated Doors: ANSI/BHMA A156.19.
2. ADA Complaint ANSI A117.1.

C. Materials and Design:

1. Self-contained electrical control unit, including necessary transformers, relays, rectifiers, and other electronic components for proper operation, switching and control of door up to 350 lbs. and also include time delay for normal cycle.
2. On pairs of doors, either door to be opened manually without the other door opening.
3. Operates as a mechanical closer if power is disconnected. Forces consistent with ANSI A117.1 and ANSI A156.19.
4. Provide delay switches for motor activation, exit device latch retraction interfacing and hold open times. Hold open times to be adjustable from 1 second to continuous seconds.
5. Adjustable vestibule sequencing input for operation of two or more units. Specify 2-659-0240.
6. Adjustable powered swing degree from 80 degrees to 110 degrees.
7. Integral obstruction detection for closing and opening cycle.
8. Adjustable built-in stop, set from 80 degrees maximum to 180 degrees manual swing.
9. When in "blow open" operation for smoke ventilation, operator will stay in the open position when loss of power.
10. Boost to close selectable on/off switch.

D. Signage: Provide signage in according to the requirements of ANSI/BHMA A156.19.

E. Acceptable Manufacturers:

Hager	8400 Series
LCN	4640 Series

F. Actuators:

1. Opening cycle activated by pressing switches with international symbol of accessibility and "PUSH TO OPEN" engraved on faceplate.
2. Switches installed in standard 2-gang electrical wall box and placed in a location in compliance with ANSI A117.1.
3. Wireless actuators optional.

4. Provide bollards as required where a suitable wall mount is not possible.

G. Acceptable Manufacturers:

Hager
MS Sedco
SDC

2.09 PROTECTIVE TRIM

- A. Protective trim of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Size of protection plate: single doors, size two inches less door width (LDW) on push side of door, and one inch less door width on pull side of door. For pairs of doors, size one inch less door width (LDW) on push side of door, and 1/2 inch on pull side of door. Adjust sizes to accommodate accompanying hardware, such as, edge guards, astragals and others.
1. Kick Plates 10" high or sized to door bottom rail height.
 2. Mop Plates 4" high.
- C. Products to be certified and listed by the following:
1. Architectural Door Trim: ANSI/BHMA A156.6.
 2. UL.
- D. Material and Design:
1. 0.050" gage stainless steel.
 2. Corners square, polishing lines or dominant direction of surface pattern so they run across door width of plate.
 3. Bevel top, bottom, and sides uniformly leaving no sharp edges.
 4. Countersink holes for screws. Space screw holes so they are no more than eight inches CTC, along a centerline not over 1/2" in from edge around plate. End screws maximum of 0.53" from corners.
- E. UL label stamp required on protection plates when top of plate is more than 16 inches above bottom of door on fire rated openings. Verify door manufacturer's UL listing for maximum height and width of protection plate to be used.

F. Acceptable Manufacturers:

Hager	190S
Trimco	
Burns	

2.10 STOPS AND HOLDERS

- A. Stops and holders of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Wall Stops: Provide door stops wherever necessary to prevent door or hardware from striking an adjacent partition or obstruction. Provide wall stops when possible. Door stops and holders mounted in concrete floor or masonry walls have stainless steel machine screws and lead expansion shields.

C. Products to be certified and listed by the following:

1. Auxiliary Hardware: ANSI/BHMA A156.16.

D. Acceptable Manufacturers:

	Convex	Concave
Hager	230W	234W
Trimco		
Burns		

E. Overhead Stops and Holders: Provide overhead stops and holders for doors that open against equipment, casework sidelights and other objects that would make wall stops/holders and floor stops/holders inappropriate. Provide sex bolt attachments for mineral core wood door applications.

F. Products to be certified and listed by the following:

1. Overhead Stops and Holders: ANSI/BHMA A156.8 Grade 1.

G. Acceptable Manufacturers:

	Heavy Duty Surface	
Hager	7000 SRF Series	
Glynn Johnson	90 SRF Series	
Sargent	590 Series	

2.11 ELECTROMAGNETIC HOLDERS

A. Electromagnetic holders of one manufacturer as listed for continuity of design and consideration of warranty.

B. Products to be certified and listed by the following:

1. ANSI A156.15 Grade 1.
2. UL/ULC Listed.
3. California State Fire Marshall listed (CSFM).
4. City of New York MEA approved.

C. Material and Design:

1. Provide electromagnetic holders where self-closing fire doors and smoke barrier doors are required to be held open. Electromagnetic holders to be fail-safe: when electrical current is interrupted, doors release to close automatically. Holding force 25-40 lbs.

D. Acceptable Manufacturers:

Hager	380 Series
LCN	
Rixson	

2.12 KEY SWITCHES

A. Key switches of one manufacturer as listed for continuity of design and consideration of warranty.

- B. Material and Design:
1. Single gang, wall mounted, recessed mortise cylinder.
 2. Tamper-resistant spanner screws.
 3. 20 gauge stainless steel faceplate.

- C. Functions:
1. Momentary (MO).
 2. Timed actuation (1-60 seconds).
 3. Alternate action (on/off) (AA).

- D. Options:
1. Anti-tamper switch (ATS).
 2. One (1) green Led (LEDG).
 3. One (1) red LED (LEDR).
 4. One (1) green LED and one (1) red LED (2.LED).

- E. Acceptable Manufacturers:

	(AA) SPDT	(MO) SPDT	(AA) DPDT	(MO) DPDT
Hager	29KS ASD	29KS MSD	29KS ADD	29KS MDD
SDC	701	702	705	706
RCI				

2.13 MODULAR ACCESS CONTROL POWER SUPPLIES

- A. Power supplies of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Products to be certified and listed by the following:
1. UL Listed.
- C. Design:
1. Use with modular access control systems.
 2. Field selectable filtered and regulated 12 VDC or 24 VDC constant voltage.
 3. 1, 2, 4, and 6 AMP load capacities . Match the power supply amperage to the total load of the opening /system plus an additional thirty percent to cover line drop, as well as possible expansion.
 4. Circuit breaker protected AC input voltage, secondary output PTC protected.
 5. Fire alarm input provides simultaneous release of fail-safe locks and holders.
 6. Interface relay.
 7. LED status indicators provide information regarding AC input, DC output, and battery backup status.
 8. Separate inputs for activation switch on entry and egress and ingress side of opening.
 9. 5 amp hour battery backup.
 10. Input 115 VAC (230 VAC optional).
 11. Optional dual 12 VDC or 24 VDC output.
 12. Optional power supply monitor module to monitor power supply status, A/C power, and D/C output and battery Status
- D. Include optional modules as required to properly interface, control, and sequence the hardware with the access control system.

E. Acceptable Manufacturer:

Sargent	3541	3 Amp

2.14 THRESHOLDS

- A. Thresholds of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Set thresholds for exterior and acoustical openings in full bed of sealant with lead expansion shields and stainless steel machine screws complying with requirements specified in Division 7 Section "Joint Sealants: Notched in field to fit frame by hardware installer. Refer to Drawings for special details.
- C. Standards: Manufacturer to be certified by the following:
1. Thresholds: ANSI/BHMA A156.21.
 2. American with Disabilities Act Accessibility Guidelines (ADAAG).

D. Acceptable Manufacturers:

Hager	417S/520S
K.N. Crowder	
Reese	

2.15 DOOR GASKETING AND WEATHERSTRIP

- A. Door gasketing and weatherstrip of one manufacturer as listed for continuity of design and consideration of warranty.
- B. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing where indicated on hardware schedule. Provide noncorrosive fasteners for exterior applications.
1. Perimeter gasketing: Apply to head and jamb, forming seal between door and frame.
 2. Meeting stile gasketing: Fasten to meeting stiles, forming seal when doors are in closed position.
 3. Door buttons: Apply to bottom of door, forming seal with threshold or floor when door is in closed position.
 4. Sound Gasketing: Cutting or notching for stop mounted hardware not permitted.
 5. Drip Guard: Apply to exterior face of frame header. Lip length to extend 4" beyond width of door.
- C. Products to be certified and listed by the following:
1. Door Gasketing and Edge Seal Systems: ANSI/BHMA A156.22.
 2. BHMA certified for door sweeps, automatic door bottoms, and adhesive applied gasketing.
- D. Smoke-Labeled Gasketing: Comply with NFPA 105 listed, labeled, and acceptable to Authorities Having Jurisdiction, for smoke control indicated.
1. Provide smoke-labeled gasketing on 20 minute rated doors and on smoke rated doors.
- E. Fire-Rated Gasketing: Comply with NFPA 80 listed, labeled, and acceptable to Authorities Having Jurisdiction, for fire ratings indicated.

F. Refer to Section 08 1416 Wood Doors for Category A or Category B. Comply with UBC 7-2 and UL10C positive pressure where frame applied intumescent seals are required.

G. Acceptable Manufacturers:

1. Perimeter Gasketing:

	Stop Applied	Adhesive Applied
Hager	881S	736
K.N. Crowder		
Reese		

2. Meeting Stile Weatherstrip:

Hager	802S / 756S
K.N. Crowder	
Reese	

3. Overlapping Astragal:

Hager	835S
K.N. Crowder	
Reese	

4. Door Bottom Sweeps:

Hager	770SV
K.N. Crowder	
Reese	

5. Automatic Door Bottoms:

Hager	730S
K.N. Crowder	
Reese	

6. Overhead Drip Guard

Hager	810S
K.N. Crowder	
Reese	

2.16 DOOR VIEWER

A. Door viewer of one manufacturer as listed for continuity of design and consideration of warranty.

B. Products to be certified and listed by the following:

1. Auxiliary Hardware: ANSI/BHMA A156.16 for L033221.

C. Design:

1. Adjustable for use on doors 1-3/8" to 2-1/8" thick doors, 9/16" hole required.
2. One way 200-degree view.
3. Tamper resistant with a privacy flap.
4. 90 min. fire rating.

D. Acceptable Manufacturers:

Hager	1759
Rockwood	
Trimco	

2.17 SILENCERS

- A. Where smoke, light, or weather seal are not required, provide three silencers per single door frame, two per double door frame and four per Dutch door frame.
- B. Products to be certified and listed by the following:
1. Auxiliary Hardware: ANSI/BHMA A156.16

C. Acceptable Manufacturers:

	Hollow Metal Frame	
Hager	307D	
Rockwood		
Trimco		

2.18 KEY CABINET

- A. Provide key cabinet; surface mounted to wall.
- B. Key control system:
1. Include two sets of key tags, hooks, labels, and envelopes.
 2. Contain system in metal cabinet with baked enamel finish.
 3. Capacity will be able to hold actual quantities of keys, plus 50 percent.
 4. Provide tools, instruction sheets, and accessories required to complete installation.

C. Acceptable Manufacturers:

Lund Equipment
Telkee Incorporated
Key Control

2.19 FINISHES

- A. Appearance of Finished Work: Variations in appearance of abutting or adjacent pieces are acceptable if within range of approved samples. Noticeable variations in the same piece are not acceptable. Variations in appearance of other components are acceptable if they are within range of approved samples.

- B. Comply with base material and finish requirements indicated by ANSI/BHMA A156.18 designations in hardware schedule.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine doors and frames, with Installers present, for compliance with requirements for installation tolerances, labeled fire-rated door assembly construction, wall and floor construction, and other conditions affecting performance.

3.02 INSTALLATION

- A. Install hardware using manufactures recommended fasteners and installation instructions, at height locations and clearance tolerances that comply with:
 - 1. NFPA 80
 - 2. NFPA 105
 - 3. ICC/ANSI A117.1
 - 4. ANSI/BHMA A156.115 Hardware Preparation in Steel Doors and Steel Frames
 - 5. ANSI/BHMA A156.115W hardware Preparation in Wood Doors with Wood or Steel Frames
 - 6. DHI Publication – Installation Guide for Doors and Hardware
 - 7. Approved shop drawings
 - 8. Approved finish hardware schedule
- B. Install soffit mounted gaskets prior other soffit mounted hardware to provide a continuous seal around the perimeter of the opening without cutting or notching.
- C. Install door closers so they are on the interior of the room side of the door. Stairwell doors will have closers mounted on the stair side and exterior doors will be mounted on the interior side of the building.
- D. In drywall applications provide blocking material of sufficient type and size for hardware items that mount directly to the wall.
- E. Locate wall mounted bumper to contact the trim of the operating trim.
- F. Mount mop and kick plates flush with the bottom of the door and centered horizontally on the door.
- G. Set thresholds for exterior, and acoustical doors at sound control openings in full bed of sealant complying with requirements specified in Division 07 Section “Joint Sealants” forming a tight seal between threshold and surface to which set.
- H. Anchor all components firmly into position and use anchoring devices furnished with the hardware item, unless otherwise specified.
- I. Do not install surface mounted items until finishes have been completed on substrates involved. Set unit level, plumb and true to line location. Adjust and reinforce attachment substrate as necessary for proper installation and operation.

- J. Power Supplies: locate power supplies as indicated and if not indicated on the plans above accessible ceilings on secure side of doors. Verify locations with Architect.

3.03 FIELD QUALITY CONTROL

- A. Material supplier to schedule final walk through to inspect hardware installation ten (10) business days before final acceptance of Owner. Material supplier will provide a written report detailing discrepancies of each opening to General Contractor within seven (7) calendar days of walk through.

3.04 ADJUSTMENT, CLEANING, AND DEMONSTRATING

- A. Adjustment: Adjust and check each opening to ensure proper operation of each item of finish hardware. Replace items that cannot be adjusted to operate freely and smoothly or as intended for application at no cost to Owner.
- B. Cleaning: Clean adjacent surfaces soiled by hardware installation. Clean finish hardware per manufacturer's instructions after final adjustments have been made. Replace items that cannot be cleaned to manufacturer's level of finish quality at no cost to Owner.
- C. Conduct a training class for building maintenance personnel demonstrating the adjustment, operation of mechanical and electrical hardware. Special tools for finish hardware to be turned over and explained usage at the meeting.

3.05 PROTECTION

- A. Leave manufacturer's protective film intact and provide proper protection for all other finish hardware items that do not have protective material from the manufacture until Owner accepts project as complete.

3.06 HARDWARE SET SCHEDULE

- A. Intent of Hardware Groups
1. Should items of hardware not specified be required for completion of the Work, furnish such items of type and quality comparable to adjacent hardware and appropriate for service required.
 2. Where items of hardware aren't correctly specified and are required for completion of the Work, a written statement of such omission, error, or other discrepancy is required to be submitted to Architect, prior to date specified for receipt of bids for clarification by addendum; or, furnish such items in the type and quality established by this specification, and appropriate to the service intended.
- B. Guide: Door hardware items have been placed in sets which are intended to be a guide of design, grade, quality, function, operation, performance, exposure, and like characteristics of door hardware, and may not be complete. Provide door hardware required to make each set complete and operational.
- C. Hardware schedule does not reflect handing, backset, method of fastening, and like characteristics of door hardware and door operation.
- D. Review door hardware sets with door types, frames, sizes and details on drawings. Verify suitability and adaptability of items specified in relation to details and surrounding conditions.

3.07 HARDWARE SCHEDULE

Hardware Sets

SET #1 Classrooms

Doors: 106, 107, 108, 112, 113, 114

3 Hinges	BB1279 4 1/2 X 4 1/2	US26D	HA
1 Classroom Security Intruder	28-63-10G38-LL	US26D	SA
1 Door Closer	5100 MLT ALM	689	HA
1 Kick Plate	190S 10" x 2" LDW	US32D	HA
1 Wall Stop	230W	US26D	HA
3 Silencers	307D		HA

SET #2 Instrument Storage

Doors: 109, 110

6 Hinges	BB1279 4 1/2 x 4 1/2	US26D	HA
2 Flushbolt	282D	US26D	HA
1 Dustproof Strike	280X	US26D	HA
1 Classroom	28-63-10G37-LL	US26D	HA
2 Door Closer Hold-Open	5100-PAR-HDHOS ALM	689	HA
2 Kick Plate	190S 10" x 34"	US32D	HA
2 Wall Stop	230W	US26D	HA
2 Silencers	307D		HA

SET #3 Exterior

Doors: 105

2 Continuous Hinge	780-224HD 83" CLR	ALM	HA
2 Rim Exit Device	AD 19-43-63-8884 F ETL TB	32D	SA
1 Mullion	63-L980A	USP	SA
2 Closer	5100-PAR-HDCS ALM	689	HA
2 Bracket	5111 ALM	689	HA
2 Blade Stop Spacer	5113 ALM	689	HA
1 Gasketing	By Frame Mfr.		
2 Meeting Stiles	By Frame Mfr.		
2 Door Bottom	770S VINYL 36"	MIL	HA
1 Threshold	520S VINYL 72"	MIL	HA

**Davis Elementary School
Trenton, GA**

**DOOR HARDWARE
SECTION 08 71 00**

Addendum 1

SET #4 N/A

SET #5 N/A

SET #6 N/A

SET #7 Mechanical, Janitor

Doors: 116, 117, 119

3 Hinge	BB1279 4 1/2 X 4 1/2	US26D	HA
1 Storeroom	28-63-10GO4-LL	US26D	SA
1 Closer	5100 MLT ALM	689	HA
1 Wall Stop	230W	US26D	HA
1 Kick Plate	190S 10" x 34"	US32D	HA
1 Smoke Seal	736S 204"	S	HA

SET #8 Staff Restroom

Door: 111

3 Hinge	BB1279 4 1/2 X 4 1/2	US26D	HA
1 Privacy	28-10U65-LL	US26D	SA
1 Closer	5100 MLT ALM	689	HA
1 Wall Stop	234W	US26D	HA
1 Kick Plate	190S 10" x 34"	US32D	HA
1 Mop Plate	190S 4" x 35"	US32D	HA
3 Silencers	307D		HA

