

A New Fire Station for
Harmonville Fire Company – Plymouth Valley Station

DOCUMENT 00 9001 - ADDENDUM NUMBER 1 – 3/21/25

Re: A New Fire Station for Harmonville Fire Company – Plymouth Valley Station

From: Kelly Clough Bucher & Associates, Inc.
8 East Broad Street
Hatfield, PA 19440

To: Prospective Bidders

This Addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated 3/6/25 as noted below. Acknowledge receipt of this addendum when you submit your bid on PennBid. Failure to do so may subject the Bidder to disqualification.

This Addendum consists of **3** pages, including as attachments- **93** pages of 8.5” x 11” sheets and **14** drawing sheets.

CHANGES TO THE BIDDING REQUIREMENTS, CONTRACT FORMS AND CONDITIONS OF THE CONTRACT

- 9001.01 Meeting minutes from pre-bid meeting along with the sign-in sheet are attached at the end of this document.
- 9001.02 On PennBid in the Pricing Section, the separate Unit Prices table has been removed from the form. This is to reduce redundancy and any chance of error. Please note that Unit Prices are still required and are to be entered into the Unit Price column of the Allowances table.
- 9001.03 On PennBid when submitting a bid, the Supporting Documents portion has been modified to provide more specific detail as to the document required to be uploaded.
- 9001.04 Section INS (INSTRUCTIONS TO BIDDERS)
On page INS – 4, delete sub-paragraph 9, A, 1).
Sub-paragraph “1)” referenced an RCO requirement, whose requirements have been waived for this project.
- 9001.05 Section BF-P (BID FORM - STIPULATED SUM, PLUMBING CONSTRUCTION)
Article 11 the last item listed is “Responsible Contractor Determination”. This is to be removed, as there is no RCO requirement on this project. Please note that the PennBid Acknowledgements already has this removed.
- 9001.06 Information Available to Bidders -
Information regarding the DCED Grant has been attached at the end of this document. This grant pertains to Mechanical/HVAC system.
- 9001.07 Section CI (CONTRACTOR’S INSURANCE)
Delete pages CI – 1 through CI – 4 and replace with the updated pages CI - 1 through CI – 3. Changes address formatting issues and duplicate content, replacing Engineer with Architect where appropriate, and providing insurance coverage and limits of liability values.

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CHANGES TO THE SPECIFICATIONS

- 9001.08 TABLE OF CONTENTS
Remove Section 32 1215 PRICE ADJUSTMENT FOR BITUMIOUS MATERIALS and Section 32 3113 CHAIN LINK FENCES AND GATES from the TABLE OF CONTENTS.
- 9001.09 SECTION 05 5000 METAL FABRICATIONS
Add the following:
2.19 METAL CORNER GUARDS
A. To be minimum 94" in length and have flanges a minimum of 2" in width. Provide with pre-drilled holes for securing to wall. To be one of the following:
1. Anodized aluminum - .125 gauge with #4 brushed finish.
2. Stainless Steel – 16 gauge with #4 brushed finish.
- 9001.10 SECTION 10 2813 TOILET ACCESSORIES
Add the following to Item 3.1:
D. For vertical grab bars that span between tile wainscot and drywall, provide a wood shim/spacer cut to the diameter of the grab bar mounting plate at the depth required to equal the thickness of the tile wainscot. Use maple or similar hardwood and paint the same color as the wall. Attach grab bar assembly through hardwood spacer into blocking.
- 9001.11 SECTION 12 3216 MANUFACTURED LAMINATE-CLAD CASEWORK
Delete Item 2.1 A and replace with the following:
A. Basis of Design Product for Cabinets: The design for institutional casework is based on Stevens Advantage 1200 Traditional Series; Stevens Industries, Inc., Teutopolis, IL. Manufacturer of Plastic-Laminate Material: As indicated by manufacturer's designations on the Drawings. Provide the specified product or a comparable product by one of the following:
1. Case Systems
2. TMI.
3. Mastercraft Woodworking Co., Inc.
4. American Millwork and Cabinetry, Inc.
- 9001.12 SECTION 21 1313 WET-PIPE SPRINKLER SYSTEMS
See attached for the above noted specification section that is to be added to Volume 2.

CHANGES TO THE DRAWINGS

- 9001.13 Drawing sheet A3.01 added window information has been provided. Reference attached updated sheet.
- 9001.14 Drawing sheet A3.04 Section 8 the footing detail was updated to coordinate with the structural foundation detail. Reference attached updated sheet.
- 9001.15 Drawing sheet A3.05 Section 9 the footing detail was updated to coordinate with the structural foundation detail. Reference attached updated sheet.
- 9001.16 Drawing sheet A8.03 Section Detail 2 the angle supporting the roof deck has been changed to a plate. Reference attached updated sheet and updated structural details.

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- 9001.17 Drawing sheet A8.03 Section Detail 9 the plate and flashing assembly has been moved down to be on top of the beam. Reference attached updated sheet.
- 9001.18 Drawing sheet S2.01 has some additional information. Column line 3.4 was added for a post that is needed to support the lintel that supports the wall along column line “A”. And at column line 6.1, between column lines “A” and “A.7”, additional information was added for the concrete steps and foundations. This whole area is to be verified in the field with actual grading, and to be reviewed with Architect prior to constructing. Reference attached updated sheet.
- 9001.19 Drawing sheet S2.02 reflects the same changes noted above for sheet S2.01. Reference attached updated sheet.
- 9001.20 Drawing sheet S2.03 has additional information regarding the post that is being added at column line 3.4. Reference attached updated sheet.
- 9001.21 Drawing sheet S3.01 has been updated to reflect the fact that no foundation perimeter drains are required. Reference attached updated sheet.
- 9001.22 Drawing sheet S3.02 detail 5 has been updated to reflect the changes in the steps noted on sheet S2.01 and S2.02. Reference attached updated sheet.
- 9001.23 Drawing sheet S5.01 the column schedule has been updated to add column line 3.4, and additional information has been added to clarify column lengths. Reference attached updated sheet.
- 9001.24 Drawing sheet S5.04 has been updated to show grout at anchor locations.
- 9001.25 Drawing sheet S5.05 Details 3 and 6 have been modified to have a plate connected to the top of the beam to support the roof deck. Reference attached updated sheet.
- 9001.26 Drawing sheet S5.06 has been updated to show the cmu block extending to the full height of the parapet wall. Please note bond beams and addition of rebar at parapet locations. Reference attached updated sheet.
- 9001.27 Drawing sheet P3.1 has been updated to show work related to Alternate No. 8.

END OF DOCUMENT 00 9001

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Pre-Bid Meeting Minutes
(Mandatory)

3/18/25

1. Introductions
 - a. Owner – HFC Team Members
 - b. Township – Matt West (Township Manager) and Rick Carbo (Buildings and Grounds Director)
 - c. KCBA Architects – Rick Stamper (Project Manager), Eric Gianelle (Principal)
 - d. CHA – Nolan Zambelli (Plumbing Engineer)
2. Availability of Documents – PennBid Bonfire.
3. Project Dates
 - a. Bids due Thursday April 10th at 10:00 AM; to be submitted via PennBid.
 - b. Cut-Off for questions: Thursday April 3rd by end of day.
 - c. Last Addenda Issued: No later than Monday April 7th by 3:00pm.
 - d. Decision on Bids – expected by Monday May 5th.
 - e. Notice to Proceed – Anticipated to be issued May 8th.
 - f. Time of Completion – 15-month construction period starting from Notice to Proceed.
 - g. Key Benchmarks.
 - 1) Plumbing contractor to submit shop drawings for Sprinkler System Hydraulic calculations within the first 20 days after the Notice to Proceed has been issued.
 - a. This is to ensure that the County permit is applied for and obtained such that the impact on schedule is minimized.
 - 2) Enclosure of building envelope shall be complete on or before November 19th, 2025.
4. Brief Description of Project
 - a. Project will be constructed with four (4) prime contractors – general; mechanical; plumbing and electrical.
 - b. Major Alternates - Alternate No. 1 – Second Floor Fitout. Alternate No. 3 – Exterior Balcony and Stair.
 - c. Structural Work to one joist in Ambulance building.
 - d. Site layout –
 - 1) Site is tight –
 1. Basketball courts being removed from project – this with some resulting adjustments will be updated in Addenda.
 2. All work to occur within limits shown.
 3. Contractor Parking – As shown on A0.02.
 4. Ambulance building – use caution not to disturb neighboring property.
 5. Coordination and sequencing between disciplines will be critical. Storm sewer lines are shallow.
 - e. Construction of concrete sidewalks, landscaping, fencing, site lighting and asphalt paved areas in conjunction with the new building and courtyard area.
 - f. Construction of sub-surface utilities including fire protection, storm sewage and sanitary sewage piping.
 - g. Construction of underground stormwater management facilities as well as stormwater collection from building downspouts.