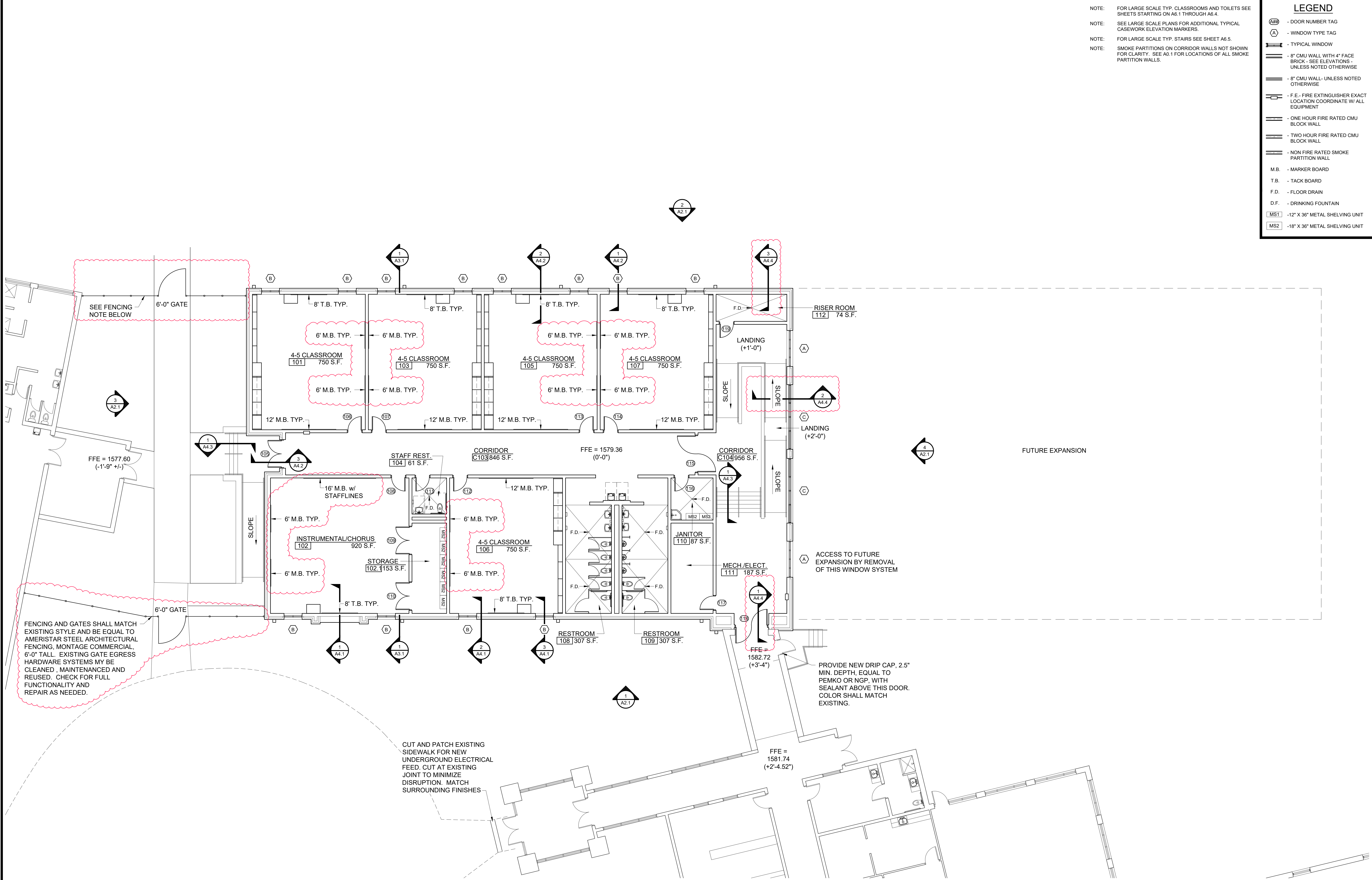
SET #9 Double-Egress Corridor

Door: 115, 118

6 HW Hinge	BB1168 5 x 4 1/2	US26D	HA
2 Less Bottom Rod Device	12-19-43-NB8710 G TB	32D	SA
2 Closer	5100-MLT ALM	689	HA
2 Magnetic Hold-Open	380F 24V120V LS	ALM	HA
1 Gasketing	736S 264"	CHA	HA
2 Meeting Stiles	872S NEOPRENE 84" CLR	ALM	HA

Note: Magnetic Hold-Open devices are tied into the fire alarm system to release upon activation.

END OF SECTION



NOTE: FOR LARGE SCALE TYP. CLASSROOMS AND TOILETS SEE SHEETS STARTING ON A6.1 THROUGH A6.4.

NOTE: SEE LARGE SCALE PLANS FOR ADDITIONAL TYPICAL CASEWORK ELEVATION MARKERS.

NOTE: FOR LARGE SCALE TYP. STAIRS SEE SHEET A6.5.

NOTE: SMOKE PARTITIONS ON CORRIDOR WALLS NOT SHOWN FOR CLARITY. SEE A0.1 FOR LOCATIONS OF ALL SMOKE PARTITION WALLS.

LEGEND	
	- DOOR NUMBER TAG
	- WINDOW TYPE TAG
	- TYPICAL WINDOW
	- 8" CMU WALL WITH 4" FACE BRICK - SEE ELEVATIONS UNLESS NOTED OTHERWISE
	- 8" CMU WALL- UNLESS NOTED OTHERWISE
	- F.E. - FIRE EXTINGUISHER EXACT LOCATION COORDINATE W/ ALL EQUIPMENT
	- ONE HOUR FIRE RATED CMU BLOCK WALL
	- TWO HOUR FIRE RATED CMU BLOCK WALL
	- NON FIRE RATED SMOKE PARTITION WALL
M.B.	- MARKER BOARD
T.B.	- TACK BOARD
F.D.	- FLOOR DRAIN
D.F.	- DRINKING FOUNTAIN
MS1	-12" X 36" METAL SHELVING UNIT
MS2	-18" X 36" METAL SHELVING UNIT

PROJECT NUMBER
23-031

DATE
11/07/23

REVISIONS

NO. DATE

ADDENDUM #1

02/08/24

FACILITY CODE
641-0275

KRH ARCHITECTS INCORPORATED

855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

1 FLOOR PLAN

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

6 I.U. PROVIDED

20 STUDENTS PER I.U. X 6 I.U. = 120 STUDENTS

REQUIRED PLUMBING FIXTURES FOR 120 STUDENTS:
GIRLS- 2 WC, 2 LAV.
BOYS- 2 WC, 2 URINAL, 2 LAV.

PROVIDED:
GIRLS- 5 WC, 2 LAV.
BOYS- 2 WC, 3 URINAL, 2 LAV.

FOR CONSTRUCTION

A NEW CLASSROOM ADDITION FOR:
DAVIS ELEMENTARY SCHOOL
5491 HIGHWAY 301, TRENTON GA 30752
DADE COUNTY SCHOOLS

STATE OF GEORGIA
KIMBERLY HARRIS
REGISTERED ARCHITECT

SHEET INDEX
FLOOR PLAN

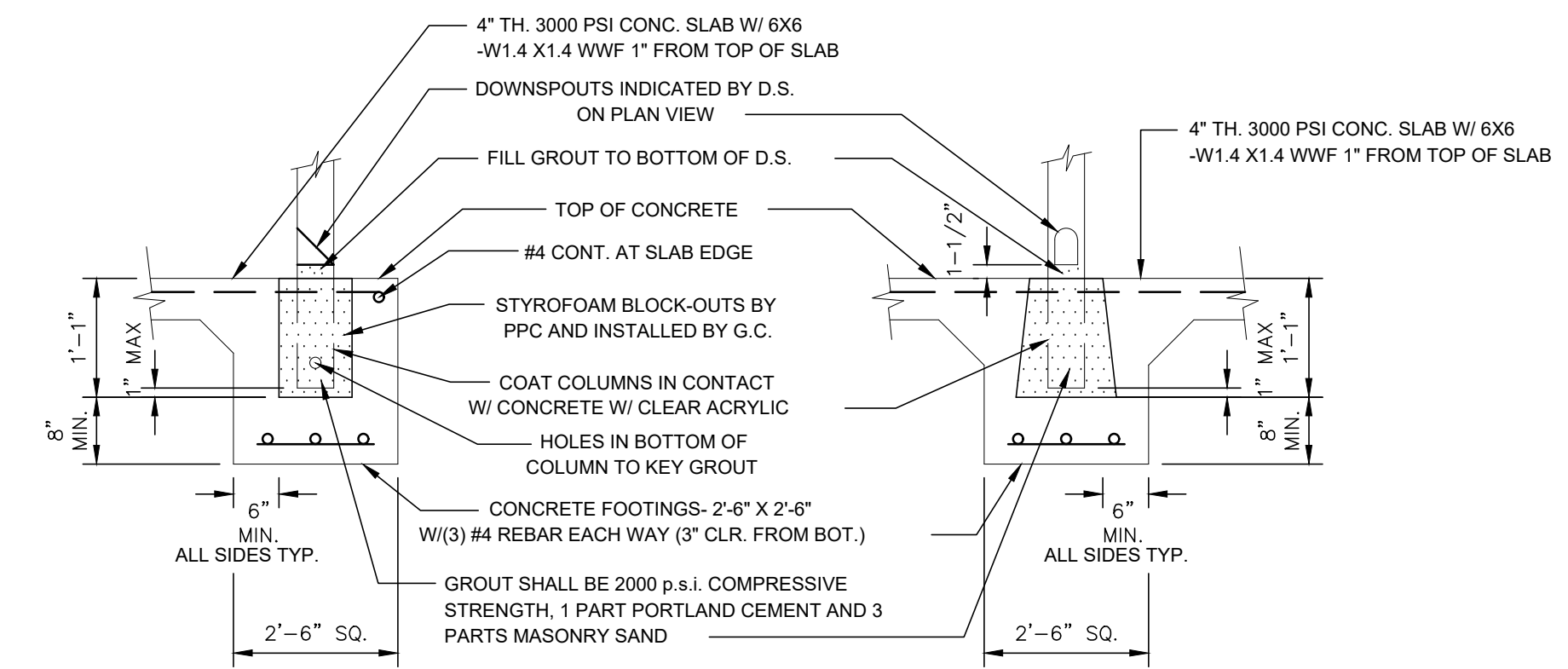
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A1.1

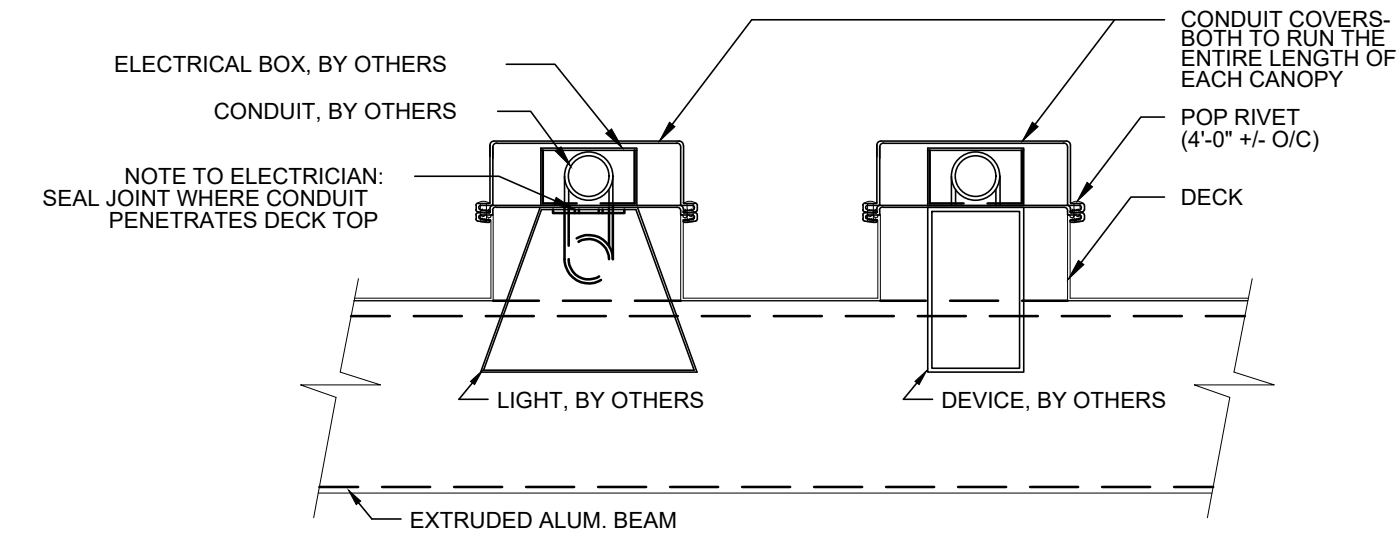
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LEGEND

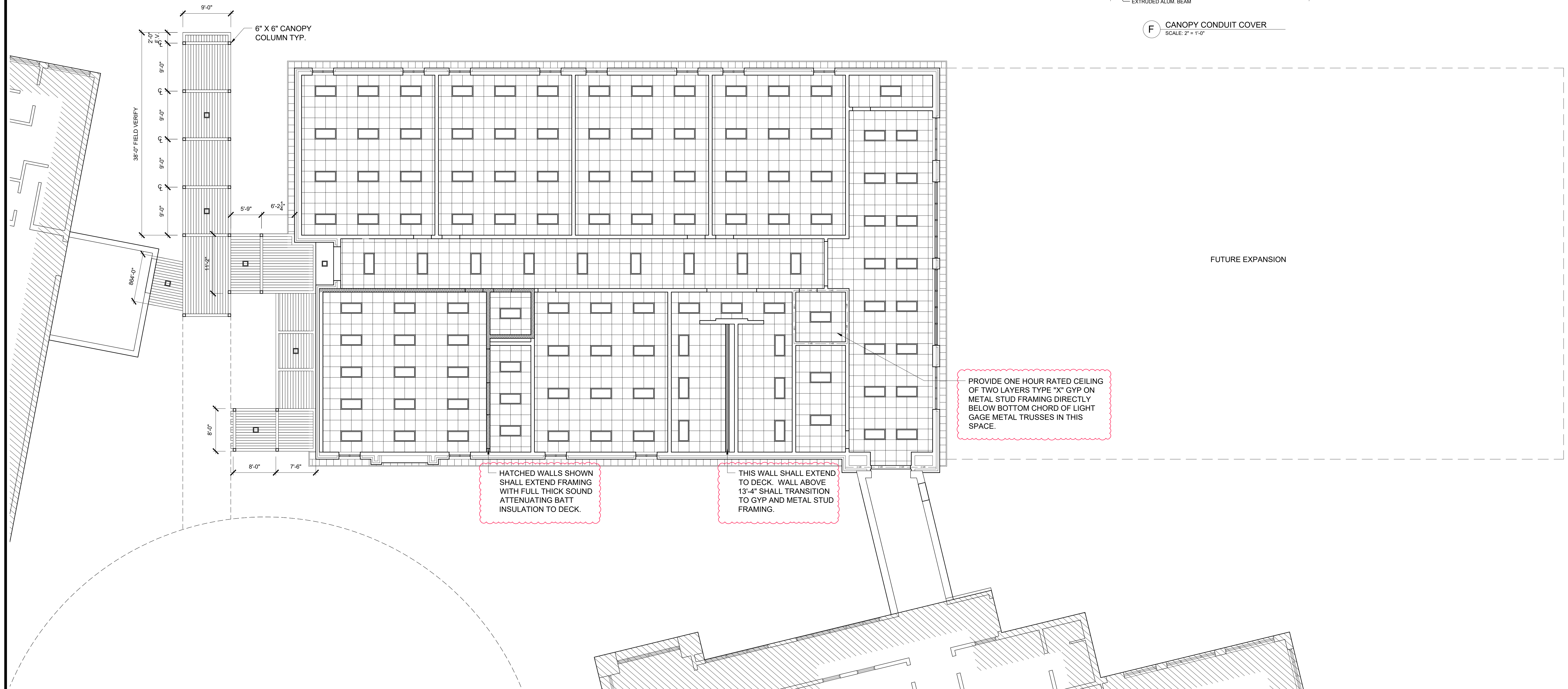
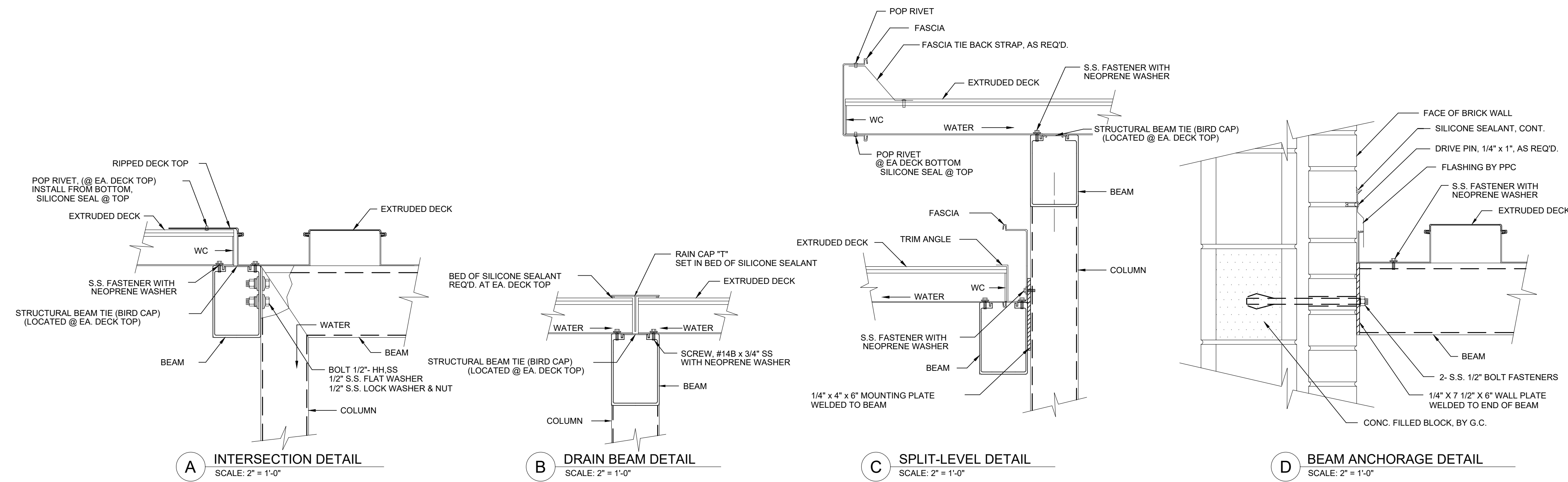
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- 8" CMU WALL - UNLESS NOTED OTHERWISE
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- F.D. - FLOOR DRAIN
- D.F. - DRINKING FOUNTAIN
- MST - 12" X 36" METAL SHELVING UNIT
- MS2 - 18" X 36" METAL SHELVING UNIT



E COLUMN/FOOTING DETAIL
SCALE: 1" = 1'-0"



F CANOPY CONDUIT COVER
SCALE: 2" = 1'-0"



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

MATERIALS LEGEND

1. UTILITY BRICK
2. METAL CANOPY SYSTEM
3. PRECAST CONCRETE SILL
4. SPLIT FACE BLOCK
5. RECLAIMED RUBBLE STONE
6. EXISTING CANOPY SYSTEM
7. PREFINISHED METAL FASCIA
8. PREFINISHED METAL ROOFING
9. ALUMINUM STOREFRONT WINDOWS
10. PREFINISHED GUTTERS AND DOWNSPOUT
11. PAINTED METAL RAILING
12. UTILITY BRICK RECESSED COURSE
13. UTILITY BRICK ROWLOCK
14. EXISTING STONE MONUMENT SIGNS (VERIFY EXACT MOUNTING LOCATIONS PRIOR TO INSTALLATION)
15. PREFINISHED METAL PANELS

PROJECT NUMBER
23-031

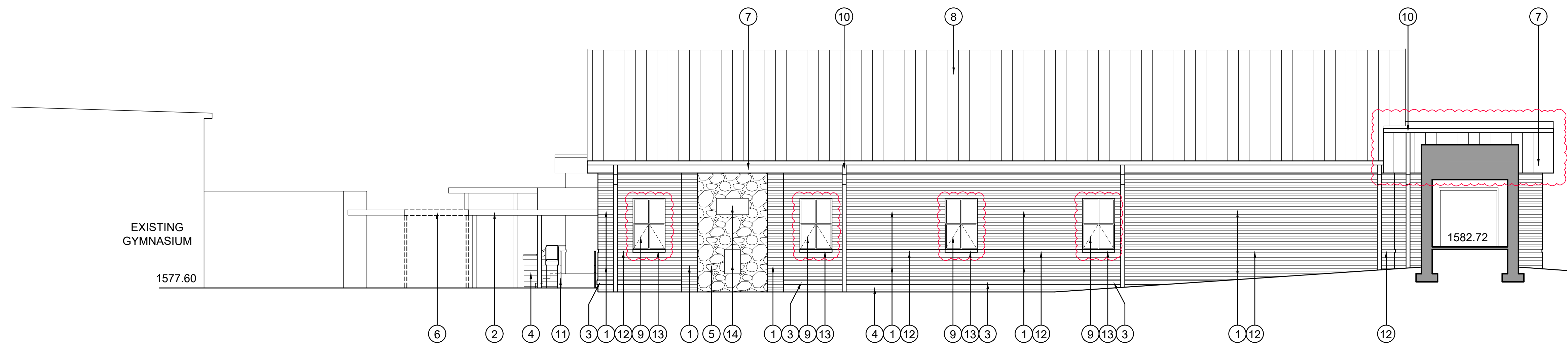
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REVISIONS
NO. DATE
ADDENDUM #1
02/08/24

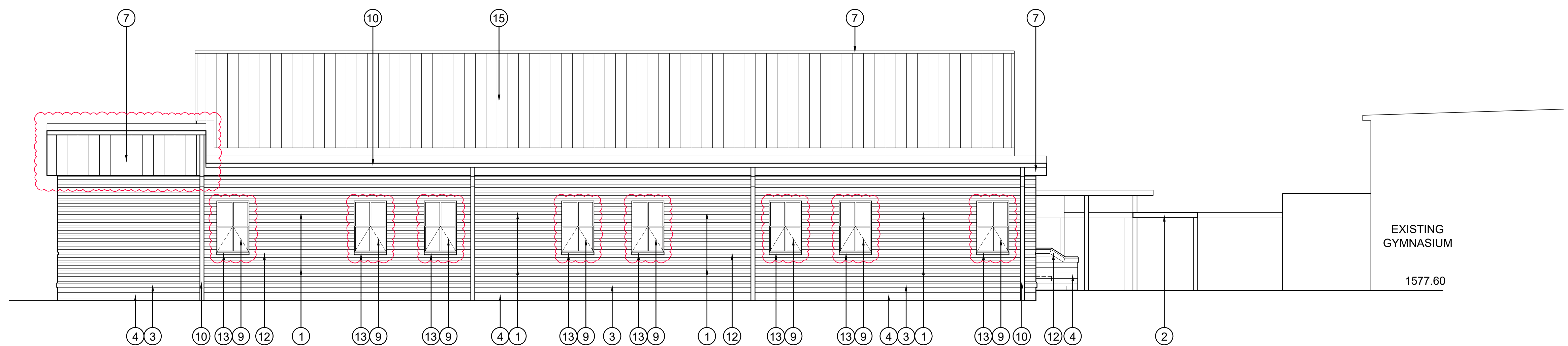
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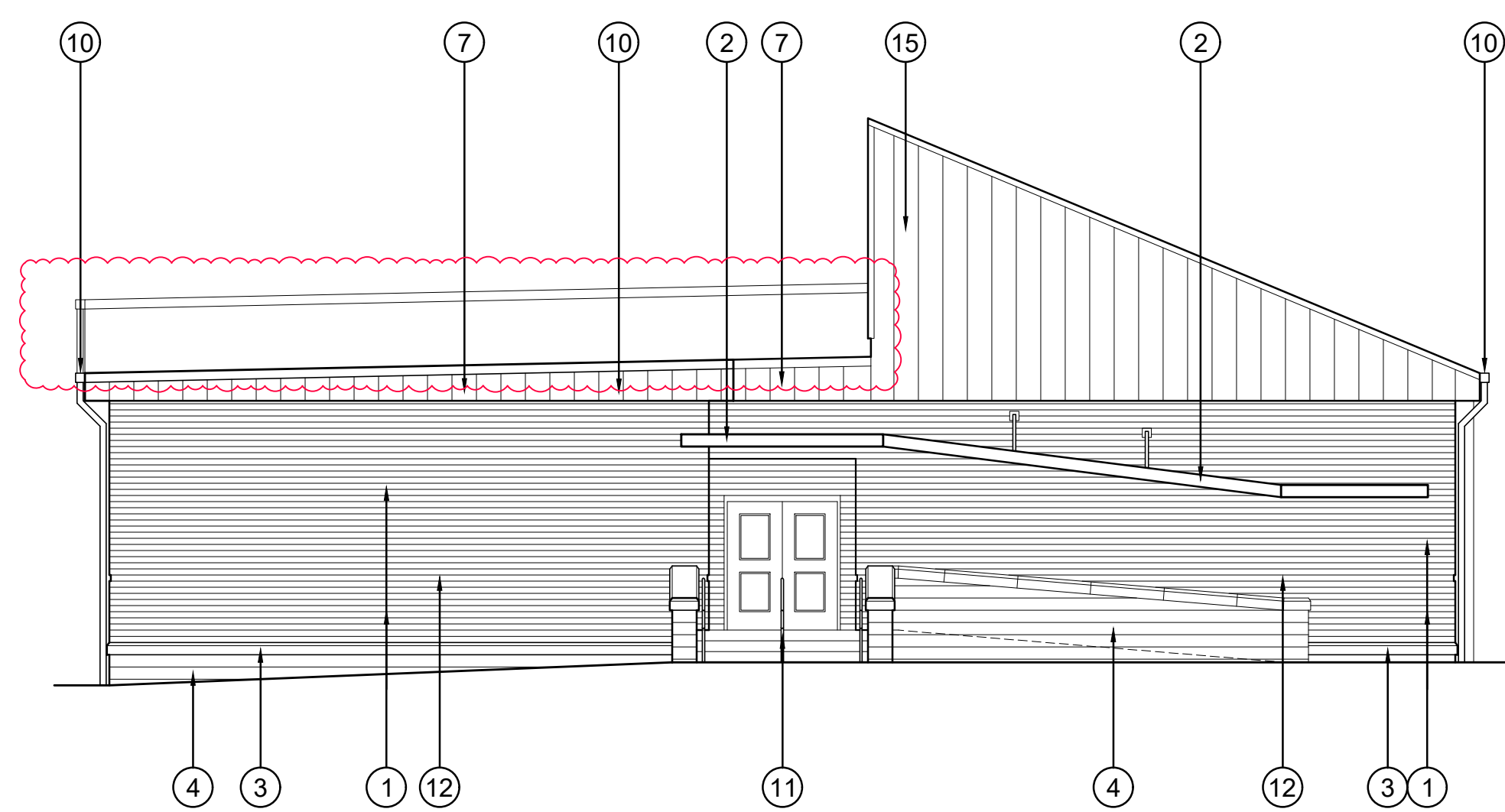
855 ABUTMENT ROAD
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DALTON, GA 30721
TEL. 706.529.5895



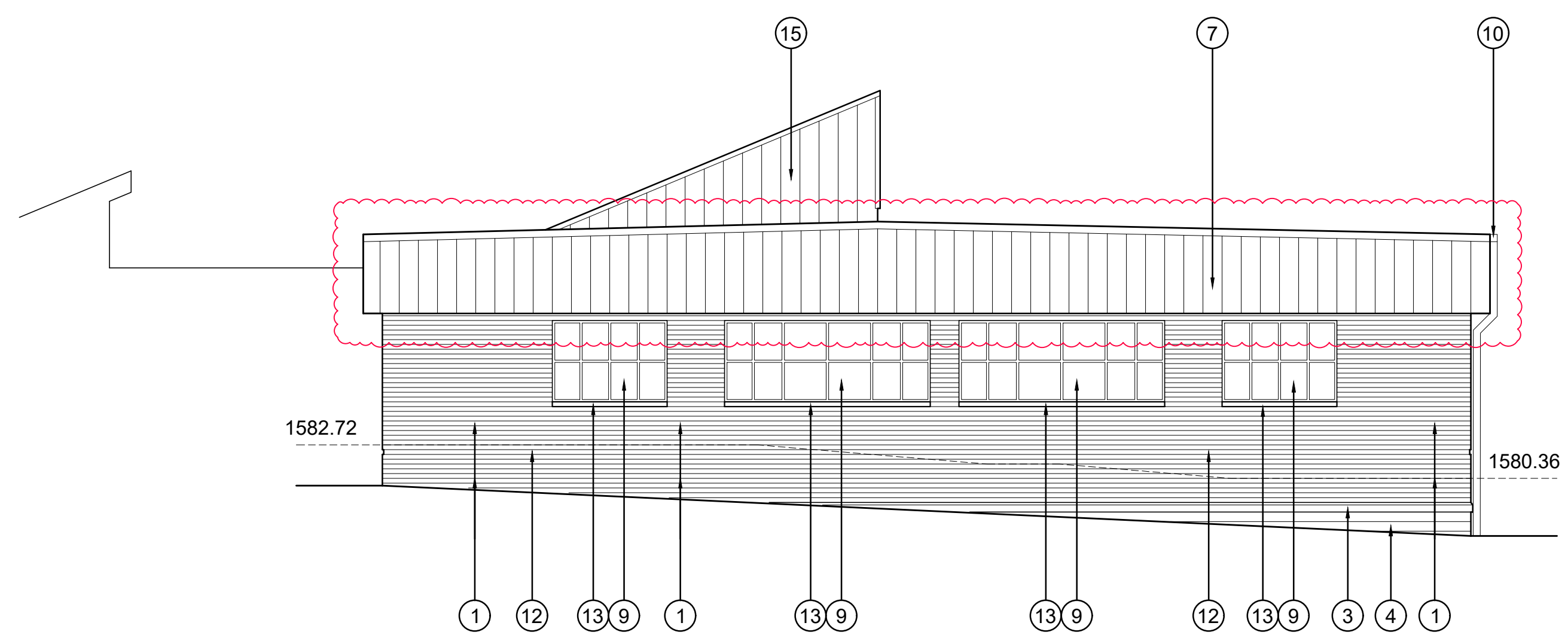
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2 EAST ELEVATION
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3 NORTH ELEVATION
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4 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"

A NEW CLASSROOM ADDITION FOR:
DAVIS ELEMENTARY SCHOOL
5491 HIGHWAY 301, TRENTON GA 30752
DADE COUNTY SCHOOLS

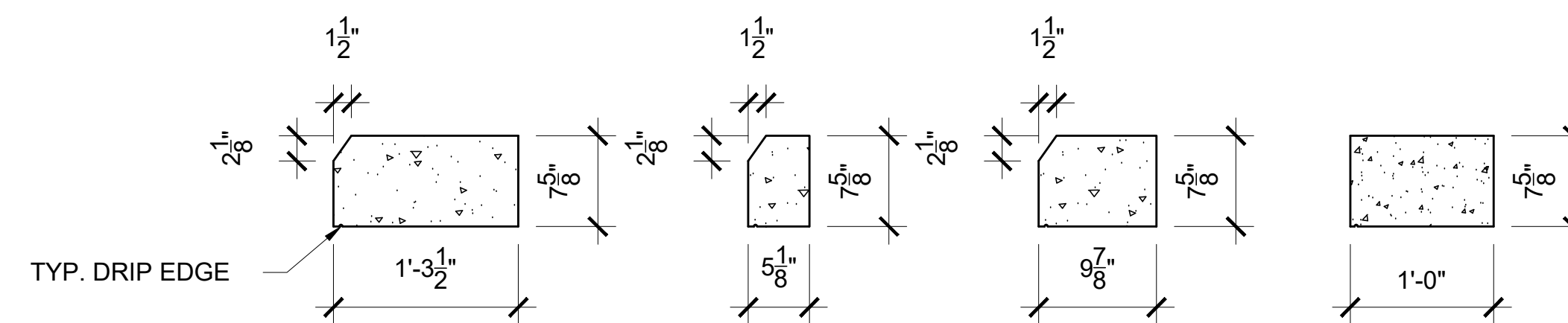


SHEET INDEX
ELEVATIONS

SHEET INDEX

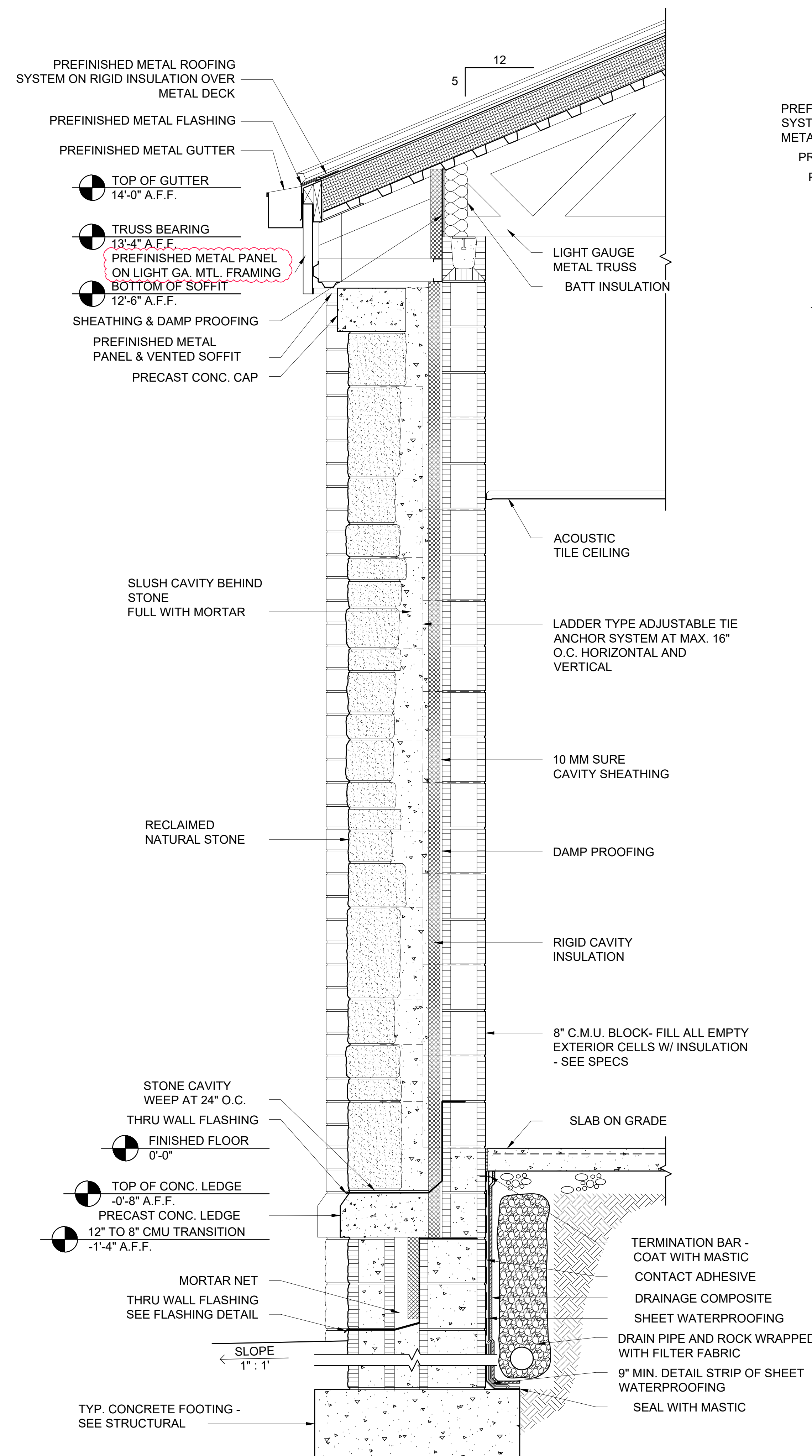
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FOR CONSTRUCTION