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5. Available Project Information – for reference only
 - a. Geotechnical Report
 - b. Hazardous Materials Survey
 - c. Existing Drawings – file on PennBid.
 - d. Grant Information and Forms
 - e. Civil drawings in ACAD will **not** be made available during bidding but will be made available to the successful bidder after award with signing of a release.
6. Building Occupancy
 - a. Firehouse will be emptied prior to demolition. HFC to perform some training on building prior to demolition.
 - b. Ambulance building will remain fully occupied and operational. Do not block bays or drives.
7. Access to the Site During Bid Period is by appointment only, send requests to me for coord. w/ HFC.
 - a. Rick.Stamper@KCBA-Architects.com
8. Questions Regarding Bid Documents
 - a. Questions for any/all contracts shall be submitted via PennBid. Questions received by any other means will not be acknowledged. Questions will be accepted up to the time as previously noted. Any modifications in the Bid Documents resulting from questions and/or requests for clarifications will be addressed by addendum only. Only questions received from plan holders will be answered. Please clearly identify your name and company name with telephone number in case follow-up information on a question is needed.
9. Addenda
 - a. Will be emailed to all parties who have signed up on PennBid for this project.
 - b. Acknowledgement of receipt of Addenda is required on the bid form.
10. Pre-Bid Substitutions
 - a. No requests accepted from manufacturers or vendors – must come from a prime contract bidder.
 - b. CSI Form 13.1.A
 - c. No substitution will be considered prior to receipt of Bids unless written request for approval has been received by the Architect at least ten days prior to the date for receipt of Bids.
 - d. Detailed comparison between proposed substitute and specified product/system.
 - e. Similar installations and references.
 - f. Coordination with other parts of the Work affected.
 - g. Material test reports/evaluation reports and product data.
 - h. Contractor's certification that substitution complies with Contract Documents and is appropriate for intended application.
 - i. Contractor must waive additional time or compensation if proposed substitution does not produce indicated results.
 - j. Burden of proof is on proposer; successful requests will be issued by addendum.
11. Substitutions submitted with Bid
 - a. Substitutions shall NOT be submitted with the bid. If substitutions are included, it may render bid non-responsive or cause contractor to perform work at same cost with no substitution.

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12. Preparation of Bid – Submitted via PennBid
 - a. Fill out requested information.
 - b. Upload supporting Documents.
 - c. Complete Acknowledgements.
 - d. Complete Pricing Section for the contract you are submitting for. Involves downloading Excel document, filling it out, saving it, and uploading completed form to PennBid.
 - 1) Add Allowances into your Base Bid...the program will not do this for you.
 - e. Use Bid Bond form in the project manual.
 - f. Include executed non-collusion affidavit.
 - g. Include the Contractor's Qualifications Statement.
13. Bid Security
 - a. Bid security shall be in amount not less than 10% of base bid amount, submitted in the form of certified or banker's check payable to the Plymouth Township or bid bond naming the Plymouth Township as obligee.
 - b. Proposals not accompanied by bid security in proper amount and form will be rejected.
 - c. If bid security is in the form of a bid bond, use the form included in the bid documents and include a certified and current power of attorney on behalf of the surety company.
 - d. If bid security is submitted in the form of a check, the bidder shall also submit agreement of surety – in the form included in the bidding documents – acknowledging that the surety company will provide the bidder with a performance bond and payment bond for 100% value of the contract sum.
14. Prevailing Wages
 - a. PA Prevailing Wages as included in Project Manual
 - b. Provide payroll certifications as required and keep records.
15. Alternates
 - a. Provide alternate prices in the Pricing Section document on PennBid. Enter "--" for negative values, and enter 0.00 for No Change. Double check by verifying total.
 - b. Owner has the right to accept alternates in any order or combination and to determine low bidder on basis of sum of base bid and alternates accepted.
 - c. Bid prices for alternates not included in Contract at time of execution shall be held by Contractor for period of not less than 90 days; Owner may incorporate those alternates, at its discretion by change order.
16. Unit Prices
 - a. No unit costs, other than those required by allowances shall be included in Base Bid.
 - b. Unit costs will be used for adjustment of Contract Sum, if any are required.
 - c. Owner reserves the right to reject any unit prices bid.
17. Allowances
 - a. Include all allowances listed in Section 01 2100 UNIT PRICES AND ALLOWANCES.
 - b. Unused Allowances are returned to the Owner.
18. Bid Forms
 - a. Content of forms in specification are converted to electronic format in PennBid.
 - b. Familiarize yourself with PennBid format prior to submitting bids...leave time to ask questions.

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19. Lowest Responsive and Responsible Bidder

- a. Contract will be awarded to the lowest responsive and responsible bidder as determined by the sole discretion of the Owner.
- b. In addition to proposed price, the following factors will also be considered:
 - 1) Character, integrity, reputation and judgment of the Bidder.
 - 2) Previous record of performance
 - 3) Ability, capacity, experience and skill of Bidder to perform the Work.

20. Execution of Contract and Bonds

- a. Within 10 days of Notice of Intent to Award:
 - 1) Successful bidder shall furnish a Performance Bond and Payment Bond utilizing the forms included in the Bid Documents; each in the amount of 100% of contract sum. Other forms – including AIA standard surety forms are NOT acceptable. Bonds must be issued by sureties in conformance with the Best Rating Guide as outlined in the General Conditions.
 - 2) Certificate of Insurance, as required by Article 11 of the General Conditions.
 - 3) Signed Agreement.
- b. After approval of bonds and insurance, Owner will sign the Agreement and return the executed Agreement to Contractor within 60 days unless extended by mutual written agreement by Owner and Contractor
- c. Upon Notice of Intent of Award, Contractor shall submit to Architect a prepared CSI Form 13.1A, Subcontractors and Major Material Suppliers List.

21. Agreement

- a. AIA Document A101 – Standard Form of Agreement between Owner and Contractor; sample included in Bid Documents.

22. Insurance

- a. The Township will carry the Builders Risk insurance. All other coverage shall be by the individual contractor. Minimum coverages are listed in the General Conditions.

23. Taxes

- a. The Township is exempt from certain sales and/or use tax in Pennsylvania on certain transactions. Refer to documents for further requirements. The Township's tax-exempt form will be provided when the Notice to Proceed has been issued.

24. Grants

- a. The Township is in receipt of grants from the Commonwealth of Pennsylvania. These grants require forms to be filled out by the Contractor, requires purchase of particular products, and record keeping of various documents. The following documents are contained in Section - Available Project Information.
 - 1) DCED Grant
 - 2) RACP Key Compliance Guidelines
 - 3) RACP ST-2, ST-3 and ST-4 Forms
 - 4) Guidance on Steel Certification Relative to the Redevelopment Assistance Capital Program (RACP)

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25. Safety/Security
 - a. The GC will be responsible for ensuring that the construction site is safe and secure.
 - b. No alcohol, drugs, tobacco and obscenity on the site will be allowed. Any violation shall be grounds for removal from the property.
26. Building Permit
 - a. The Township is in the process of obtaining the general construction building permit. All Township permit fees will be waived. Any permit fees required from outside agencies are the responsibility of the contractor.
 - b. All contractors must be licensed to perform work in Plymouth Township. Each contractor must pay for and obtain the necessary license at no cost to the Owner.
27. Liquidated Damages
 - a. Substantial and Final Completion of the Work is subject to liquidated damages as specified in the General Conditions.
28. Web-Based Project Software.
 - a. May be used subject to conditions stipulated in the specification section 01 3100 – PROJECT MANAGEMENT AND COORDINATION.
29. Hours of Work
 - a. 7:00am till sunset is allowed Monday through Friday.
 - b. Work on Saturday and Sunday must be approved by Owner in advance.
30. Project Coordinator
 - a. General Construction Contractor shall act as and assume all responsibilities of the Project Coordinator.
31. Mechanical Coordinator – shall be under direction of Project Coordinator.
 - a. HVAC Contractor shall act as mechanical/electrical coordinator.
32. Construction Testing and Inspections
 - a. Will be by third party contracted with the Owner. Project Coordinator is responsible for coordinating required inspections.
 - b. HVAC Testing and Balancing and Commissioning Verification will be provided by a third party contracted with the Owner.
33. Delineation of responsibilities
 - a. Reference Specifications and Drawings. General understanding – if it is on your set of drawings, unless noted otherwise, it is your responsibility.
 - b. Cutting and Patching - Each Contractor is responsible for their own cutting and patching.

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- c. Trenching
 - 1) In building by each individual contractor.
 - 2) Outside building by GC, except electrical.
 - d. Oil Separator by PC and piping to/from building to oil separator.
 - e. Temporary Facilities and Controls – reference Section 01 5000 for requirements.
 - 1) Construction Trailers
 - a) GC responsible for Common-Use field office
 - b) All other trailers can be 25' or smaller, due to site constraints.
 - c) Coordination of trailer location.
34. Questions – submit through PennBid.
- a. Several questions were asked and answered during the meeting.
 - 1) Can the bid time be pushed back to 2:00pm instead of 10:00am.
Answer – There should be no issues with accommodating this request.
 - 2) Are trash dumpsters by each contractor?
Answer – Yes. It was noted due to the tight site constraints that Contractors may want to coordinate this, so that there is only one dumpster.
 - 3) In Temporary Provisions it was noted that a water truck would be required, is it?
Answer – Only if there is no other water source available. It was noted that a hose bib should be available from the Ambulance building next door.
 - 4) It was noted that there seems to be some discrepancies regarding the timing of submitting the sub-contractor list.
Answer – Subcontractor list is to be submitted within 14 days after Notice of Intent to Award.
35. Tour of existing building/site. After the formal meeting contractors were invited to see the existing conditions in the Ambulance building, and were allowed to investigate conditions in the existing fire station and the surrounding site.
36. Copies of sign-in Sheets are attached to these meeting minutes.

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF COMMUNITY AND ECONOMIC DEVELOPMENT**

COVID-19 ARPA PANDEMIC RESPONSE GRANT PROGRAM CONTRACT

This Contract is entered into by and between the Commonwealth of Pennsylvania (the "Commonwealth"), acting through the Department of Community and Economic Development (the "Grantor"), and

**HARMONVILLE FIRE COMPANY NUMBER 1
2100 Butler Pike
Plymouth Meeting PA 19462-1847**

(the "Grantee").

BACKGROUND:

Under the provisions of the American Rescue Plan Act of 2021, Section 9901, Enacted H.R. 1319, , Public Law 117-2, codified as 42 USC 802 et. seq. (the "ARPA Act"), the U.S. Department of Treasury is authorized to distribute Coronavirus State Fiscal Recovery Funds to the Commonwealth to respond to the public health emergency with respect to COVID-19 or its negative economic impacts, including assistance to businesses, and nonprofits and aid to impacted industries, such as tourism, travel, and hospitality.