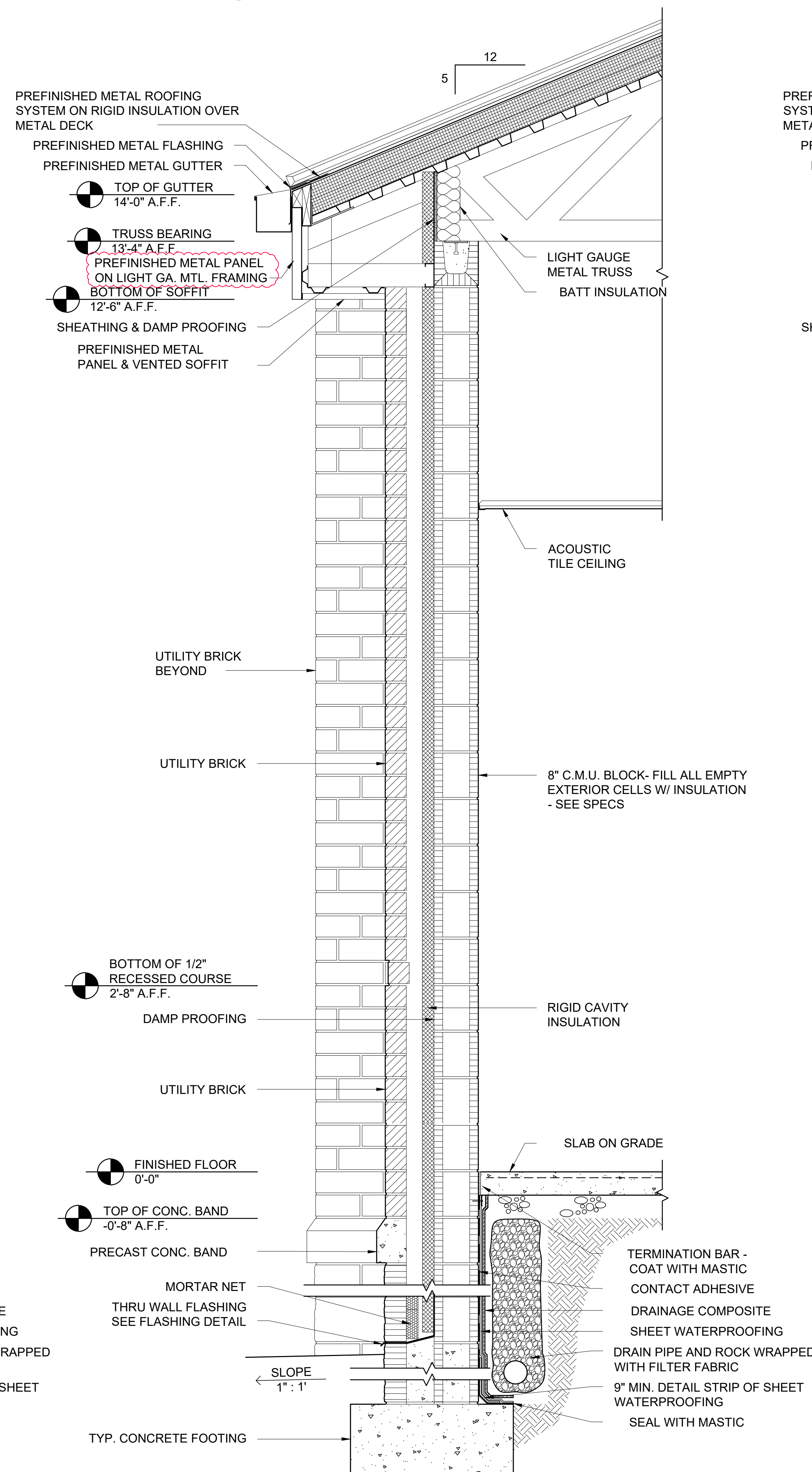
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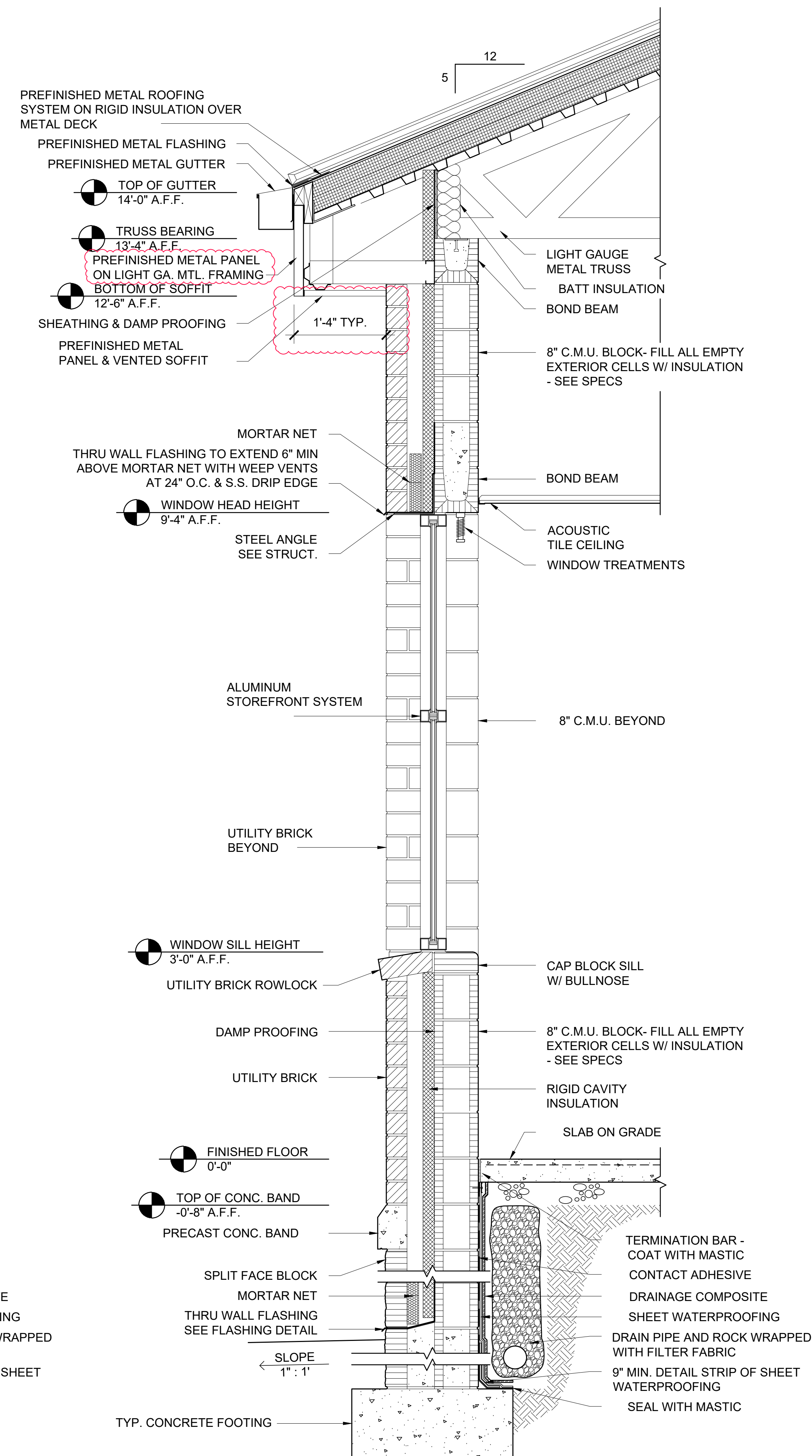
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2 WALL SECTION

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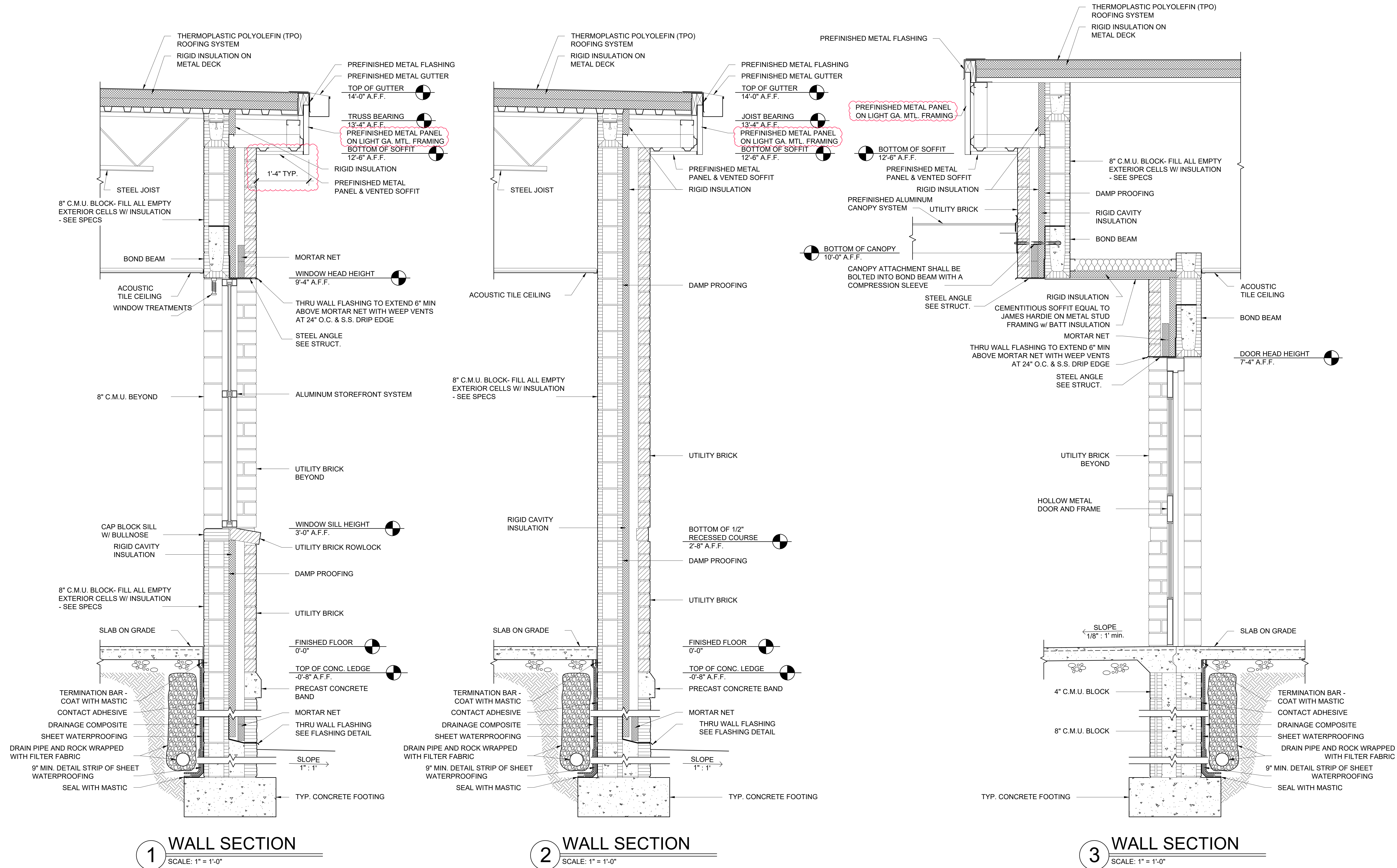


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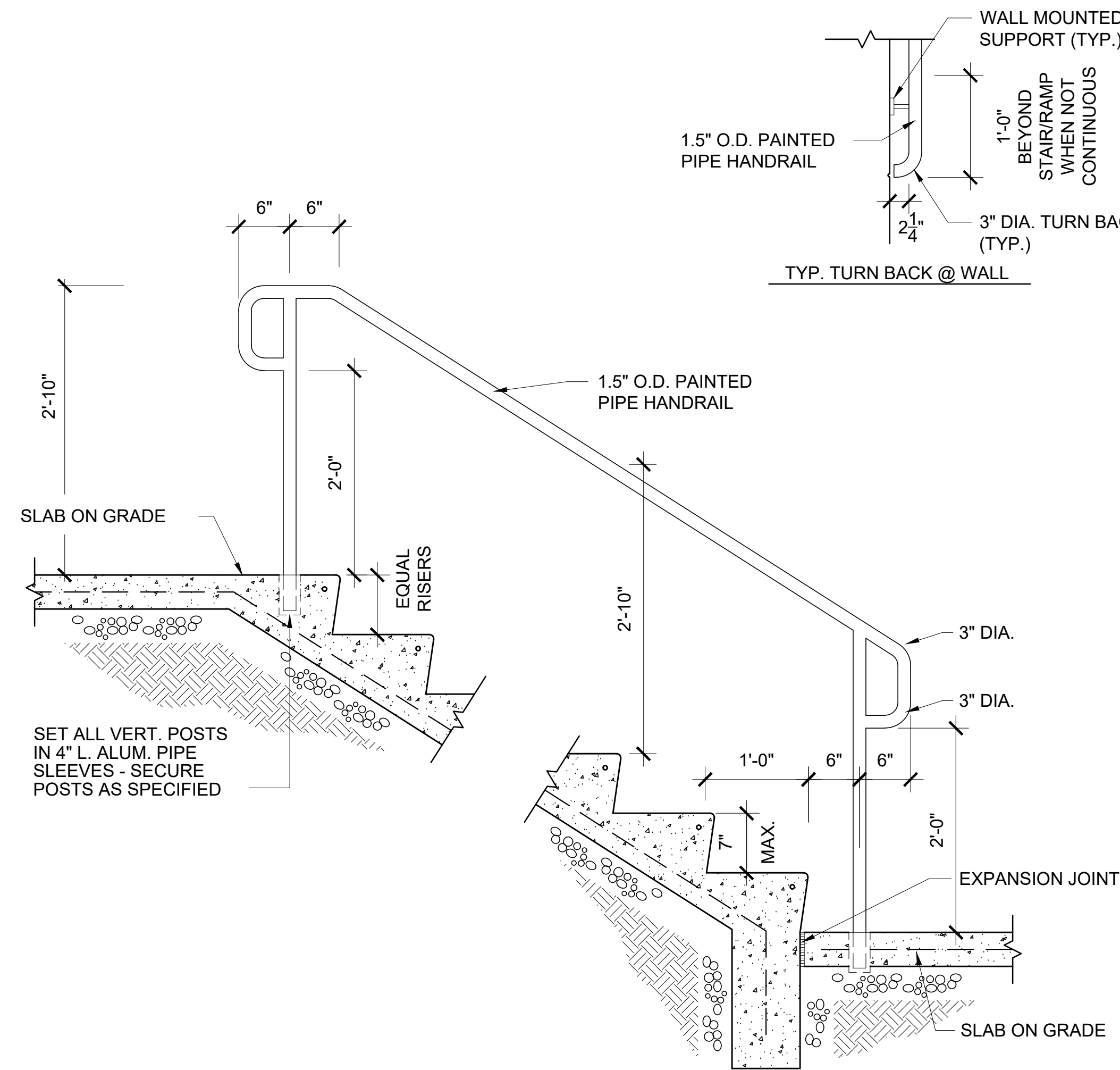
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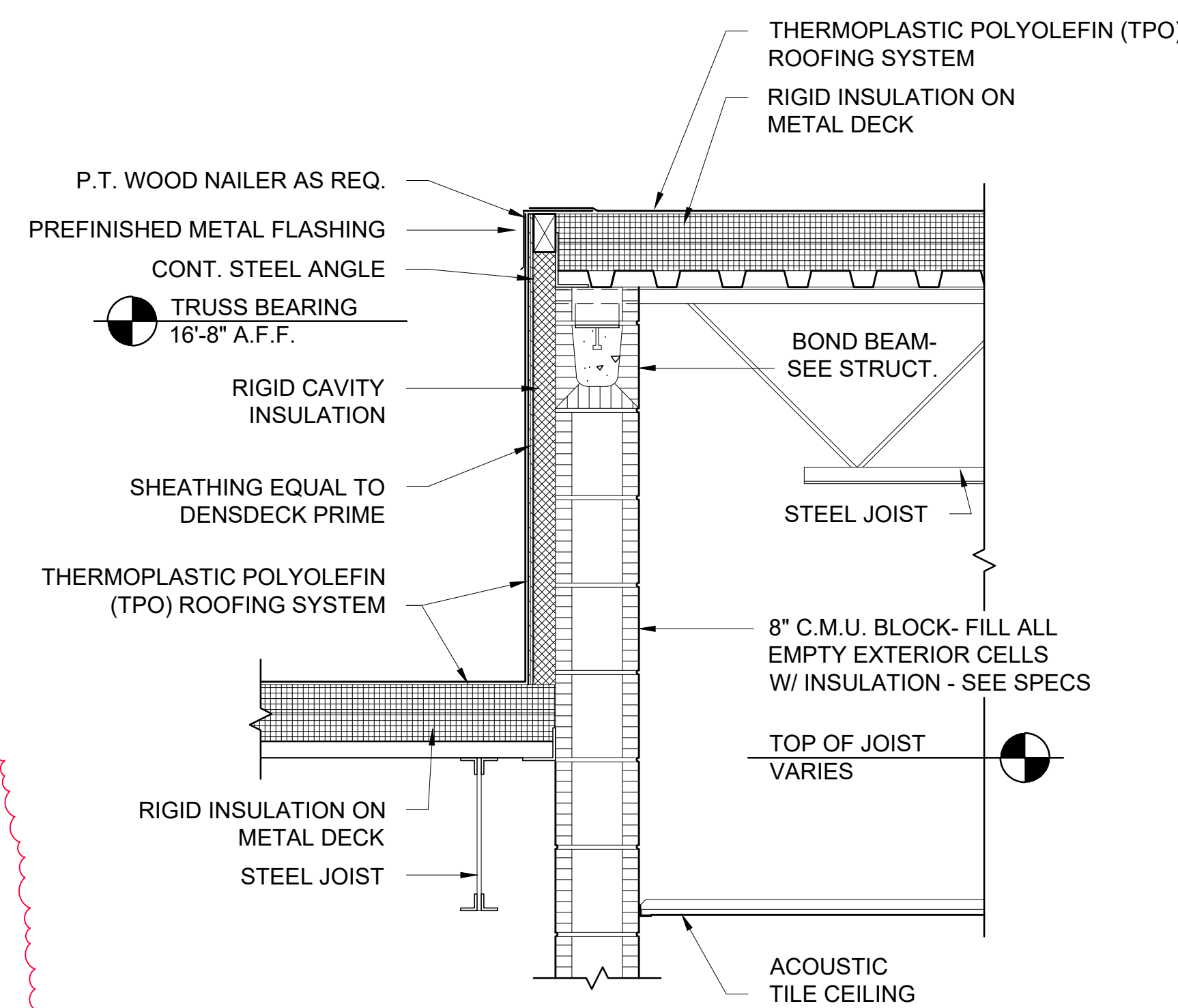
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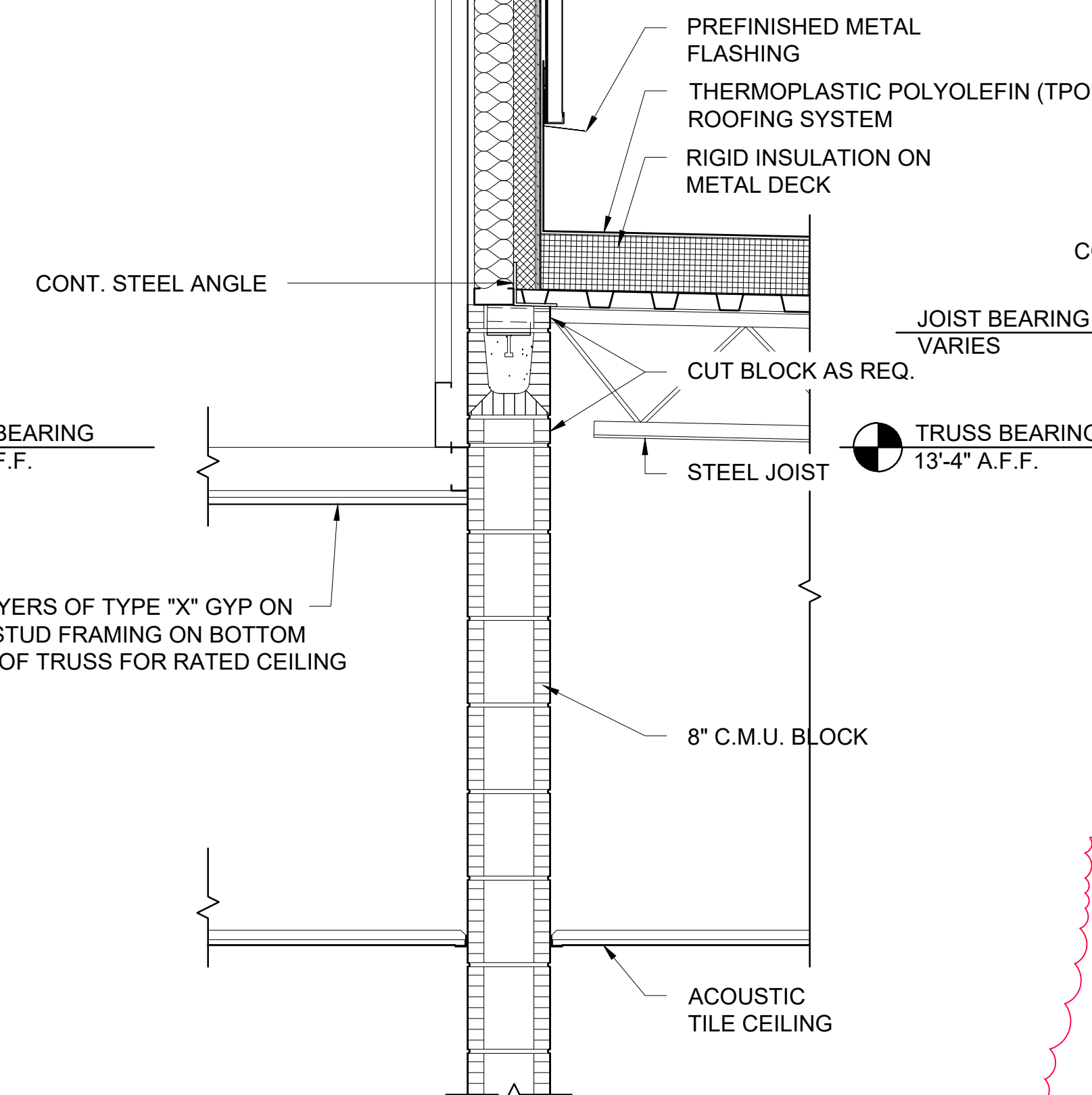
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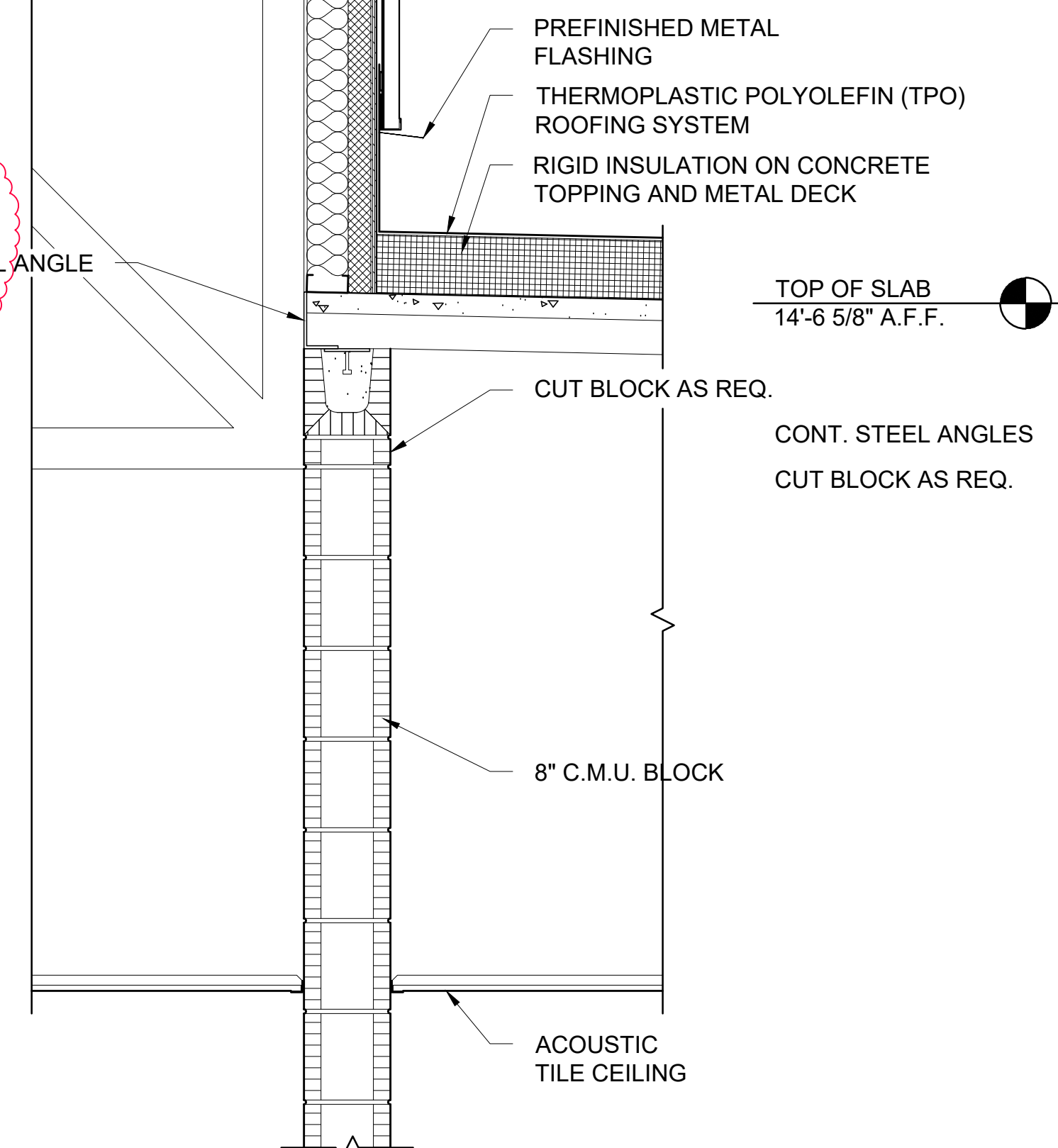
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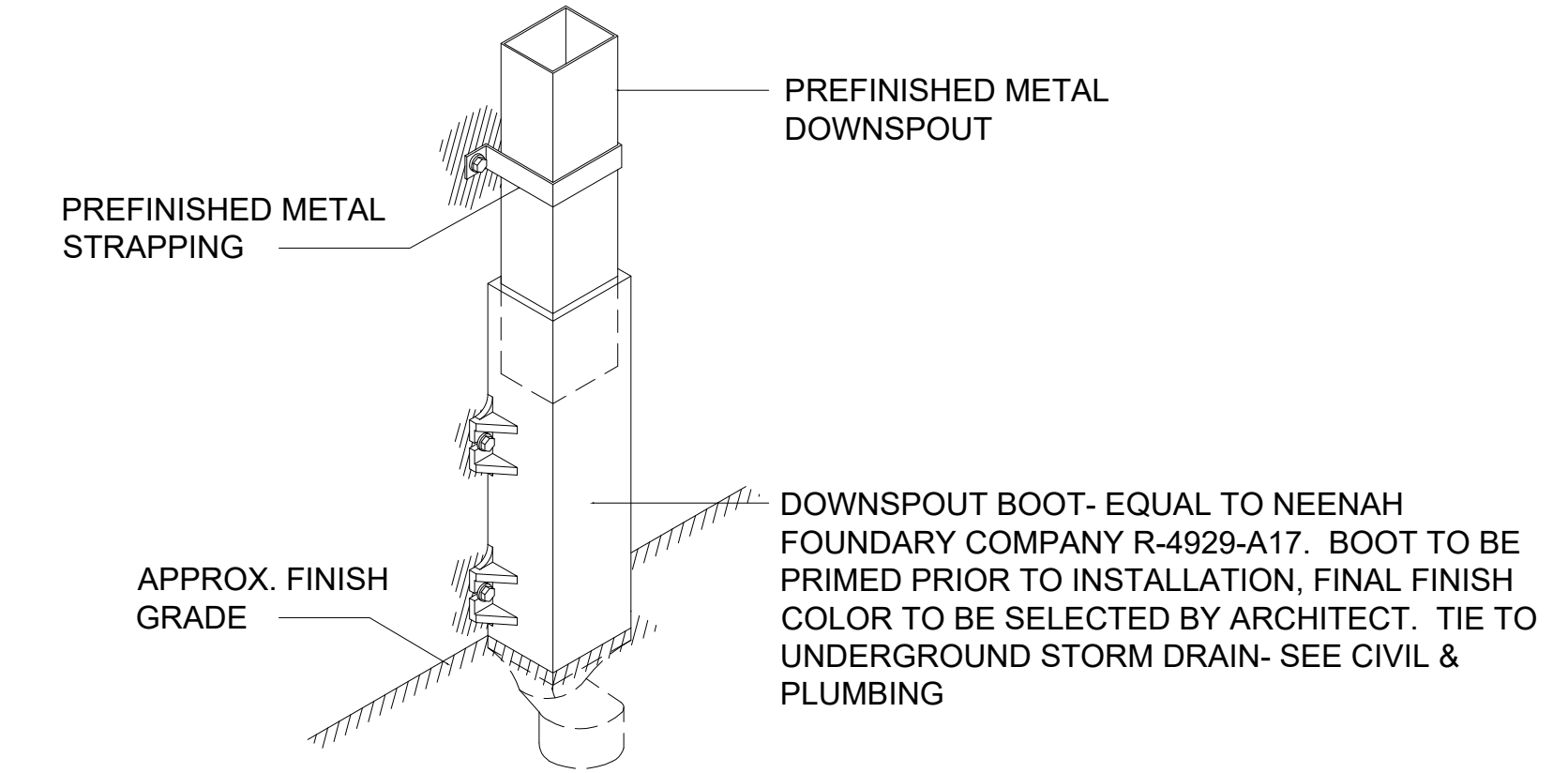
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4 WALL SECTION
SCALE: 1" = 1'-0"



5 WALL SECTION
SCALE: 1" = 1'-0"



2 TYPICAL DOWNSPOUT DETAIL
SCALE: NTS

PROJECT NUMBER
23-031

DATE
11/07/23

REVISIONS
NO. DATE
ADDENDUM #1
02/08/24

FACILITY CODE
641-0275

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INCORPORATED

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A NEW CLASSROOM ADDITION FOR:
DAVIS ELEMENTARY SCHOOL
5491 HIGHWAY 301, TRENTON GA 30752
DADE COUNTY SCHOOLS

STATE OF GEORGIA
REGISTERED ARCHITECT
KENNETH R. HARRIS
LICENSE NO. 34890

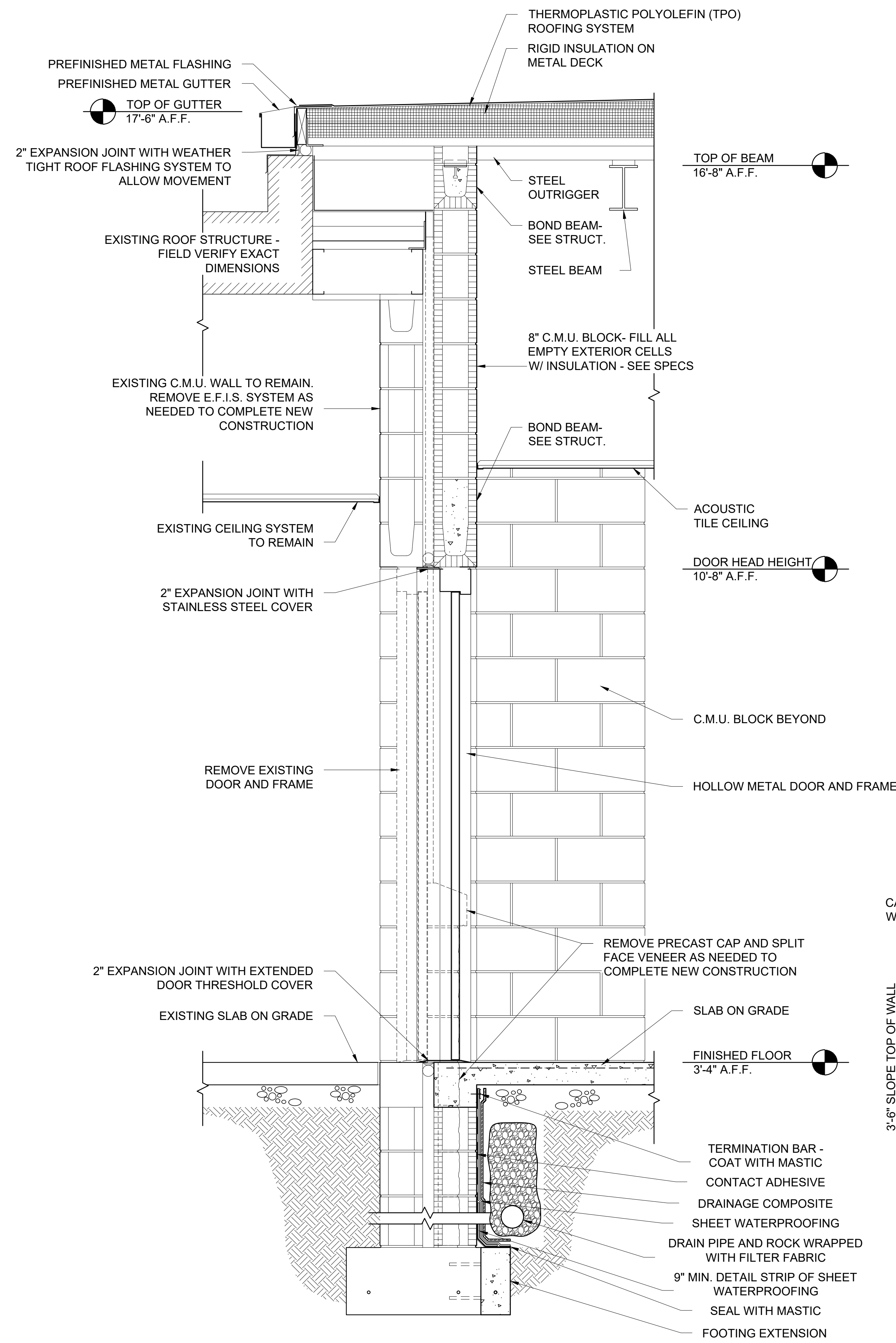
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WALL SECTIONS