Section 3 of the Act of May 10, 1939 (P.L. 111, No. 51), known as the Commerce Law authorizes the Grantor to undertake ways and means of promoting and encouraging the prosperous development of Pennsylvania business, industry and commerce, of expanding markets and promoting and developing new markets for Pennsylvania products, to encourage the location and development of new business, industry and commerce within the Commonwealth, to aid in restoring employment in communities affected by unemployment, and to assist persons, firms, associations, political subdivisions, corporations, cooperative associations and other organizations in the execution of its duties and functions under the Act.

The General Assembly of the Commonwealth has appropriated funds to the Grantor to carry out the provisions of these Acts.

NOW, THEREFORE, in consideration of the foregoing, and subject to the conditions contained herein, the parties hereto intending to be legally bound hereby, do covenant and agree for themselves, their respective successors and assignees as follows:

**ARTICLE I
AMOUNT OF THE CONTRACT**

Subject to the terms of this Contract, the Grantor hereby makes available to the Grantee out of funds appropriated a grant in the sum of **TWO HUNDRED THOUSAND DOLLARS (\$200,000.00) AND NO CENTS-----** or such portion thereof as may be required by the Grantee and authorized by the Grantor, subject to the condition that it shall be used by the Grantee to

carry out the activities described in the application submitted by the Grantee and as approved by the Grantor (the "Project"), which application is incorporated herein by reference. In addition, this Contract shall be subject to Appendix A, Project Description, Appendix B, Budget, and Appendix C, Special Conditions, which are attached hereto and incorporated herein. Prior to approval of the Grantee's application, the Grantor evaluated the Grantee's risk of noncompliance with Federal statutes, regulations, and the terms and conditions of the subaward for purposes of determining the appropriate level of monitoring, and, if necessary, has included specific conditions under Appendix C, Special Conditions, to address any concerns which arose during the evaluation process. (2 CFR 200.206).

ARTICLE II EFFECTIVE DATES

The term of this Contract shall commence on the Effective Date (as defined below) and shall end on **DECEMBER 31, 2024**, subject to the other provisions of this Contract.

The Effective Date shall be the date the fully executed Contract is sent to the Grantee. A fully executed contract is one that has been signed by the Grantee and by the Grantor and contains all approvals required by Commonwealth contracting procedures.

This Contract is not binding in any way, nor will the Commonwealth be bound, until this document has been fully executed and sent to the Grantee. Any cost incurred by the Grantee prior thereto are incurred at the Grantee's risk.

ARTICLE III PAYMENT PROVISIONS AND FISCAL RESPONSIBILITIES

(a) The Grantor agrees to pay the Grantee for eligible Project costs incurred under this Contract between **MARCH 1, 2020** and **DECEMBER 31, 2024** (the "Contract Activity Period") as follows:

- (1) Subject to the availability of state and federal funds and other terms and conditions of this Contract, the Grantee will be reimbursed based upon a determination of the Grantee's needs and in accordance with the Budget as set forth in Appendix B.

The Grantor may pay the Grantee for eligible Project costs at intervals to be determined by the Grantor. Under no circumstances shall the Commonwealth or the Grantor be liable for any expenditure exceeding the amount stated in this Contract or amendments hereto.

Any expenditure made by the Grantee which is not in accordance with the terms of this Contract may be disapproved and payment to the Grantee may be adjusted accordingly.

- (2) Subject to the other terms and conditions of this Contract or unless otherwise directed by the Grantor, initial payments to the Grantee to effectuate activities under this Contract and all other payments shall be made on invoice forms and in accordance with instructions provided by the Grantor.

- (3) To the extent available, the Grantee must disburse funds available from program income (including repayments to a revolving fund), rebates, refunds, contract settlements, audit recoveries, and interest earned on such funds before requesting additional cash payments from the Grantor. (2 CFR 200.305(b)(5)).
- (A) Program Income is defined as gross income earned by the Grantee that is directly generated by the Project or earned as a result of the grant award during the Contract Activity Period. (2 CFR 200.80).
- (B) Program Income includes, but is not limited to, income from fees for services performed, the use or rental of real or personal property acquired pursuant to this Contract, the sale of commodities or items fabricated pursuant to this Contract, license fees and royalties on patents and copyrights, and principal and interest on loans made with funds received pursuant to this Contract. (2 CFR 200.80).
- (C) Program Income does not include interest earned on advanced payments of grant funds, nor does it include rebates, credits, discounts, and interest earned on any rebates, credits or discounts, except as otherwise provided in Federal statutes, regulations or the terms and conditions of the Federal award. (2 CFR 200.80).
- (4) Pennsylvania Electronic Payment Program
- (A) The Commonwealth will make payments to the Grantee through ACH. Within 10 days of the grant award, the Grantee must submit or must have already established its ACH information in the Commonwealth's Master Database. The Grantee will also be able to enroll to receive remittance information via electronic addenda and email (e-Remittance). ACH and e-Remittance information is available at <https://www.budget.pa.gov/Services/ForVendors/Pages/Direct-Deposit-and-e-Remittance.aspx>
- (B) The Grantee must submit a unique invoice number with each invoice submitted. The unique invoice number will be listed on the Commonwealth's ACH remittance advice to enable the Grantee to properly apply the Grantor's payment to the respective invoice or program.
- (C) It is the responsibility of the Grantee to ensure that the ACH information contained in the Commonwealth's Master Database is accurate and complete. Failure to maintain accurate and complete information may result in delays in payments.

To receive reimbursement under this Contract, the Grantee shall submit requests for payment based on the Grantee's estimate of expenditures, at intervals as determined by the Grantee to meet disbursement needs. Unless otherwise instructed by the Grantor, this estimate may not exceed the current disbursement needs of the Grantee in order

that the amount of cash on hand and available to the Grantee is as close to daily needs as administratively feasible. The Grantor may, however, set a minimum payment level or amount for each request for payment.

(b) Conditions for Payment:

- (1) Grant payments under this Contract shall be conditioned upon the completion of any Special Conditions set forth in Appendix C or otherwise incorporated into this Contract.
- (2) Costs allocated to program administration shall be limited to those set forth in the Budget or as otherwise revised in accordance with the amendment provisions of this Contract set forth in the Article entitled Amendments and Modifications.
- (3) Payment by the Commonwealth and all other terms of this Contract are subject to the effect of any federal deficit reduction legislation upon the availability of funds awarded by this Contract.

(c) Project Account:

- (1) The Grantee is not required to establish and maintain separate depository accounts for funds received pursuant to this Contract. However, the Grantee must be able to account for the receipt, obligation and expenditure of funds received pursuant to this Contract through some sort of accounting system (the "Project Account"). (2 CFR 200.305(b)(7)(i)). The Grantee shall charge to the Project Account all approved costs of the Project. All such costs, including activities contributed by the Grantee or others and charged to the Project Account, shall be supported by properly executed vouchers or other records indicating in proper detail the nature and propriety of the charge.
- (2) If the Grantee receives an advance payment of funds pursuant to this Contract, the Grantee must deposit and maintain the advance payment of funds received pursuant to this Contract in insured accounts whenever possible. (2 CFR 200.305(b)(7)(ii)).

(d) Investment of Funds:

- (1) The Grantee must maintain advance payments of funds received pursuant to this Contract ("Advanced Funds") in interest-bearing accounts, unless:
 - (A) The Grantee receives less than \$120,000 in Federal awards per year;
 - (B) The best reasonably available interest bearing account would not be expected to earn interest in excess of \$500 per year on Federal cash balances;
 - (C) The depository would require an average or minimum balance so high that it would not be feasible within the expected Federal and non-Federal cash resources; or

- (D) A foreign government or banking system prohibits or precludes interest bearing accounts. (2 CFR 200.305(b)(8)).
- (2) The Grantee may retain for administrative expenses interest earned on Advanced Funds totaling up to \$500 per calendar year. Any additional interest earned on Advanced Funds must be remitted annually to the Department of Health and Human Services Payment Management System (PMS) through an electronic medium using either Automated Clearing House (ACH) network or a Fedwire Funds Service payment.
(2 CFR 200.305(b)(9)).
- (e) Conditions for Repayment of Grant Funds:
 - (1) Misuse or Failure to Use Funds.
 - (A) The Grantee agrees that it will use the funds granted hereunder, or as much as may be necessary, to carry out the aforesaid project in accordance with the terms of this Contract. If after all or any part of the funds has been paid to the Grantee and the Grantee shall fail to carry out the activities, the Grantee shall repay the Grantor the funds theretofore paid.
 - (B) If the Grantee does not use all or a portion of the funds paid under the terms of this Contract for purposes of and in accordance with this Contract, the Grantee shall be liable to the Grantor for the amount of funds unused or improperly used and shall return said funds to the Grantor.
 - (C) In the event the Grantor shall be entitled to repayment of all or a portion of the funds granted herein, the repayment shall include all interest, income, accumulations and the monetary equivalent of any appreciation in value of any property (real, personal or mixed) purchased with the funds granted them. A check shall be written, payable to the Commonwealth of Pennsylvania, and forwarded to the Grantor for: (1) the principal and (2) the total of any such interest, income, accumulations or appreciation in value.
 - (2) Violation of the Prohibition of Illegal Alien Labor on Assisted Projects Act.

In the event that the Grantee
 - (i) knowingly employs, or knowingly permits any of its subcontractors to knowingly employ, the labor services of an illegal alien on activities funded in whole or in part by grants or loans issued by an executive agency of the Commonwealth of Pennsylvania; and
 - (ii) the Grantee or any of its subcontractors are sentenced under Federal law for an offense involving knowing use of labor by an illegal alien on activities funded in whole or in part by grants or

loans issued by an executive agency of the Commonwealth of Pennsylvania,

the Grantee shall, in accordance with instructions to be provided by the Grantor, repay all grant funds received by the Grantee from the Grantor pursuant to this Contract.

(3) Direct Payment of Federal Funds.

If the Grantee receives funds granted hereunder directly from the Federal government and those funds are required to be repaid pursuant to these provisions, those funds shall be repaid to the Federal government, unless otherwise directed by the Grantor.

(f) Federal Funding Accountability and Transparency Act Provisions.

(1) Registration and Identification Information. The Grantee must maintain a current full registration in the System for Award Management ("SAM") (www.sam.gov) at all times during which the Grantee has active federal awards funded pursuant to this Contract. A Unique Entity Identifier (UEI) is issued upon registration in SAM.gov. The Grantee must provide its UEI to the Commonwealth along with the signed Contract.

(2) Primary Location.

(A) The Grantee must provide to the Commonwealth the primary location of performance under the grant award, including the city, State, and zip+4. If performance is to occur in multiple locations, then the Grantee must list the location where the most amount of the grant award is to be expended pursuant to this Contract.

(B) The Grantee must provide this information to the Commonwealth along with the Grantee's return of the signed Contract. The Commonwealth will not process this Contract until such time that the Grantee provides this information.

(3) Compensation of Officers.

(A) The Grantee must provide to the Commonwealth the names and total compensation of the five most highly compensated officers of the entity if:

(i) the entity in the preceding fiscal year received:

(a) 80 percent or more of its annual gross revenues in Federal awards; and

(b) \$30,000,000 or more in annual gross revenues from Federal awards; and

- (ii) the public does not have access to information about the compensation of the senior executives of the entity through periodic reports filed under section 13(a) or 15(d) of the Securities Exchange Act of 1934 (15 U.S.C. 78m(a), 78o(d)) or section 6104 of the Internal Revenue Code of 1986.
- (B) If the Grantee does not meet the conditions listed above, then it must specifically affirm to the Commonwealth that the requirements of this clause are inapplicable to the Grantee.
- (C) The Grantee must provide information responding to this question along with the Grantee's return of the signed Contract. The Commonwealth will not process this Contract until such time that the Grantee provides such information responding to this question.

ARTICLE IV

BONDING, INSURANCE AND TAX LIABILITY REQUIREMENTS

(a) Fidelity Bonding:

Unless otherwise authorized by the Grantor, the Grantee shall procure fidelity bonding for anyone authorized to sign checks, certify vouchers and/or handle or control funds, checks, securities or property. If a check signing machine is used which is not operated under the direct supervision of the authorized signer or counter-signer, the machine operator shall be bonded in the same amount as the check-signer. The amount of the bond required shall be adequate to insure the security of all funds received under this Contract as determined by the Grantor and such bond must be maintained until the Contract is closed out by the Grantor.

(b) Hold Harmless:

The Grantee shall hold the Commonwealth harmless from and indemnify the Commonwealth against any and all claims, demands and actions based or arising out of any activities performed by the Grantee and its employees and agents under this Contract; and shall defend any and all actions brought against the Commonwealth based upon any such claims or demands. It is understood and agreed that the Grantee's standard liability insurance policies shall protect, or shall be endorsed to protect, the Commonwealth from claims of bodily injury and/or property damage arising out of any activities performed by the Grantee or its employees or agents under this Contract, including business and non-business invitees, and their property and all other property sustaining damage as a direct or indirect result of the execution of this project when validly present on Grantee's premises whether or not actually engaged in the project at the time the claim inures. Such policies shall not include any provision limiting then existing sovereign immunity of the Commonwealth or of its agents or employees. Upon request, the Grantee shall furnish to the Grantor proof of insurance as required by this paragraph.

(c) Other Liability Requirements:

The Grantee shall provide workers' compensation insurance where the same is required and shall accept full responsibility for the payment of premiums for workers' compensation and social security and any other taxes or payroll deductions required by law for its employees who are performing activities specified by this Contract.

ARTICLE V
COMPLIANCE WITH APPLICABLE STATUTES AND REGULATIONS

All activities authorized by this Contract shall be performed in accordance with applicable statutes, regulations, conditions, directives, guidelines and such additional requirements as may be attached hereto as Appendix C or are otherwise provided by the Grantor. The Grantee acknowledges that this Contract is subject to all requirements set forth herein and further agrees that it will comply with future requirements determined by the Grantor as necessary.

(a) Compliance with Federal Statutes and Regulations:

The Grantee agrees to comply with all applicable federal statutes and regulations.

(b) Compliance with State Statutes and Regulations:

The Grantee also agrees to comply with all applicable state statutes and regulations.

(c) Nondiscrimination/Sexual Harassment Provisions:

The Grantee agrees:

- (1) In the hiring of any employee(s) for the manufacture of supplies, performance of work, or any other activity required under the grant agreement or any subgrant agreement, contract, or subcontract, the Grantee, a subgrantee, a contractor, a subcontractor, or any person acting on behalf of the Grantee shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the *Pennsylvania Human Relations Act* (PHRA) and applicable federal laws, against any citizen of this Commonwealth who is qualified and available to perform the work to which the employment relates.
- (2) The Grantee, any subgrantee, contractor or any subcontractor or any person on their behalf shall not in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, against or intimidate any of its employees.
- (3) Neither the Grantee nor any subgrantee nor any contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, in the

provision of services under the grant agreement, subgrant agreement, contract or subcontract.

- (4) Neither the Grantee nor any subgrantee nor any contractor nor any subcontractor nor any person on their behalf shall in any manner discriminate against employees by reason of participation in or decision to refrain from participating in labor activities protected under the *Public Employee Relations Act*, *Pennsylvania Labor Relations Act* or *National Labor Relations Act*, as applicable and to the extent determined by entities charged with such Acts' enforcement, and shall comply with any provision of law establishing organizations as employees' exclusive representatives.
- (5) The Grantee, any subgrantee, contractor or any subcontractor shall establish and maintain a written nondiscrimination and sexual harassment policy and shall inform their employees in writing of the policy. The policy must contain a provision that sexual harassment will not be tolerated and employees who practice it will be disciplined. Posting this Nondiscrimination/Sexual Harassment Clause conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the grant services are performed shall satisfy this requirement for employees with an established work site.
- (6) The Grantee, any subgrantee, contractor or any subcontractor shall not discriminate by reason of race, gender, creed, color, sexual orientation, gender identity or expression, or in violation of the PHRA and applicable federal laws, against any subgrantee, contractor, subcontractor or supplier who is qualified to perform the work to which the grant relates.
- (7) The Grantee and each subgrantee, contractor and subcontractor represents that it is presently in compliance with and will maintain compliance with all applicable federal, state, and local laws and regulations relating to nondiscrimination and sexual harassment. The Grantee and each subgrantee, contractor and subcontractor further represents that it has filed a Standard Form 100 Employer Information Report ("EEO-1") with the U.S. Equal Employment Opportunity Commission ("EEOC") and shall file an annual EEO-1 report with the EEOC as required for employers' subject to *Title VII of the Civil Rights Act of 1964*, as amended, that have 100 or more employees and employers that have federal government contracts or first-tier subcontracts and have 50 or more employees. The Grantee, any subgrantee, any contractor or any subcontractor shall, upon request and within the time periods requested by the Commonwealth, furnish all necessary employment documents and records, including EEO-1 reports, and permit access to their books, records, and accounts by the granting agency and the Bureau of Diversity, Inclusion and Small Business Opportunities for the purpose of ascertaining compliance with the provisions of this Nondiscrimination/Sexual Harassment Clause.
- (8) The Grantee, any subgrantee, contractor or any subcontractor shall include the provisions of this Nondiscrimination/Sexual Harassment Clause in every subgrant agreement, contract or subcontract so that those provisions applicable to subgrantees, contractors or subcontractors will be binding upon each

subgrantee, contractor or subcontractor.

- (9) The Grantee's and each subgrantee's, contractor's and subcontractor's obligations pursuant to these provisions are ongoing from and after the effective date of the grant agreement through the termination date thereof. Accordingly, the Grantee and each subgrantee, contractor and subcontractor shall have an obligation to inform the Commonwealth if, at any time during the term of the grant agreement, it becomes aware of any actions or occurrences that would result in violation of these provisions.
- (10) The Commonwealth may cancel or terminate the grant agreement and all money due or to become due under the grant agreement may be forfeited for a violation of the terms and conditions of this Nondiscrimination/Sexual Harassment Clause. In addition, the granting agency may proceed with debarment or suspension and may place the Grantee, subgrantee, contractor, or subcontractor in the Contractor Responsibility File.

(d) Compliance with the State Contractor Responsibility Program:

For the purpose of these provisions, the term Contractor is defined as any person, including, but not limited to, a bidder, offeror, loan recipient, grantee or lessor, who has furnished or performed or seeks to furnish or perform, goods, supplies, services, leased space, construction or other activity, under a contract, grant, lease, purchase order or reimbursement agreement with the Commonwealth of Pennsylvania (Commonwealth). The term Contractor includes a permittee, licensee, or any agency, political subdivision, instrumentality, public authority, or other public entity in the Commonwealth.

- (1) The Contractor certifies, in writing, for itself and its subcontractors required to be disclosed or approved by the Commonwealth, that as of the date of its execution of this Bid/Contract, that neither the Contractor, nor any such subcontractors, are under suspension or debarment by the Commonwealth or any governmental entity, instrumentality, or authority and, if the Contractor cannot so certify, then it agrees to submit, along with its Bid/Contract, a written explanation of why such certification cannot be made.
- (2) The Contractor also certifies, in writing, that as of the date of its execution of this Bid/Contract it has no tax liabilities or other Commonwealth obligations, or has filed a timely administrative or judicial appeal if such liabilities or obligations exist, or is subject to a duly approved deferred payment plan if such liabilities exist.
- (3) The Contractor's obligations pursuant to these provisions are ongoing from and after the effective date of the Contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to inform the Commonwealth if, at any time during the term of the Contract, it becomes delinquent in the payment of taxes, or other Commonwealth obligations, or if it or, to the best knowledge of the Contractor, any of its subcontractors are suspended or debarred by the Commonwealth, the federal government, or any other state or governmental entity. Such notification shall be made within 15 days of the date of suspension or debarment.