SHEET INDEX

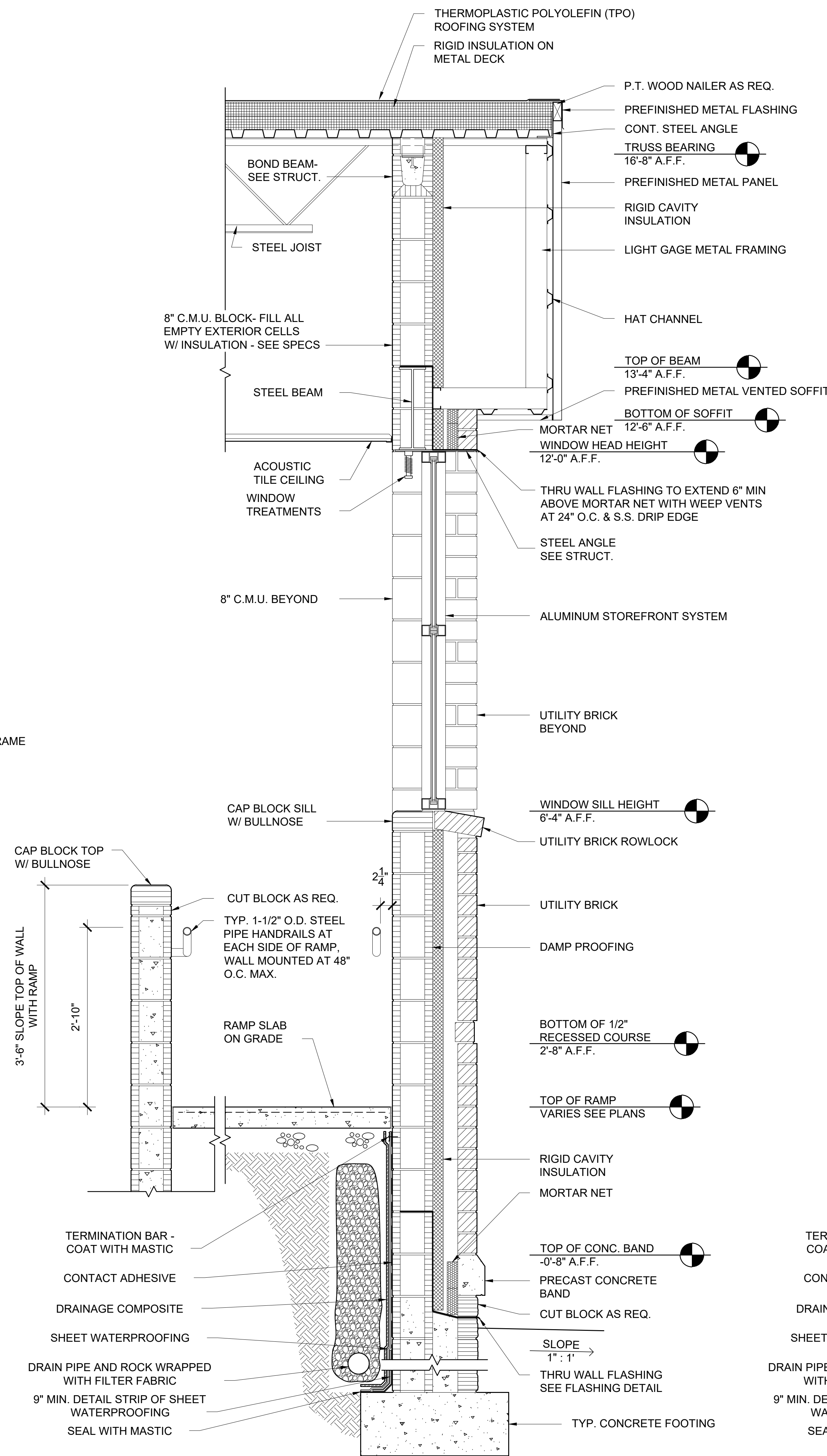
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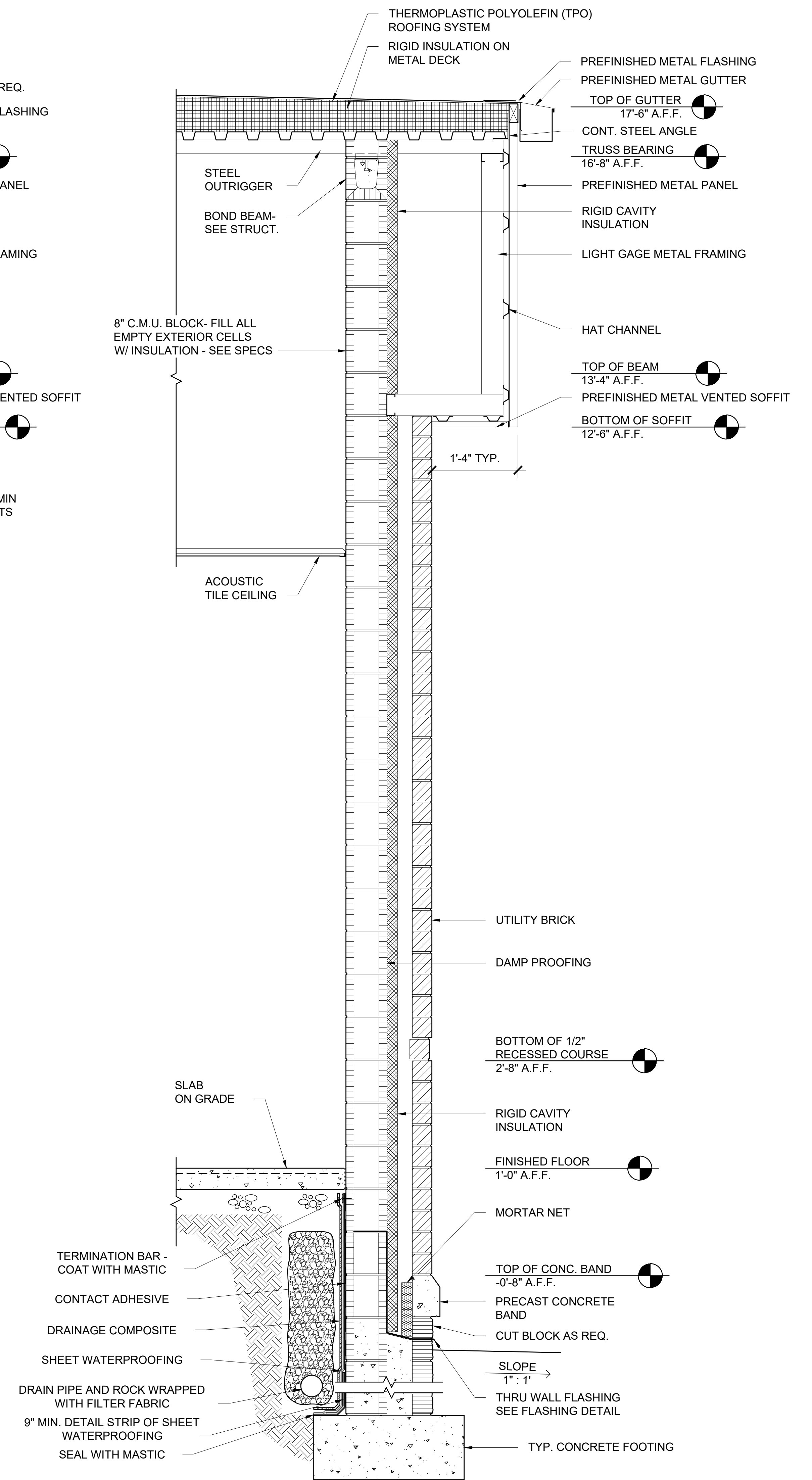
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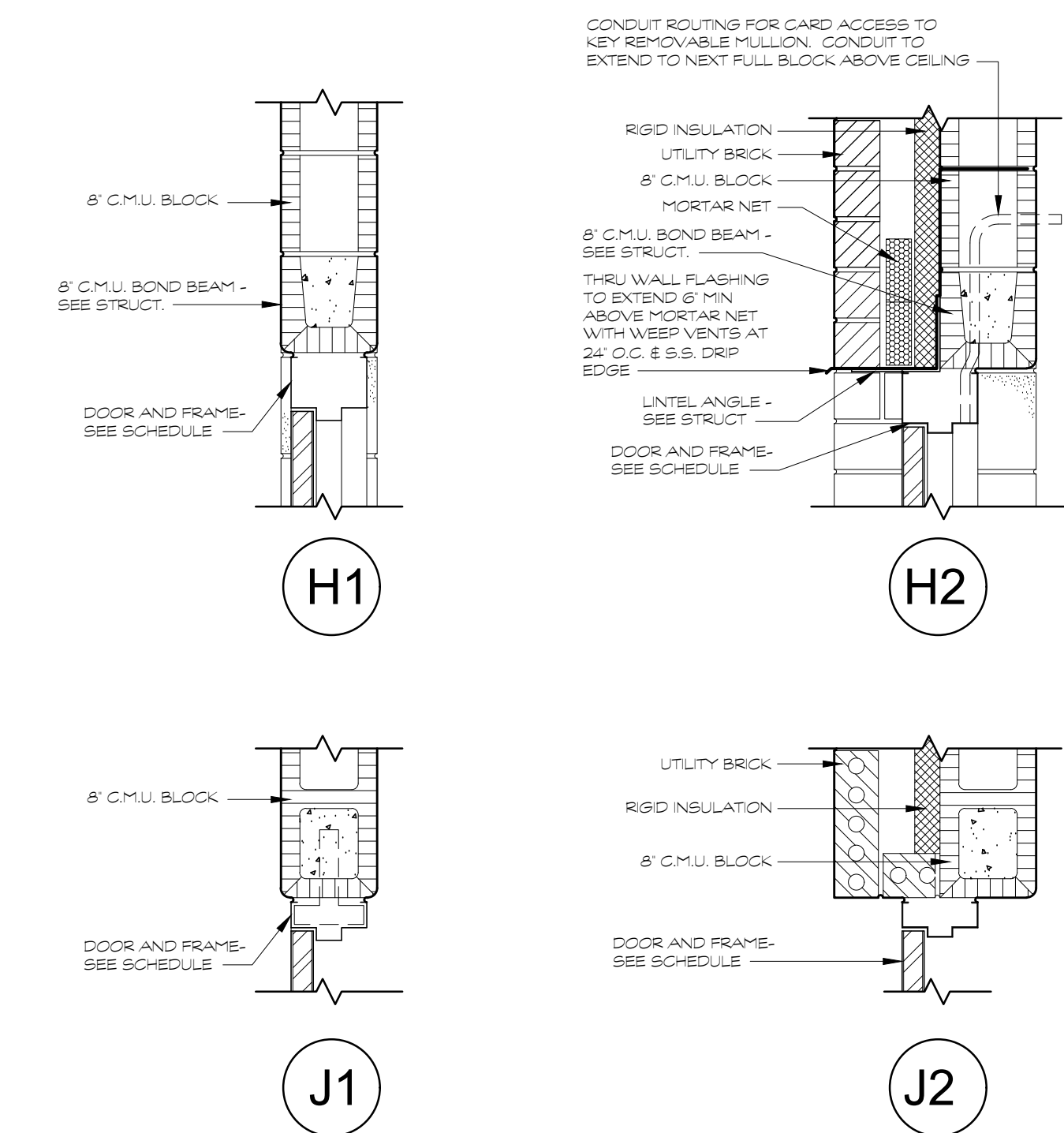
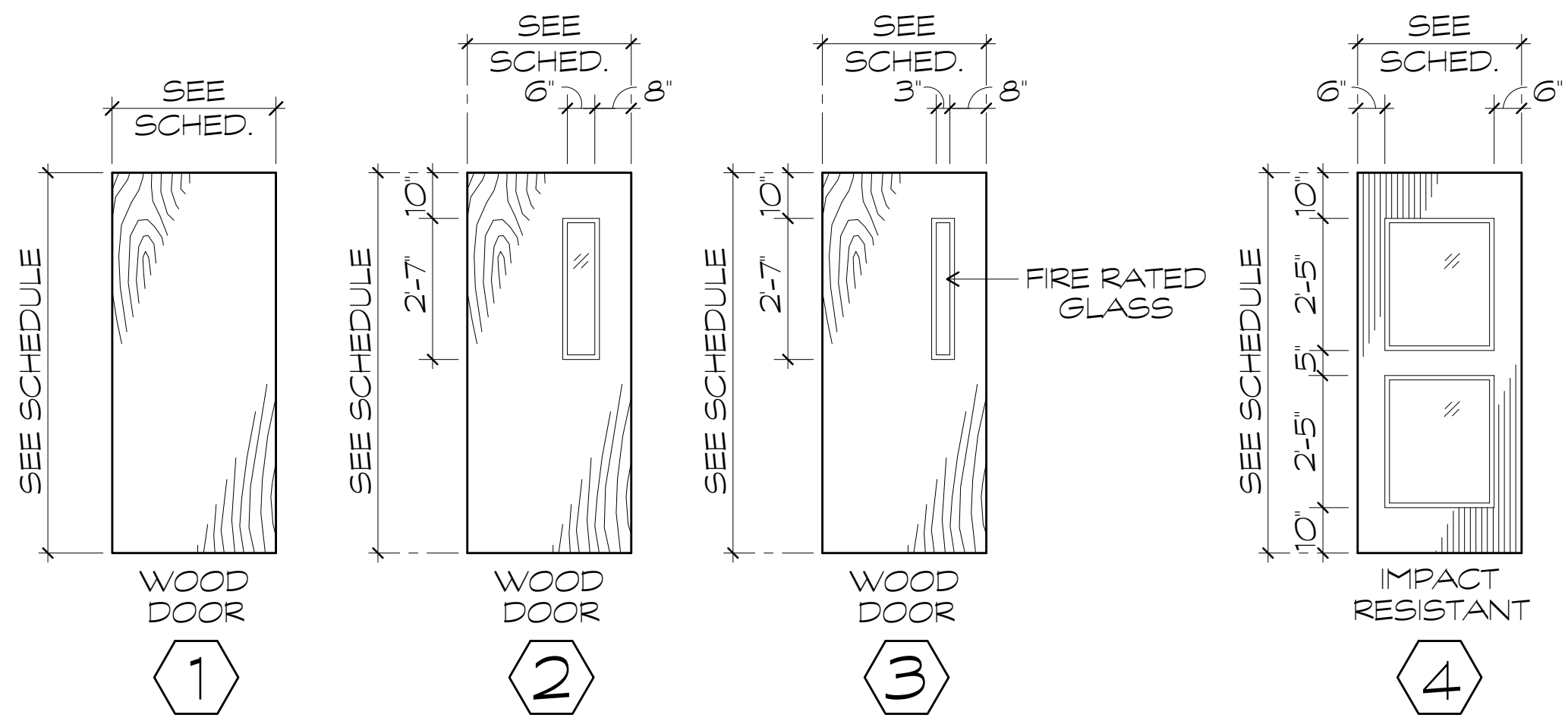
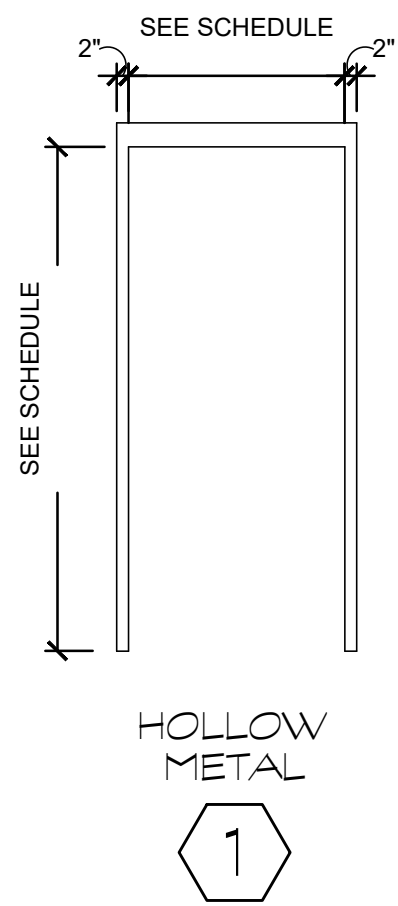
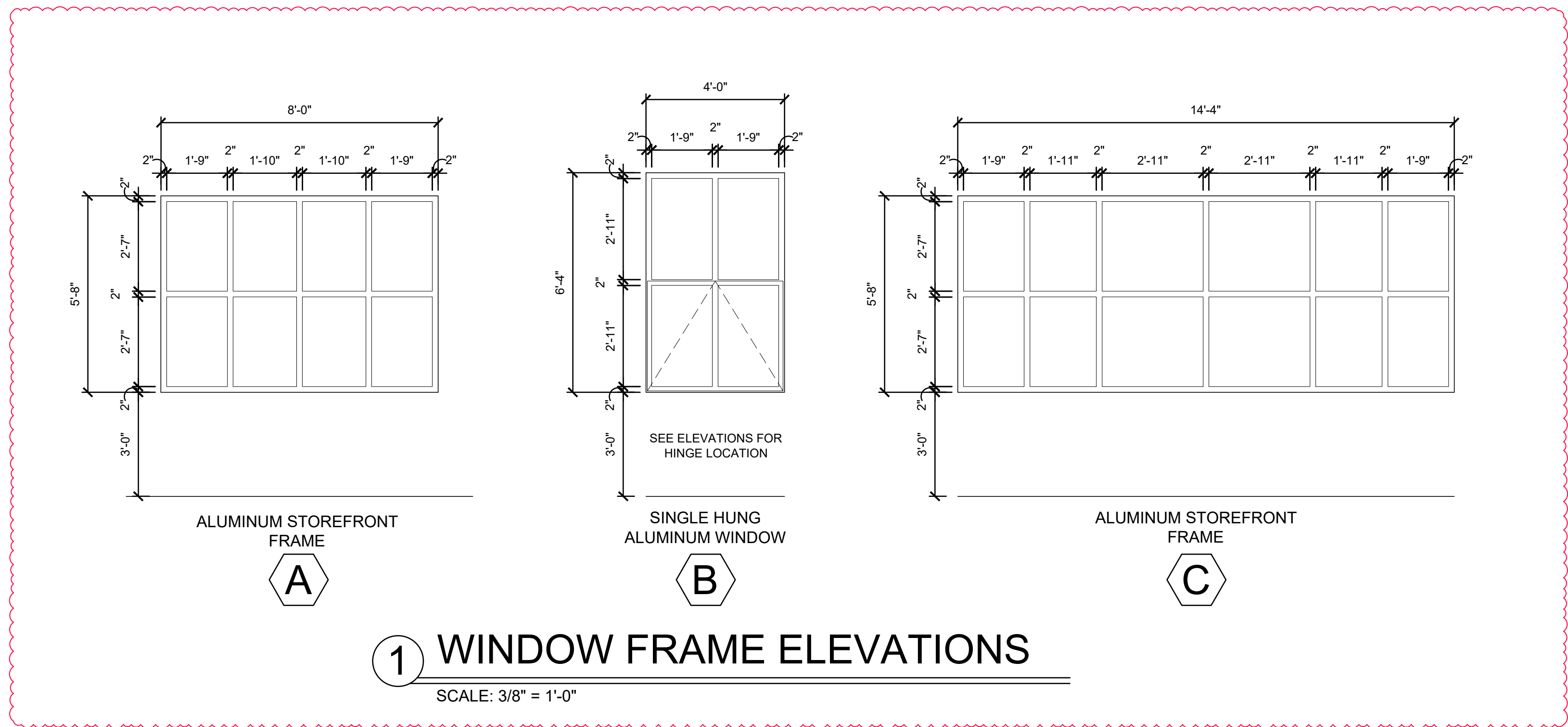


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SCALE: 1" = 1'-0"



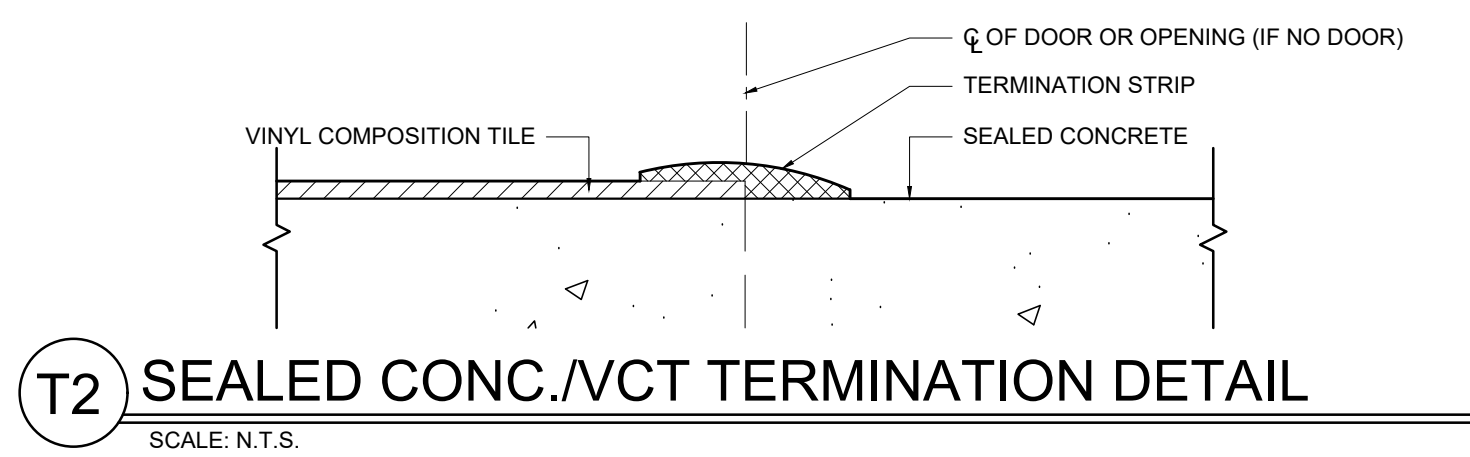
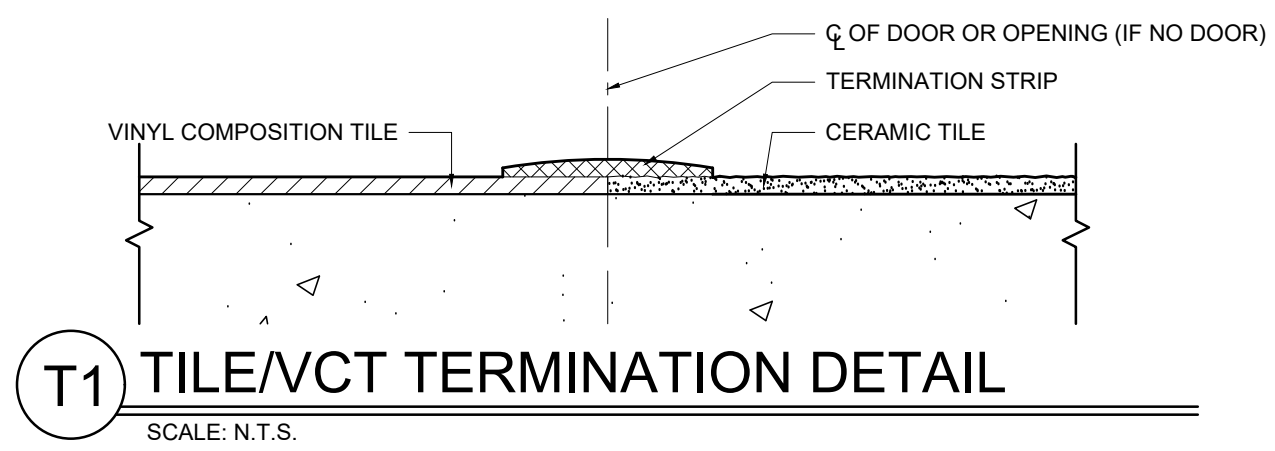
3 WALL SECTION
SCALE: 1" = 1'-0"