- (4) The failure of the Contractor to notify the Commonwealth of its suspension or debarment by the Commonwealth, any other state, or the federal government shall constitute an event of default of the Contract with the Commonwealth.
- (5) The Contractor agrees to reimburse the Commonwealth for the reasonable costs of investigation incurred by the Office of State Inspector General for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commonwealth that results in the suspension or debarment of the contractor. Such costs shall include, but shall not be limited to, salaries of investigators, including overtime; travel and lodging expenses; and expert witness and documentary fees. The Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.
- (6) The Contractor may search the current list of suspended and debarred Commonwealth contractors by visiting the eMarketplace website at <http://www.emarketplace.state.pa.us> and clicking the Debarment List tab.
- (7) The contractor may obtain a current list of suspended and debarred Federal contractors by either searching the internet at <https://www.sam.gov> or contacting the:

SAM Customer Service:
Federal Service Desk
URL: www.fsd.gov
Hours: 8am - 8pm (Eastern Time)
US Calls: 866-606-8220
International Calls: 334-206-7828

- (e) Compliance with the Offset Provision for Commonwealth Contracts:

The Grantee agrees that the Commonwealth may set off the amount of any state tax liability or other debt of the Grantee or its subsidiaries that is owed to the Commonwealth and is not being contested on appeal, against any payments due the Grantee under this or any other Contract with the Commonwealth.

- (f) Compliance with The Americans with Disabilities Act:

For the purpose of these provisions, the term contractor is defined as any person, including, but not limited to, a bidder, offeror, supplier, or grantee, who will furnish or perform or seeks to furnish or perform, goods, supplies, services, construction or other activity, under a purchase order, contract, or grant with the Commonwealth of Pennsylvania (Commonwealth).

During the term of this agreement, the contractor agrees as follows:

- (1) Pursuant to federal regulations promulgated under the authority of the Americans with Disabilities Act, 28 C. F. R. § 35.101 et seq., the contractor understands and agrees that no individual with a disability shall, on the basis of the disability, be excluded from participation in this agreement or from activities provided for under

this agreement. As a condition of accepting and executing this agreement, the contractor agrees to comply with the "General Prohibitions Against Discrimination," 28 C. F. R. § 35.130, and all other regulations promulgated under Title II of the Americans with Disabilities Act which are applicable to the benefits, services, programs, and activities provided by the Commonwealth through contracts with outside contractors.

- (2) The contractor shall be responsible for and agrees to indemnify and hold harmless the Commonwealth from all losses, damages, expenses, claims, demands, suits, and actions brought by any party against the Commonwealth as a result of the contractor's failure to comply with the provisions of paragraph 1.

(g) Reimbursement for Travel:

Reimbursement to the Grantee for any travel, lodging or meals under this Contract shall be at or below federal rates. Expenses in excess of federal rates must be paid from private funding sources. Private funding sources may not include other state or federal funds. Grantee must comply with Grantor's 2011 Fiscal Directive #1 entitled *Federal Travel and Subsistence Allowance Directive*.

(h) Compliance with Anti-Pollution Regulations:

The Grantee and its subcontractors agree that in the performance of their obligations under this Contract they shall minimize pollution and shall strictly comply with all applicable environmental laws and regulations.

(i) Contractor Integrity Provisions:

It is essential that those who seek to contract with the Commonwealth of Pennsylvania ("Commonwealth") observe high standards of honesty and integrity. They must conduct themselves in a manner that fosters public confidence in the integrity of the Commonwealth contracting and procurement process.

- (1) Definitions. For purposes of these Contractor Integrity Provisions, the following terms shall have the meanings found in this Section:

- (A) "Affiliate" means two or more entities where:

- (i) a parent entity owns more than fifty percent of the voting stock of each of the entities; or
 - (ii) a common shareholder or group of shareholders owns more than fifty percent of the voting stock of each of the entities; or
 - (iii) the entities have a common proprietor or general partner.

- (B) "Consent" means written permission signed by a duly authorized officer or employee of the Commonwealth, provided that where the material facts have been disclosed, in writing, by prequalification, bid, proposal, or

contractual terms, the Commonwealth shall be deemed to have consented by virtue of the execution of this contract.

- (C) “Contractor” means the individual or entity that has entered into this contract with the Commonwealth.
 - (D) “Contractor Related Parties” means any affiliates of the Contractor and the Contractor’s executive officers, Pennsylvania officers and directors, or owners of 5 percent or more interest in the Contractor.
 - (E) “Financial Interest” means either:
 - (i) Ownership of more than a five percent interest in any business; or
 - (ii) Holding a position as an officer, director, trustee, partner, employee, or holding any position of management.
 - (F) “Gratuity” means tendering, giving, or providing anything of more than nominal monetary value including, but not limited to, cash, travel, entertainment, gifts, meals, lodging, loans, subscriptions, advances, deposits of money, services, employment, or contracts of any kind. The exceptions set forth in the Governor’s Code of Conduct, Executive Order 1980-18, the 4 Pa. Code §7.153(b), shall apply.
 - (G) “Non-bid Basis” means a contract awarded or executed by the Commonwealth with Contractor without seeking bids or proposals from any other potential bidder or offeror.
- (2) In furtherance of this policy, Contractor agrees to the following:
- (A) Contractor shall maintain the highest standards of honesty and integrity during the performance of this contract and shall take no action in violation of state or federal laws or regulations or any other applicable laws or regulations, or other requirements applicable to Contractor or that govern contracting or procurement with the Commonwealth.
 - (B) Contractor shall establish and implement a written business integrity policy, which includes, at a minimum, the requirements of these provisions as they relate to the Contractor activity with the Commonwealth and Commonwealth employees and which is made known to all Contractor employees. Posting these Contractor Integrity Provisions conspicuously in easily-accessible and well-lighted places customarily frequented by employees and at or near where the contract services are performed shall satisfy this requirement.

- (C) Contractor, its affiliates, agents, employees and anyone in privity with Contractor shall not accept, agree to give, offer, confer, or agree to confer or promise to confer, directly or indirectly, any gratuity or pecuniary benefit to any person, or to influence or attempt to influence any person in violation of any federal or state law, regulation, executive order of the Governor of Pennsylvania, statement of policy, management directive or any other published standard of the Commonwealth in connection with performance of work under this contract, except as provided in this contract.
- (D) Contractor shall not have a financial interest in any other contractor, subcontractor, or supplier providing services, labor, or material under this contract, unless the financial interest is disclosed to the Commonwealth in writing and the Commonwealth consents to Contractor's financial interest prior to Commonwealth execution of the contract. Contractor shall disclose the financial interest to the Commonwealth at the time of bid or proposal submission, or if no bids or proposals are solicited, no later than Contractor's submission of the contract signed by Contractor.
- (E) Contractor certifies to the best of its knowledge and belief that within the last five (5) years Contractor or Contractor Related Parties have not:
 - (i) been indicted or convicted of a crime involving moral turpitude or business honesty or integrity in any jurisdiction;
 - (ii) been suspended, debarred or otherwise disqualified from entering into any contract with any governmental agency;
 - (iii) had any business license or professional license suspended or revoked;
 - (iv) had any sanction or finding of fact imposed as a result of a judicial or administrative proceeding related to fraud, extortion, bribery, bid rigging, embezzlement, misrepresentation or anti-trust; and
 - (v) been, and is not currently, the subject of a criminal investigation by any federal, state or local prosecuting or investigative agency and/or civil anti-trust investigation by any federal, state or local prosecuting or investigative agency.

If Contractor cannot so certify to the above, then it must submit along with its bid, proposal or contract a written explanation of why such certification cannot be made and the Commonwealth will determine whether a

contract may be entered into with the Contractor. The Contractor's obligation pursuant to this certification is ongoing from and after the effective date of the contract through the termination date thereof. Accordingly, the Contractor shall have an obligation to immediately notify the Commonwealth in writing if at any time during the term of the contract it becomes aware of any event which would cause the Contractor's certification or explanation to change. Contractor acknowledges that the Commonwealth may, in its sole discretion, terminate the contract for cause if it learns that any of the certifications made herein are currently false due to intervening factual circumstances or were false or should have been known to be false when entering into the contract.

- (F) Contractor shall comply with the requirements of the Lobbying Disclosure Act (65 Pa.C.S. §13A01 et seq.) regardless of the method of award. If this contract was awarded on a Non-bid Basis, Contractor must also comply with the requirements of the Section 1641 of the Pennsylvania Election Code (25 P.S. §3260a).
- (G) When Contractor has reason to believe that any breach of ethical standards as set forth in law, the Governor's Code of Conduct, or these Contractor Integrity Provisions has occurred or may occur, including but not limited to contact by a Commonwealth officer or employee which, if acted upon, would violate such ethical standards, Contractor shall immediately notify the Commonwealth contracting officer or the Office of the State Inspector General in writing.
- (H) Contractor, by submission of its bid or proposal and/or execution of this contract and by the submission of any bills, invoices or requests for payment pursuant to the contract, certifies and represents that it has not violated any of these Contractor Integrity Provisions in connection with the submission of the bid or proposal, during any contract negotiations or during the term of the contract, to include any extensions thereof. Contractor shall immediately notify the Commonwealth in writing of any actions for occurrences that would result in a violation of these Contractor Integrity Provisions. Contractor agrees to reimburse the Commonwealth for the reasonable costs of investigation incurred by the Office of the State Inspector General for investigations of the Contractor's compliance with the terms of this or any other agreement between the Contractor and the Commonwealth that results in the suspension or debarment of the Contractor. Contractor shall not be responsible for investigative costs for investigations that do not result in the Contractor's suspension or debarment.