FOR CONSTRUCTION



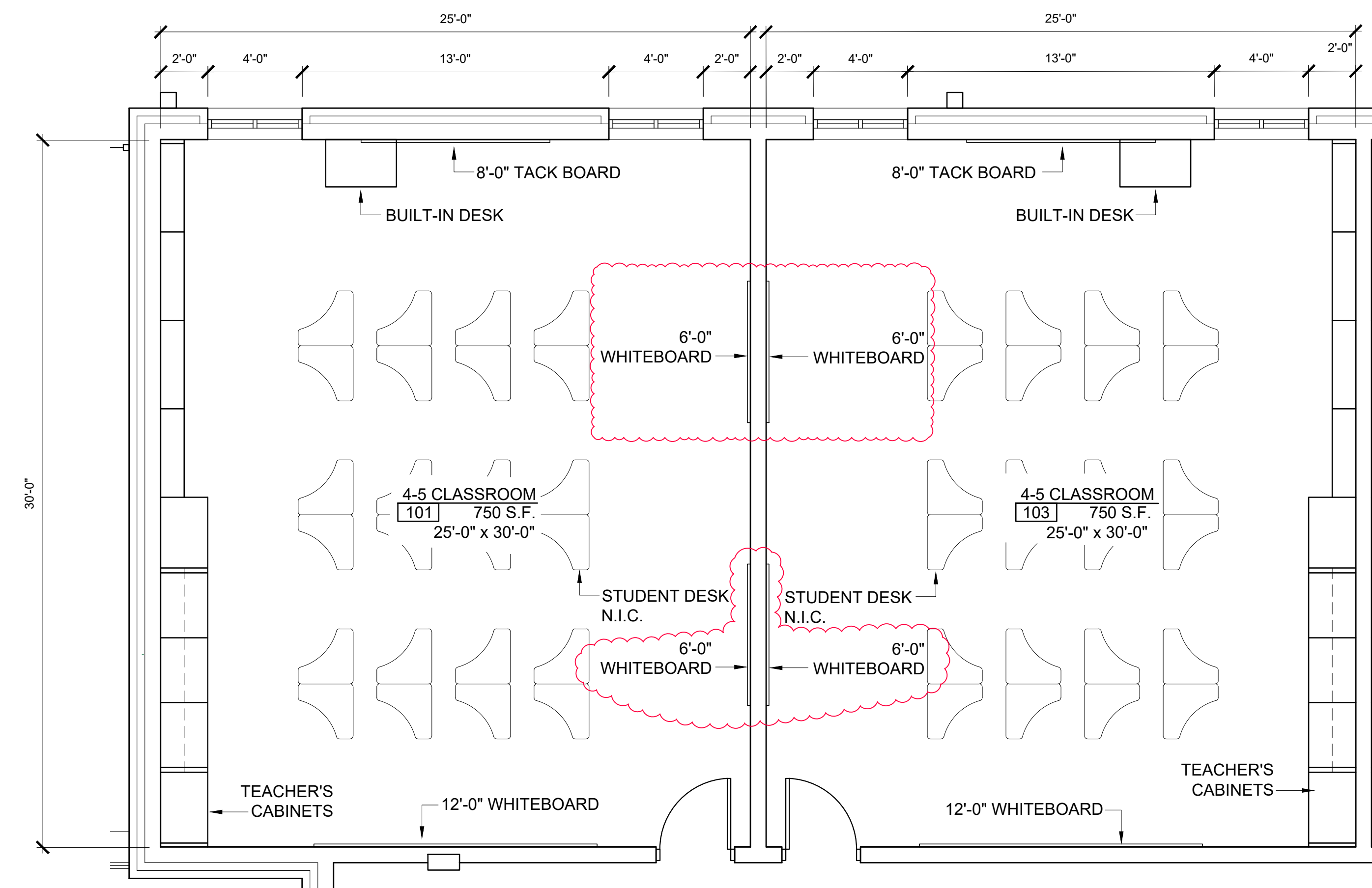
SCHEDULE of FINISHES											
ROOM NAME	NO.	FLOOR	BASE	WALLS	CEILING	CLG. HT.	REMARKS				
CORRIDOR	C103	X		X	X	X					
CORRIDOR	C104	X		X	X	X					
4-5 CLASSROOM	101	X		X	X	X					
INSTRUMENTAL/CHORUS	102	X		X	X	X					
STORAGE	102.1	X		X	X	X					
4-5 CLASSROOM	103	X		X	X	X					
STAFF RESTROOM	104	X		X	X	X					NOTE 1
4-5 CLASSROOM	105	X		X	X	X					
4-5 CLASSROOM	106	X		X	X	X					
4-5 CLASSROOM	107	X		X	X	X					
RESTROOM	108	X		X	X	X					NOTE 1
RESTROOM	109	X		X	X	X					NOTE 1
JANITOR	110	X		X	X	X					NOTE 1
MECH./ELECT.	111	X		X	X	X					
RISER ROOM	112	X		X	X	X					

NOTE 1: CEILING MATERIAL SHALL BE MOISTURE RESISTANT.
NOTE 2: ALL STAIR TREADS AND INTERMEDIATE LANDINGS SHALL BE RAISED DISK RUBBER FLOORING.
GENERAL FINISH NOTES:
G.F.N.#1: PROVIDE A TERMINATION EDGE AT DOORS/OPENINGS TO ALLOW FOR A SMOOTH TRANSFER TO ADJACENT FLOOR SURFACE. TYPICAL AT ALL CHANGES IN FLOOR FINISH. SEE DETAIL "T1" ON THIS SHEET.
G.F.N.#2: PREP ALL FLOORING PRODUCTS PER MANUFACTURERS INSTRUCTIONS PRIOR TO APPLICATION TO INSURE PROPER INSTALLATION.

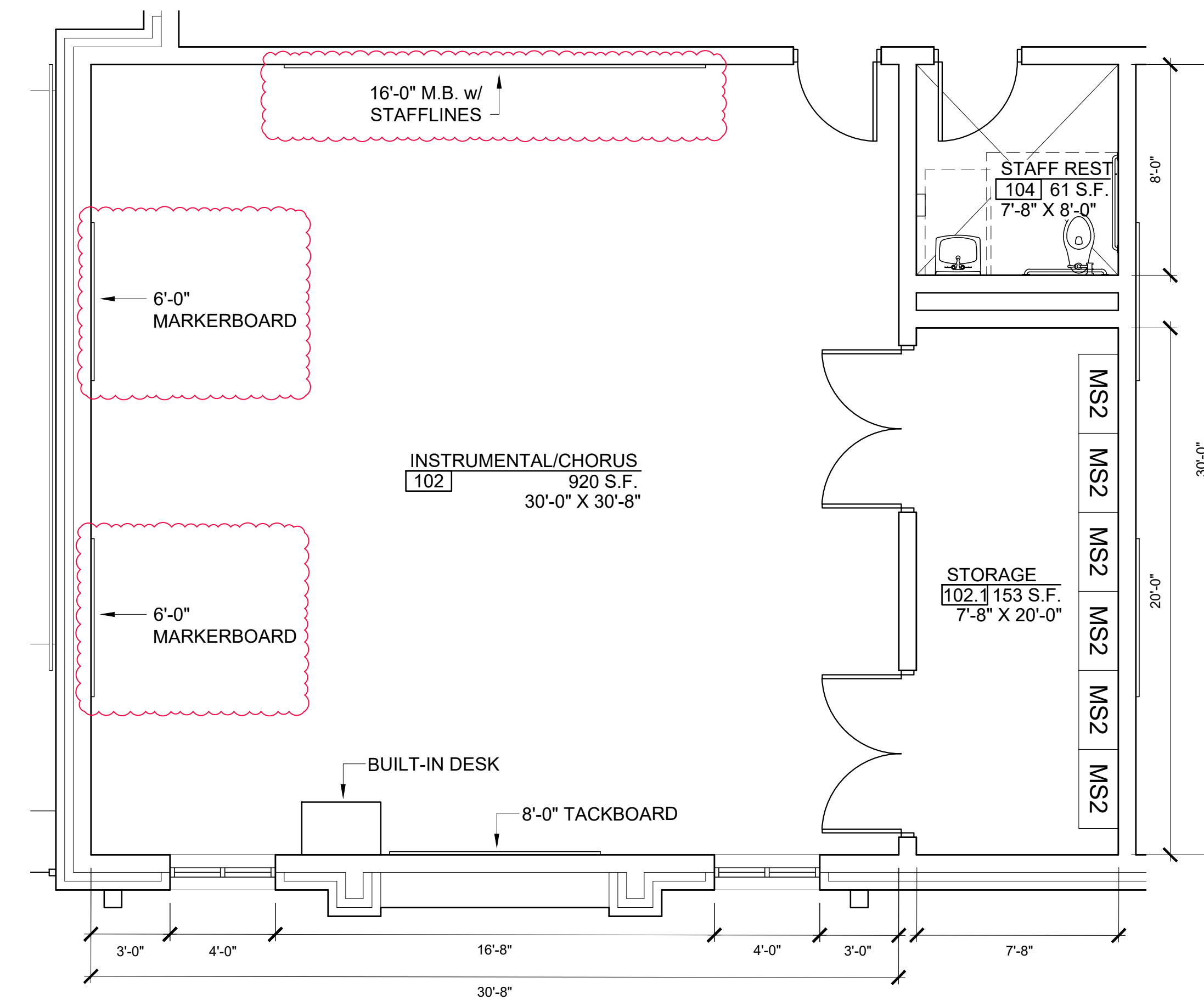


SCHEDULE of DOORS and FRAMES											
MARK	DOORS		FRAMES			MISC.					MARK
	TYPE	SIZE	TYPE	HEAD	JAMB	SILL	FIRE RATING	HW. SET NO.	REMARKS		
105	4	3'-0" 7'-0"	1	H2	J2	-	-	5	NOTE 1		105
106	2	3'-0" 7'-0"	1	H1	J1	-	-	1			106
107	2	3'-0" 7'-0"	1	H1	J1	-	-	1			107
108	2	3'-0" 7'-0"	1	H1	J1	-	-	1			108
109	1	3'-0" 7'-0"	1	H1	J1	-	-	2			109
110	1	3'-0" 7'-0"	1	H1	J1	-	-	2			110
111	1	3'-0" 7'-0"	1	H1	J1	-	-	8			111
112	2	3'-0" 7'-0"	1	H1	J1	-	-	1			112
113	2	3'-0" 7'-0"	1	H1	J1	-	-	1			113
114	2	3'-0" 7'-0"	1	H1	J1	-	-	1			114
115	2	3'-0" 7'-0"	1	H1	J1	-	-	9			115
116	1	3'-0" 7'-0"	1	H1	J1	-	-	45	7		116
117	1	3'-0" 7'-0"	1	H1	J1	-	-	7			117
118	3	3'-0" 7'-0"	1	H1	J1	-	-	90	6		118
119	1	3'-0" 7'-0"	1	H1	J1	-	-	7			119
MARK	TYPE	SIZE	TYPE	HEAD	JAMB	SILL	FIRE RATING	HW. SET NO.	REMARKS		MARK
DOORS		FRAMES			MISC.						

NOTE 1: PROVIDE PATHWAY INTO DOOR FRAME FOR FUTURE DOOR CONTROL SYSTEM



1 TYP. 4-5 CLASSROOM
SCALE: 1/4" = 1'-0" ROOMS 101, 103, 105, 106, & 107



2 INSTRUMENTAL/CHORUS
SCALE: 1/4" = 1'-0" ROOM 102

FOR CONSTRUCTION

PROJECT NUMBER
23-031

DATE
11/07/23

REVISIONS
NO. DATE
ADDENDUM #1
02/08/24

FACILITY CODE
641-0275



855 ABUTMENT ROAD
SUITE FOUR
DALTON, GA 30721
TEL. 706.529.5895

A NEW CLASSROOM ADDITION FOR:
DAVIS ELEMENTARY SCHOOL
5491 HIGHWAY 301, TRENTON GA 30752
DADE COUNTY SCHOOLS

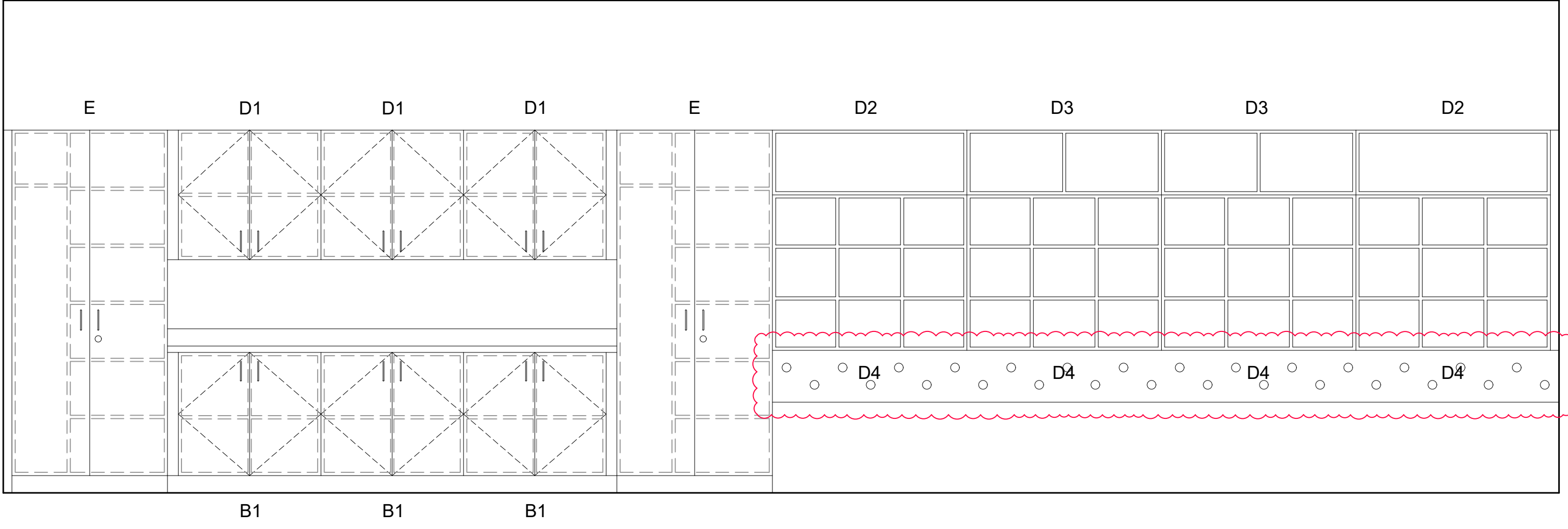


SHEET INDEX
DETAIL PLANS
CLASSROOMS

SHEET INDEX

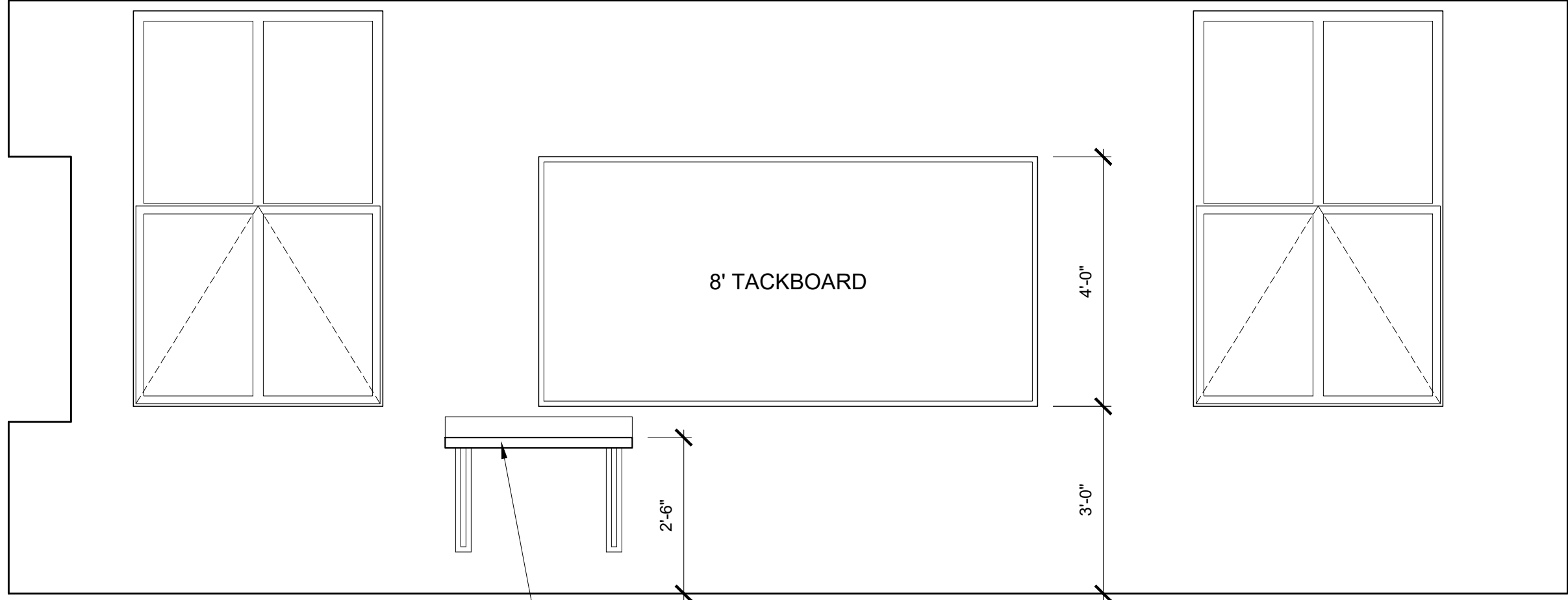
A6.1

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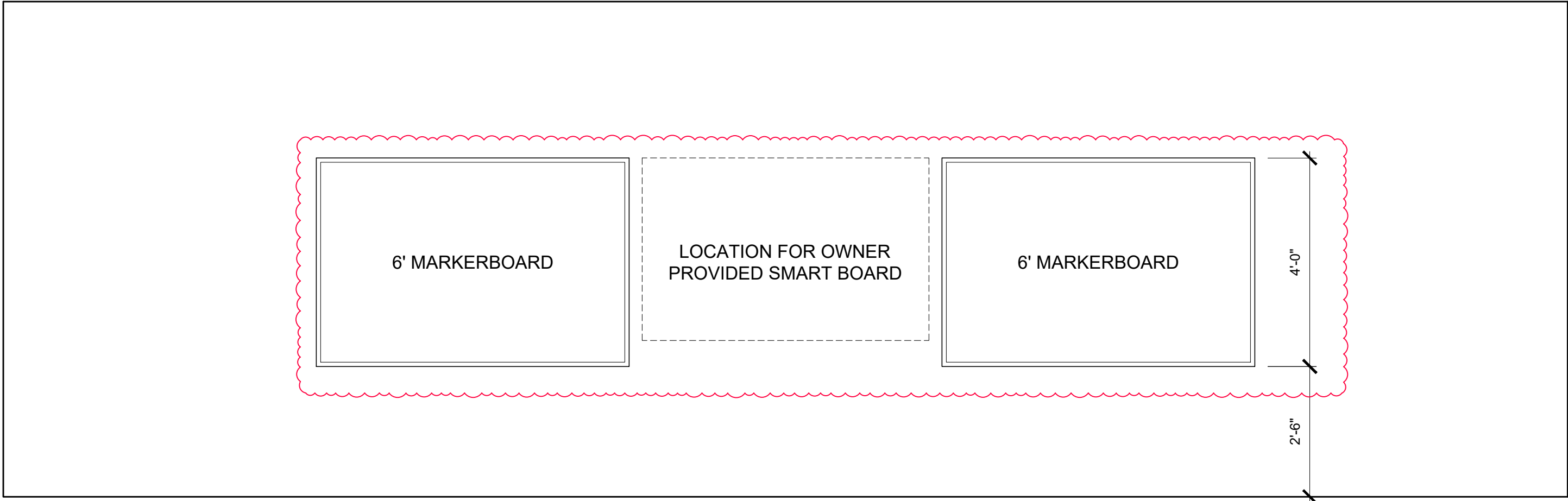
NOTE: ALL CABINETS TYPE E SHALL BE PROVIDED WITH SARGENT CORE IC LOCKS.

1 TYP. 4-5 CLASSROOM CASEWORK
SCALE: 1/2" = 1'-0"

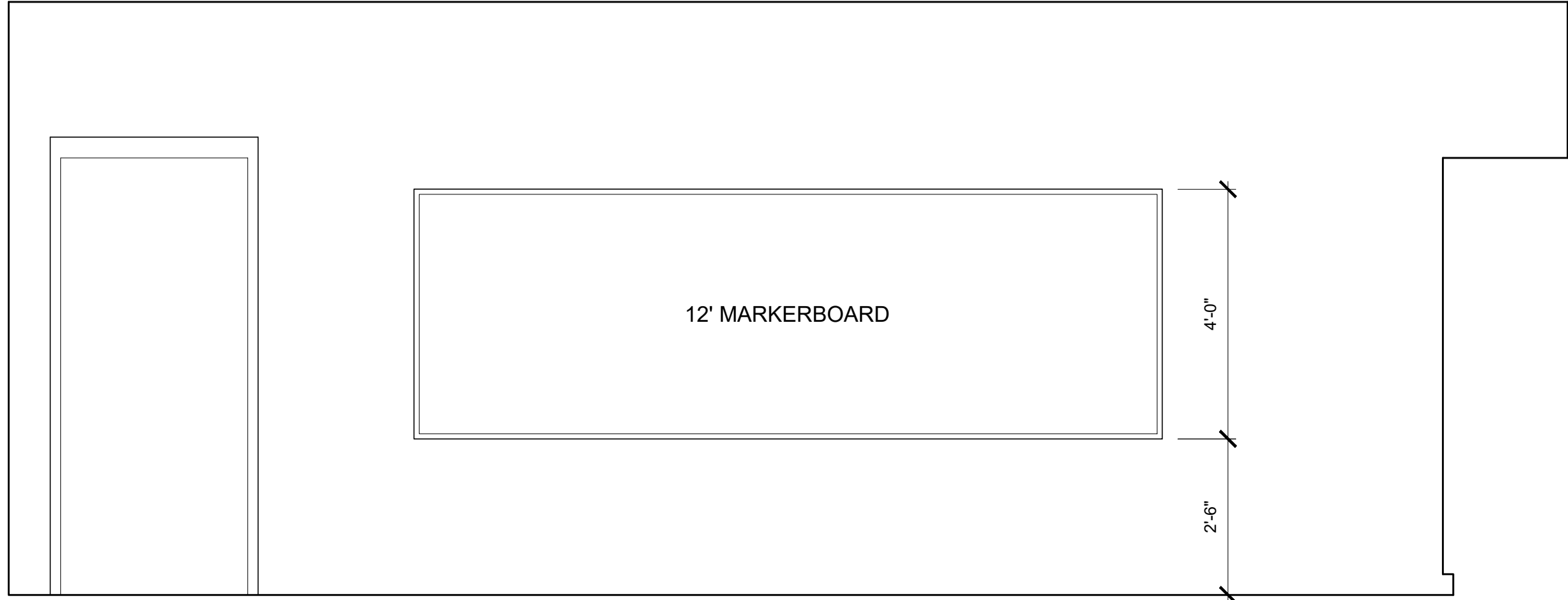


2'-0" D. X 3'-0" W. BUILT-IN DESK WITH P-LAM TOP & BACKSPLASH ON HEAVY DUTY METAL WALL MOUNTED BRACKETS

2 TYP. 4-5 CLASSROOM CASEWORK
SCALE: 1/2" = 1'-0"



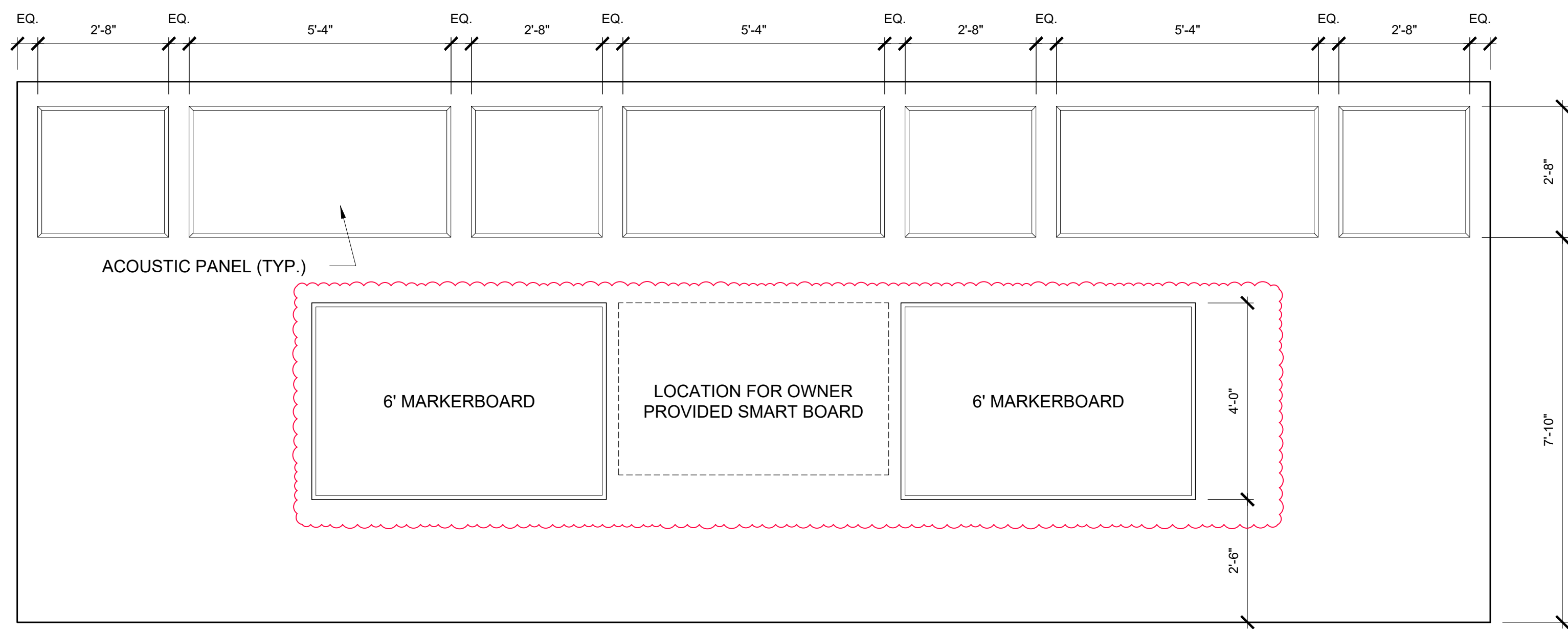
3 TYP. 4-5 CLASSROOM ELEVATION
SCALE: 1/2" = 1'-0"



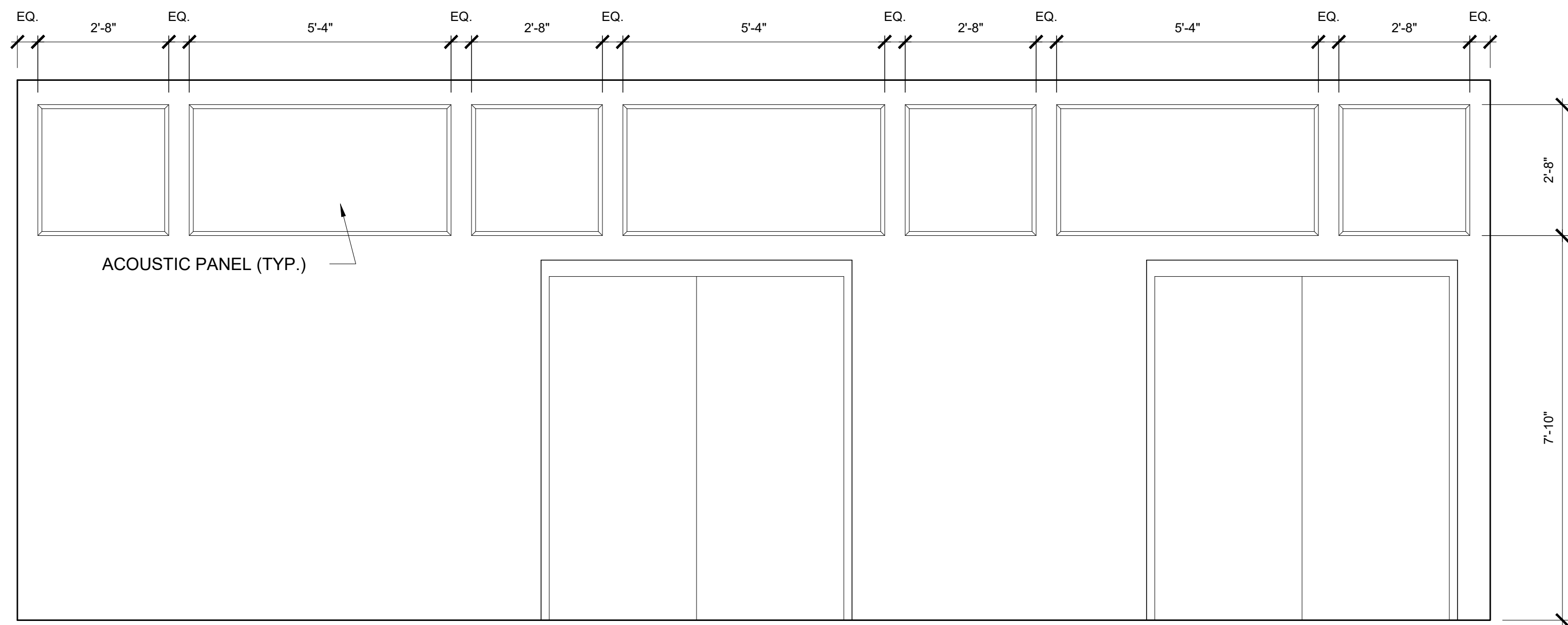
4 TYP. 4-5 CLASSROOM ELEVATION
SCALE: 1/2" = 1'-0"

CASEWORK SCHEDULE					
B1	B10210	BASE CABINET	33W, 34H, 24D		
D1	W30210	WALL CABINET	33W, 30H, 13D		
D2	W30000	WALL CABINET	45W, 15H, 13D		
D3	W30010	WALL CABINET	45W, 15H, 13D		
D4	W31020	WALL CABINET w/ LIGHT SHELF	45W, 36H, 13D		
E	T60220L	TALL CABINET	36W, 84H, 24D		
PROVIDE 28 IVES 582 DOUBLE WARDROBE HOOKS PER CLASSROOM FOR COAT HOOKS AS SHOWN.					

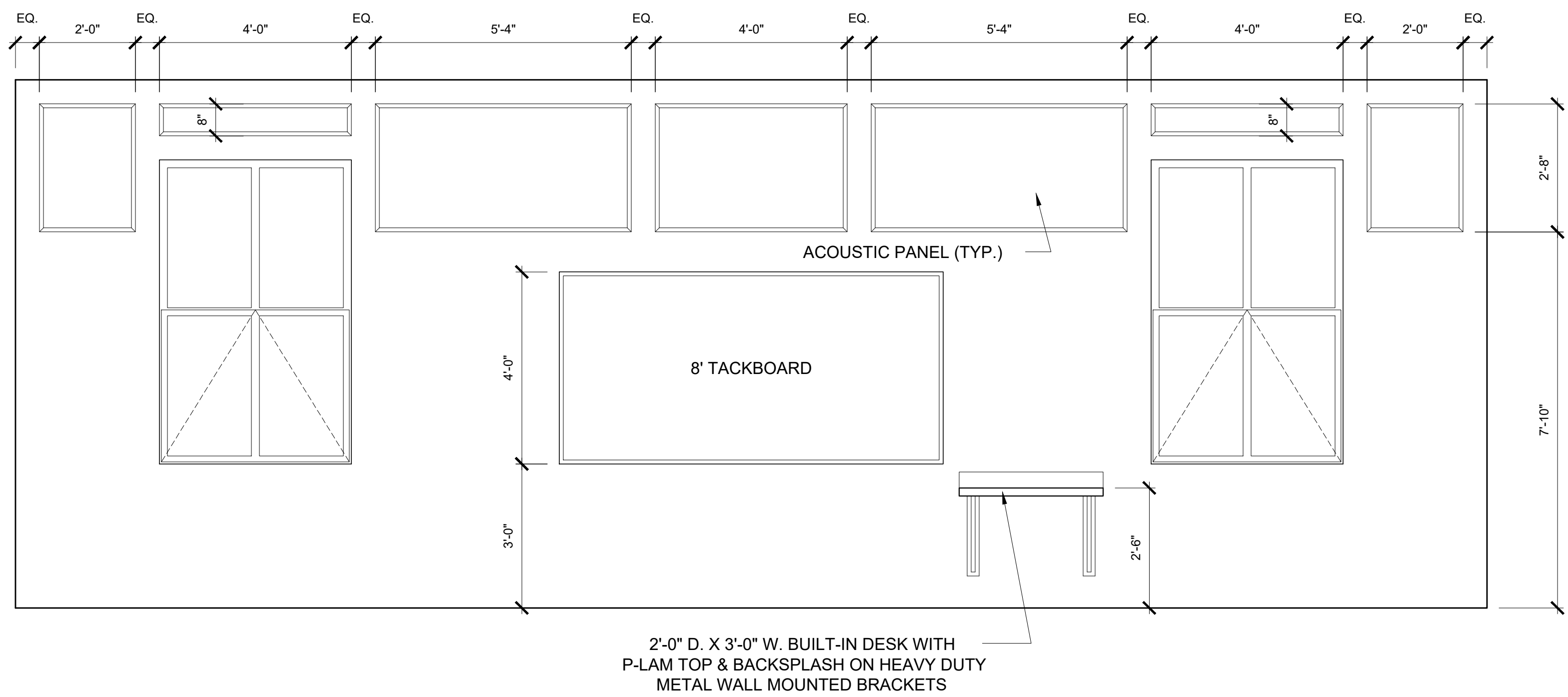
FOR CONSTRUCTION



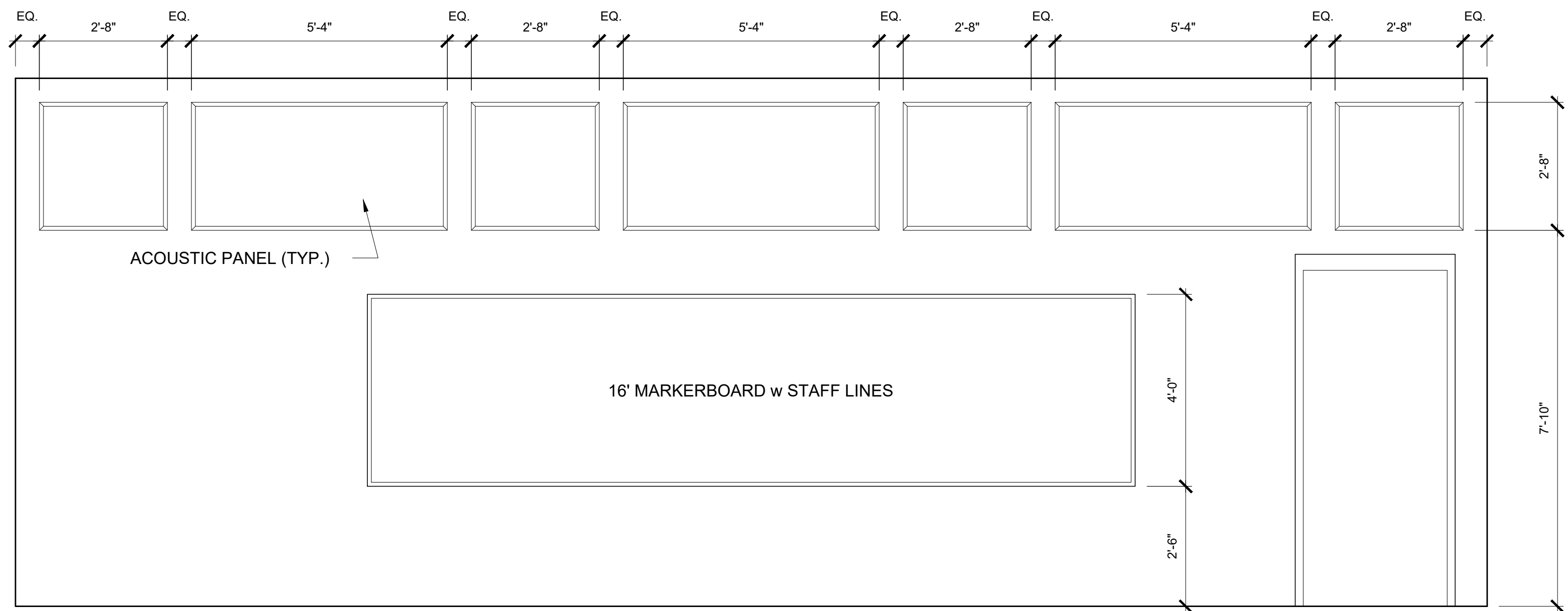
1 INSTRUMENTAL/CHORUS ELEVATION
SCALE: 1/2" = 1'-0"



3 INSTRUMENTAL/CHORUS ELEVATION
SCALE: 1/2" = 1'-0"



2 INSTRUMENTAL/CHORUS ELEVATION
SCALE: 1/2" = 1'-0"



4 INSTRUMENTAL/CHORUS ELEVATION
SCALE: 1/2" = 1'-0"

PRE-PROPOSAL MEETING

A NEW CLASSROOM ADDITION FOR DAVIS ELEMENTARY SCHOOL

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Phillip Hartline	Hartline Construction	hartlineconstruction@yahoo.com
Mike Davis	P-C Construction, Inc.	mdavis@pc-const.com
John Smith	Dade County Schools	johnsmith@dcps.org
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