- (I) Contractor shall cooperate with the Office of the State Inspector General in its investigation of any alleged Commonwealth agency or employee breach of ethical standards and any alleged Contractor non-compliance with these Contractor Integrity Provisions. Contractor agrees to make identified Contractor employees available for interviews at reasonable times and places. Contractor, upon the inquiry or request of an Inspector General, shall provide, or if appropriate, make promptly available for inspection or copying, any information of any type or form deemed relevant by the Office of the State Inspector General to Contractor's integrity and compliance with these provisions. Such information may include, but shall not be limited to, Contractor's business or financial records, documents or files of any type or form that refer to or concern this contract. Contractor shall incorporate this paragraph in any agreement, contract or subcontract it enters into in the course of the performance of this contract/agreement solely for the purpose of obtaining subcontractor compliance with this provision. The incorporation of this provision in a subcontract shall not create privity of contract between the Commonwealth and any such subcontractor, and no third party beneficiaries shall be created thereby.
- (J) For violation of any of these Contractor Integrity Provisions, the Commonwealth may terminate this and any other contract with Contractor, claim liquidated damages in an amount equal to the value of anything received in breach of these Provisions, claim damages for all additional costs and expenses incurred in obtaining another contractor to complete performance under this contract, and debar and suspend Contractor from doing business with the Commonwealth. These rights and remedies are cumulative, and the use or non-use of any one shall not preclude the use of all or any other. These rights and remedies are in addition to those the Commonwealth may have under law, statute, regulation, or otherwise.

(j) Compliance with the Prohibition of Illegal Alien Labor on Assisted Projects Act:

Pursuant to the Act of May 11, 2006 (P.L. 173, No. 43), known as the Prohibition of Illegal Alien Labor on Assisted Projects Act, the Grantee shall not knowingly employ, or knowingly permit any of its subcontractors to knowingly employ, the labor services of an illegal alien on activities funded in whole or in part by a grant or loan issued by an executive agency of the Commonwealth of Pennsylvania.

In the event that the Grantee

- (A) knowingly employs, or knowingly permits any of its subcontractors to knowingly employ, the labor services of an illegal alien on activities funded in whole or in part by grants or loans issued by an executive agency of the Commonwealth of Pennsylvania; and

- (B) the Grantee or any of its subcontractors are sentenced under Federal law for an offense involving knowing use of labor by an illegal alien on activities funded in whole or in part by grants or loans issued by an executive agency of the Commonwealth of Pennsylvania,

the Grantee shall:

- (A) repay all grant funds received by the Grantee from the Grantor pursuant to this Contract, in accordance with instructions to be provided by the Grantor, and
- (B) be ineligible to apply for any Commonwealth grant or loan for a period of two years.

(k) Right to Know Law Provisions:

- (1) The Grantee or Subgrantee understands that the Grant Agreement and records related to or arising out of the Grant Agreement are subject to requests made pursuant to the Pennsylvania Right-to-Know Law, 65 P.S. §§ 67.101-3104, ("RTKL"). For the purpose of these provisions, the term "the Commonwealth" shall refer to the Department of Community and Economic Development.
- (2) If the Commonwealth needs the Grantee's or Subgrantee's assistance in any matter arising out of the RTKL related to this Grant Agreement, it shall notify the Grantee or Subgrantee using the legal contact information provided in the Grant Agreement. The Grantee or Subgrantee, at any time, may designate a different contact for such purpose upon reasonable prior written notice to the Commonwealth.
- (3) Upon written notification from the Commonwealth that it requires Grantee's or Subgrantee's assistance in responding to a request under the RTKL for information related to this Grant Agreement that may be in Grantee's or Subgrantee's possession, constituting, or alleged to constitute, a public record in accordance with the RTKL ("Requested Information"), Grantee or Subgrantee shall:
 - (A) Provide the Commonwealth, within ten (10) calendar days after receipt of written notification, access to, and copies of, any document or information in Grantee's or Subgrantee's possession arising out of this Grant Agreement that the Commonwealth reasonably believes is Requested Information and may be a public record under the RTKL; and
 - (B) Provide such other assistance as the Commonwealth may reasonably request, in order to comply with the RTKL with respect to this Grant Agreement.
- (4) If Grantee or Subgrantee considers the Requested Information to include a request for a Trade Secret or Confidential Proprietary Information, as those terms

are defined by the RTKL, or other information that Grantee or Subgrantee considers exempt from production under the RTKL, Grantee or Subgrantee must notify the Commonwealth and provide, within seven (7) calendar days of receiving the written notification, a written statement signed by a representative of Grantee or Subgrantee explaining why the requested material is exempt from public disclosure under the RTKL.

- (5) The Commonwealth will rely upon the written statement from Grantee or Subgrantee in denying a RTKL request for the Requested Information unless the Commonwealth determines that the Requested Information is clearly not protected from disclosure under the RTKL. Should the Commonwealth determine that the Requested Information is clearly not exempt from disclosure, Grantee or Subgrantee shall provide the Requested Information within five (5) business days of receipt of written notification of the Commonwealth's determination.
 - (6) If Grantee or Subgrantee fails to provide the Requested Information within the time period required by these provisions, Grantee or Subgrantee shall indemnify and hold the Commonwealth harmless for any damages, penalties, costs, detriment or harm that the Commonwealth may incur as a result of Grantee's or Subgrantee's failure, including any statutory damages assessed against the Commonwealth.
 - (7) The Commonwealth will reimburse Grantee or Subgrantee for any costs associated with complying with these provisions only to the extent allowed under the fee schedule established by the office of Open Records or as otherwise provided by the RTKL if the fee schedule is inapplicable.
 - (8) Grantee or Subgrantee may file a legal challenge to any Commonwealth decision to release a record to the public with the Office of Open Records, or in the Pennsylvania Courts, however, Grantee or Subgrantee shall indemnify the Commonwealth for any legal expenses incurred by the Commonwealth as a result of such a challenge and shall hold the Commonwealth harmless for any damages, penalties, costs, detriment or harm that the Commonwealth may incur as a result of Grantee's or Subgrantee's failure, including any statutory damages assessed against the Commonwealth, regardless of the outcome of such legal challenge. As between the parties, Grantee or Subgrantee agrees to waive all rights or remedies that may be available to it as a result of the Commonwealth's disclosure of Requested Information pursuant to the RTKL.
 - (9) The Grantee's or Subgrantee's duties relating to the RTKL are continuing duties that survive the expiration of this Grant Agreement and shall continue as long as the Grantee or Subgrantee has Requested Information in its possession.
- (I) Federal Contracting Provisions:
- (1) Contracting with Small and Minority Businesses, Women's Business Enterprises, and Labor Surplus Area Firms (2 CFR 200.321)

- (A) The Grantee must take all necessary affirmative steps to assure that minority businesses, women's business enterprises, and labor surplus area firms are used when possible.
- (B) Affirmative steps must include:
 - (i) Placing qualified small and minority businesses and women's business enterprises on solicitation lists;
 - (ii) Assuring that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
 - (iii) Dividing total requirements, when economically feasible, into smaller tasks or quantities to permit maximum participation by small and minority businesses, and women's business enterprises;
 - (iv) Establishing delivery schedules, where the requirement permits, which encourage participation by small and minority businesses, and women's business enterprises;
 - (v) Using the services and assistance, as appropriate, or such organizations as the Small Business Administration and the Minority Business Development Agency of the U.S. Department of Commerce; and
 - (vi) Requiring the prime contractor, if subcontracts are to be let, to take the affirmative steps listed in paragraphs (A) through (E) above.

(2) Procurement of Recovered Materials

If the Grantee is an agency of a political subdivision of the Commonwealth of Pennsylvania, the Grantee must comply with section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act. The requirements of Section 6002 include procuring only items designated in guidelines of the Environmental Protection Agency ("EPA") at 40 CFR Part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired during the preceding fiscal year exceeded \$10,000; procuring solid waste management services in a manner that maximizes energy and resource recovery; and establishing an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines.
(2 CFR 200.322).

(3) Remedies

All subcontracts exceeding \$150,000 must address administrative, contractual, or legal remedies in instances where subcontractors violate or breach contract terms, and provide for such sanctions and penalties as appropriate.
(2 CFR Part 200 Appendix II (A)).

(4) Termination Provisions

All subcontracts exceeding \$10,000 must address termination for cause and for convenience by the Grantee including the manner by which it will be effected and the basis for settlement.
(2 CFR Part 200 Appendix II (B)).

(5) Equal Employment Opportunity Provisions:

If the Project involves construction and the construction contract exceeds \$10,000, the Grantee must include the equal opportunity clause provided under 41 CFR 60-1.4(b), in accordance with Executive Order 11246 entitled "Equal Employment Opportunity" (30 FR 12319, 12935, 3 CFR Part, 1964-1965 Comp., p. 339), as amended by Executive Order 11375 entitled "Amending Executive Order 11246 Relating to Equal Employment Opportunity," and implementing regulations at 41 CFR part 60 entitled "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor."
(2 CFR Part 200 Appendix II (C)).

(6) Davis-Bacon Act Provisions:

When required by Federal program legislation, all prime construction contracts in excess of \$2,000 awarded by the Grantee pursuant to this Contract must include a provision for compliance with the Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) as supplemented by the Department of Labor regulations (29 CFR part 5 entitled "Labor Standards Provisions Applicable to Contracts Covering Federally Financed and Assisted Construction"). In accordance with the statute, contractors must be required to pay wages to laborers and mechanics at a rate not less than the prevailing wages specified in a wage determination made by the Secretary of Labor. In addition, contractors must be required to pay wages not less than once a week. The Grantee must place a copy of the current prevailing wage determination issued by the Department of Labor in each solicitation. The decision to award a contract must be conditioned upon the acceptance of the wage determination. The Grantee must report all suspected or reported violations to the Grantor. The contract must also include a provision for compliance with the Copeland "Anti-Kickback" Act (40 U.S.C. 3145), as supplemented by Department of Labor regulations (29 CFR Part 3 entitled "Contractors and Subcontractors on Public Building or Public Work Financed in Whole or in Part by Loans or Grants from the United States"). The Copeland "Anti-Kickback Act provides that each contractor must be prohibited from inducing, by any means, any person employed in the construction, completion, or repair of public work, to give up any part of the compensation to which he or she

is otherwise entitled. The Grantee must report all suspected or reported violations to the Federal awarding agency. (2 CFR Part 200 Appendix II (D)).

(7) Contract Work Hours and Safety Standards Act (40 U.S.C. 3701-3708)

Where applicable, all contracts awarded by the Grantee in excess of \$100,000 that involve the employment of mechanics or laborers must include a provision for compliance with 40 U.S.C. 3702 and 3704, as supplemented by the Department of Labor regulations (29 CFR Part 5). Under 40 U.S.C. 3702 of the Act, each contractor must be required to compute the wages of every mechanic or laborer on the basis of a standard work week of 40 hours. Work in excess of the standard work week is permissible provided that the worker is compensated at a rate of not less than one and a half times the basic rate of pay for all hours worked in excess of 40 hours in the work week. The requirements of 40 U.S.C. 3704 are applicable to construction work and provide that no laborer or mechanic must be required to work in surroundings or under working conditions which are unsanitary, hazardous or dangerous. These requirements do not apply to the purchases of supplies or materials or articles ordinarily available on the open market, or contracts for transportation or transmission of intelligence. (2 CFR Part 200 Appendix II (E)).

(8) Rights to Inventions Made Under a Contract or Agreement.

If the Grantee enters into a contract with a small business firm or nonprofit organization regarding the substitution of parties, assignment or performance of experimental, developmental, or research work under this Contract, the Grantee must comply with the requirements of 37 CFR Part 401 entitled "Rights to Inventions Made by Nonprofit Organizations and Small Business Firms Under Government Grants, Contracts and Cooperative Agreements," and any implementing regulations issued by the Federal awarding agency. (2 CFR Part 200 Appendix II (F)).

(9) Clean Air Act (42 U.S.C. 7401-7671q.) and Federal Water Pollution Control Act (33 U.S.C. 1251-1387, as amended). The Grantee must comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act and the Federal Water Pollution Control Act as amended. Violations must be reported to the Grantor. Subcontracts in excess of \$150,000 must contain this provision. (2 CFR Part 200 Appendix II (G)).

(10) Debarment and Suspension.

The Grantee may not enter into subcontracts with parties listed on the government-wide exclusions in the System for Award Management ("SAM"), in accordance with the OMB guidelines at 2 CFR 180 that implement Executive Orders 12549 (3 CFR part 1986 Comp., p. 189) and 12689 Comp. p. 235), "Debarment and Suspension". SAM Exclusions contains the names of parties debarred, suspended, or otherwise excluded by agencies, as well as parties

declared ineligible under statutory or regulatory authority other than Executive Order 12549.

(2 CFR Part 200 Appendix II (H)).

- (11) Byrd Anti-Lobbying Amendment (31 U.S.C. 1352).

The Grantee and its subcontractors must when applying or bidding for an award exceeding \$100,000 file the required certification under the Byrd Anti-Lobbying Amendment. Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of any agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier must also disclose any lobbying with non-Federal funds that takes place in connection with obtaining any Federal award. Such disclosures are forwarded from tier to tier up to the Grantor.

(2 CFR Part 200 Appendix II (I)).

ARTICLE VI ASSIGNMENT, TRANSFER, COLLATERAL USE

This Contract shall be binding upon and inure to the benefit of the Grantor, the Grantee, and their respective successors and assigns, except that the Grantee may not assign or transfer its rights hereunder without the prior written consent of the Grantor. Approval of an assignment does not establish any legal relationship between the Commonwealth or the Grantor and any other third party, and under no circumstances shall the Commonwealth be held liable for any act or omission committed pursuant to such an assignment.

ARTICLE VII INDEPENDENT CONTRACTOR

Notwithstanding anything contained herein to the contrary, the rights and duties hereby granted to and assumed by the Grantee are those of an independent contractor only. Nothing contained herein shall be so construed as to create an employment, agency or partnership relationship between the Grantor and the Grantee.

ARTICLE VIII INTEREST OF PARTIES AND OTHERS

No officer, member, employee, independent contractor or elected official of the Commonwealth and no member of its governing body who exercises any functions or responsibilities in the review or approval of activities being performed under this Contract shall participate in any decision relating to this Contract which affects his/her personal interest or the interest of any corporation, partnership or association in which he/she is directly or indirectly interested. Nor shall any such officer, member, elected official or employee of the Commonwealth or any member of its governing body have any interest direct or indirect in this Contract or the proceeds thereof.

The Grantee covenants that the Grantee (including directors, officers, members and employees of the Grantee) presently has no interest and shall not acquire any interest, directly or indirectly, which would conflict in any manner or degree with the performance of activities required to be performed under this Contract. The Grantee further covenants that no person having any such interest shall be employed in the performance of activities for this Contract.

ARTICLE IX SUBCONTRACTS

The Grantee shall not execute or concur in any subcontract with any person or entity in any respect concerning the activities herein without prior written approval of the Grantor. Such prior written approval shall not be required for the purchase by the Grantee of articles, supplies, equipment and activities which are both necessary for and merely incidental to the performance of the work required under this Contract. The Grantee shall not execute or concur in any subcontract declared disapproved by the Grantor.

A subcontractor shall be automatically disapproved, without a declaration from the Grantor, if the subcontractor is currently or becomes suspended or debarred by the Commonwealth or the federal government. In any event, the Grantee shall be responsible for the quantity and quality of the performance of any of its subcontracts.

All subcontracts must contain provisions of nondiscrimination/sexual harassment as specified in the Article entitled Compliance with Applicable Statutes and Regulations, subsection (b) and, where applicable, must contain the federal contracting provisions as specified in the Article entitled Compliance with Applicable Statutes and Regulations subsection (I). In addition, all subcontracts involving the pass through of Contract funds to subrecipients must include the audit requirements contained in the Article entitled Contract Audit and Closeout Requirements. The Grantee is responsible for ensuring that all required audits of subcontractors are performed, and for resolving any findings contained in the audit reports. All costs deemed unallowable in the subcontract audit report are required to be returned to the Grantor, through the Grantee.

ARTICLE X BIDDING REQUIREMENTS

If the Grantee is a political subdivision or other entity for which open and competitive bidding procedures have been established by law, the Grantee shall comply with those procedures if they are applicable to the project being funded with the grant funds. Otherwise, the Grantee shall comply with open and competitive bidding procedures in awarding any and all grants, subgrants, contracts, subcontracts or other agreements in excess of \$10,000.00 for construction, reconstruction, demolition, alteration and/or repair, for acquisition of machinery and equipment, or for engagement of the services of a professional consultant, when said grants, subgrants, contracts, subcontracts or other agreements are funded in whole or at least 50% in part with funds made available under this Contract. Open and competitive bidding procedures require the Grantee to obtain a minimum of three arm's length bids from vendors capable of providing the goods and/or performing the services requested. Arm's length transactions occur when the parties to the transaction are not related to one another and each party is acting in its own self-interest. The Grantor may require the Grantee to submit proof of compliance with said procedures, and failure to provide such proof to the satisfaction of the Grantor may result in termination of the Contract and repayment of all or a portion of the funds available under this Contract. Upon written request and for good cause shown, the Grantor

may, at the Grantor's sole discretion, permit the Grantee to use an alternative procedure for solicitation of bids not inconsistent with law.

ARTICLE XI RECORDS

The Grantee, using accepted procedures, shall maintain at its principal office or place of business complete and accurate records and accounts including documents, correspondence and other evidence pertaining to costs and expenses of this Contract, and reflecting all matters and activities covered by this Contract. At any time during normal business hours and as often as the Grantor deems necessary, the Grantee shall make available for inspection by the Grantor, the Commonwealth Auditor General, the Commonwealth Attorney General, the Federal awarding agency, the Inspectors General or the Comptroller General of the United States, or their duly authorized representative, all of its records with respect to all matters covered by this Contract and will permit the Grantor to audit, examine and make copies of such records.

All required records shall be maintained by the Grantee for a period of three (3) years from the date of final audit or close out of this Contract by the Grantor, except in those cases where unresolved audit questions or litigation may require maintaining some or all records for a longer period. In such event, records shall be maintained until all pending matters are resolved. (2 CFR 200.333).

ARTICLE XII PROGRESS REPORTS

The Grantee and its subcontractors shall furnish to the Grantor such progress reports in such form and quantity as the Grantor may from time to time require, including, but not limited to, status reports of the project, project account statements, certificates, approvals, proposed budgets, invoices, copies of all contracts executed and proposed, employment placements, follow-up reports and any and all other information relative to the Contract as may be requested. The Grantor or its representative shall have the right to make reasonable inspections to monitor the Grantee's performance under this Contract.

In the event that the Grantor determines that the Grantee or its subcontractor(s) has not furnished such reports as required by the Grantor, the Grantor, by giving written notice to the Grantee, may suspend payments under this Contract until such time as the required reports are submitted.

ARTICLE XIII ACKNOWLEDGMENT OF COMMONWEALTH ASSISTANCE

Any publication concerning a project financed by the Grantor will acknowledge Commonwealth financial assistance as follows:

"This Project was financed *[in part]* by a grant
from the Commonwealth of Pennsylvania,
[insert name of Grantor]."

Any publication concerning a project financed by federal funds received under a grant administered by the Grantor will acknowledge Commonwealth grant administration as follows:

"This Project was financed *[in part]* by a grant from the federal Department of *[Name]*, under the administration of the Commonwealth of Pennsylvania, *[insert name of Grantor]*."

Signs acknowledging said Commonwealth financial assistance or administrative participation will be erected in the project area as soon as possible after the effective date of this Contract. Acknowledgment of Commonwealth financial assistance may be combined with acknowledgment of other funding sources on project signs or in project publications.

ARTICLE XIV AUDIT REQUIREMENTS

- (a) Audit Clause for Federal Grants (Management Directive 325.9 (5)(c))
- (1) The Grantee must comply with all applicable federal and state grant requirements including *The Single Audit Act Amendments of 1996*; *2 CFR Part 200 as amended*; and any other applicable law or regulation, and any amendment to such other applicable law or regulation that may be enacted or promulgated by the federal government.
 - (2) If the Grantee is a local government or non-profit organization that expends \$750,000 or more in federal awards during its fiscal year, the Grantee is required to provide the appropriate single or program specific audit in accordance with the provisions outlined in *2 CFR Part 200.501*.
 - (3) If the Grantee expends total federal awards of less than the threshold established by *2 CFR 200.501*, it is exempt from federal audit requirements for that year, but records must be available for review or audit by appropriate officials (or designees) of the federal agency, pass-through entity, and Government Accountability Office (GAO).
 - (4) If the Grantee is a for-profit entity, it is not subject to the auditing and reporting requirements of *2 CFR Part 200, Subpart F – Audit Requirements (Subpart F)*. However, the Grantor is responsible for establishing requirements, as necessary, to ensure compliance by for-profit subrecipients. The contract with the for-profit subrecipient should describe applicable compliance requirements and the for-profit subrecipient's compliance responsibility. Methods to ensure compliance for federal awards made to for-profit subrecipients may include pre-award audits, monitoring during the contract and post-award audits. The post-award audits may be in the form of a financial audit in accordance with *Government Auditing Standards*, a single audit report or program-specific audit report in accordance with *Subpart F*. However, these post-award audits must be submitted directly to the Grantor. Only single audit reports for local governmental and non-profit subrecipients are electronically submitted to the Federal Audit Clearinghouse.

(b) Additional Potential Components of the Single Audit Reporting Package (Management Directive 325.9 (5)(c))

- (1) In instances where a federal program-specific audit guide is available, the audit report package for a program-specific audit may be different and should be prepared in accordance with the appropriate audit guide, *Government Auditing Standards*, and *Subpart F*.
- (2) In addition to the requirements of *Subpart F*, commonwealth agencies may require that the single audit reporting packages include additional components in the SEFA, or supplemental schedules, as identified through the respective grant agreement.

(c) Submission of the Audit Report (Management Directive 325.9 (5)(c))

The Grantee must submit an electronic copy of the audit report package to the Federal Audit Clearinghouse, which shall include the elements outlined in *Subpart F*.

(d) Submission of the Federal Audit Clearinghouse Confirmation (Management Directive 325.9 (5)(c))

The Grantee must send a copy of the confirmation from the Federal Audit Clearinghouse to the resource account RA-BOASingleAudit@pa.gov.

(e) Audit Oversight Provisions (Management Directive 325.9 (5)(c))

- (1) The Grantee is responsible for obtaining the necessary audit and securing the services of a certified public accountant or independent governmental auditor.
- (2) The Commonwealth reserves the right for federal and state agencies or their authorized representatives to perform additional audits of a financial or performance nature, if deemed necessary by commonwealth or federal agencies. Any such additional audit work will rely on work already performed by the Grantee's auditor and the costs for any additional work performed by the federal or state agencies will be borne by those agencies at no additional expense to the Grantee.
- (3) Audit Documentation and audit reports must be retained by the Grantee's auditor for a minimum of five years from the date of issuance of the audit report, unless the Grantee's auditor is notified in writing by the commonwealth, the cognizant federal agency for audit, or the oversight federal agency for audit to extend the retention period. Audit documentation will be made available upon request to authorized representatives of the commonwealth, the cognizant federal agency for audit, the oversight federal agency for audit, the federal funding agency, or the GAO.

(f) Project Closeout Procedures.

The submission of a Single Audit does not exempt the Grantee from complying with project closeout procedures as may be issued by the Grantor, including, but not limited to, the submission of a financial statement of the project after termination of project activities.

**ARTICLE XV
TEMPORARY SUSPENSION OF THE CONTRACT**

Upon written notice and at any time during the period covered under this Contract, the Grantor may suspend payments and/or request suspension of all or any part of the Contract activities. The Grantor may give such notice to suspend for the following reasons:

- (a) Violations of laws and regulations, audit exceptions, misuse of funds, failure to submit required reports or when responsible public officials or private citizens make allegations of mismanagement, malfeasance or criminal activity.
- (b) When, in the opinion of the Grantor, the activities cannot be continued in such manner as to adequately fulfill the intent of statute or regulations due to act of God, strike or disaster.

During the term of suspension, the Grantor and Grantee shall retain and hold available any and all funds previously approved for application to the activities. During this period all such funds held by the Grantee shall be placed in an interest bearing program expenditures account. The Grantee may not expend any such funds during the period that the Contract is suspended except pursuant to order of a court of competent jurisdiction. The Grantee shall have the right to cure any default or other circumstance that is the basis for suspension of this Contract within a reasonable period of time.

This Contract is also conditioned upon complete performance by the Grantee of past agreements or contracts between the Grantor and the Grantee. Complete performance includes the Grantee's timely submission of the required final audit of past agreements or contracts to the Grantor. In the event that the Grantor determines that there has been incomplete performance of past agreements or contracts by the Grantee, the Grantor, by giving written notice to the Grantee, will suspend payments under this Contract until such time as the Grantee has fulfilled its obligations under past agreements or contracts to the satisfaction of the Grantor. When the Grantee has fulfilled its obligation under past agreements or contracts to Grantor's satisfaction, the Grantor will resume payments under this Contract.

**ARTICLE XVI
TERMINATION OF THE CONTRACT**

The Grantor may terminate this Contract at any time for its convenience or for any other reason if it determines that termination is in its best interests, or is otherwise appropriate, by giving written notice to the Grantee of such termination and specifying the effective date thereof. Termination pursuant to this section shall not be applicable to funds that the Grantee is legally or contractually obligated to pay as a result of project activities entered into prior to the date that it receives written notice of termination. All grant monies not legally or contractually obligated,

plus accrued interest, shall be returned to the Grantor on or before the effective date of termination and all project records shall be made available to the Grantor.

ARTICLE XVII ENTIRE AGREEMENT

This Contract, when signed by all the parties hereto, constitutes the full and complete understanding and agreement of the parties of its express terms as provided above.

No provision of this Contract shall be construed in any manner so as to create any rights in third parties not party to this Contract. It shall be interpreted solely to define specific duties and responsibilities between the Grantor and the Grantee and shall not provide any basis for claims of any other individual, partnership, corporation, organization or municipal entity.

ARTICLE XVIII AMENDMENTS AND MODIFICATIONS

A properly executed Contract amendment is required to change the termination date of this Contract, to change the Contract Activity Period, to amend the grant amount or to make major changes in the approved program scope, objectives or methods. Such an amendment must be executed if there is a significant change in the activities to be conducted under this Contract. Other revisions to the Project Description or Budget may be made upon written approval from the Grantor after prior written request of the Grantee; provided, the request is made by the Grantee and approved by the Grantor prior to the termination or expiration of the Contract.

ARTICLE XIX SEVERABILITY

Should any section or any part of any section of this Contract be rendered void, invalid or unenforceable by any court of law, for any reason, such a determination shall not render void, invalid, or unenforceable any other section or part of any section of this Contract.

ARTICLE XX CONSTRUCTION

This Contract shall be interpreted and construed in accordance with federal law, where applicable, and with the laws of the Commonwealth. All of the terms and conditions of this Contract are expressly intended to be construed as covenants as well as conditions. The titles of the sections and subsections herein have been inserted as a matter of convenience and reference only and shall not control or affect the meaning or construction of any of the terms or provisions herein.

ARTICLE XXI
NONWAIVER OF REMEDIES

No delay or failure on the part of the Grantor in exercising any right, power or privilege hereunder shall affect such right, power or privilege; nor shall any single or partial exercise thereof or any abandonment, waiver, or discontinuance of steps to enforce such a right, power or privilege preclude any other or further exercise thereof, or the exercise of any other right, power or privilege. The rights and remedies of the Grantor hereunder are cumulative and concurrent and not exclusive of any rights or remedies which it might otherwise have. The Grantor shall have the right at all times to enforce the provisions of this Contract in accordance with the terms hereof notwithstanding any conduct or custom on the part of the Grantor in refraining from so doing at any time or times. The failure of the Grantor at any time or times to enforce its rights under such provisions, in accordance with the same, shall not be construed as having created a custom in any way or manner contrary to specific provisions of this Contract or as having in any way or manner modified or waived the same.

[Remainder of page left intentionally blank.]

IN WITNESS WHEREOF the parties hereunto have set their hands and seals on:

HARMONVILLE FIRE COMPANY NUMBER

1

Vendor Number **119830**

GRANTEE: Please sign & complete at "X's" only



X By: [Signature Affixed Electronically – see last page]

X Title [Affixed Electronically – see last page]

X Date [Affixed Electronically – see last page]

X By: [Signature Affixed Electronically – see last page]

X Title [Affixed Electronically – see last page]

X Date [Affixed Electronically – see last page]

For Commonwealth signatures only



Approved as to Legality and Form

[Signature Affixed Electronically – see last page]
Office of Chief Counsel Date

Preapproved Form #4-FA-26.0
Office of General Counsel Date

Preapproved Form #4-FA-26.0
Office of Attorney General Date

For Commonwealth signatures only



**Commonwealth of Pennsylvania
Acting through the
Department of Community and
Economic Development**

[Signature Affixed Electronically – see last page]
Secretary/Deputy Secretary Date

Approved:

I hereby certify that funds in the amount of
\$200,000 are available under Appropriations
Symbol:

**8730700792 2430102000 P00011000002 6600700
2021 - \$200,000**

Program **COVID-19 ARPA Pandemic Response**
Contract # **C000083534**
CFDA # **21.027**

Comptroller approved as to fiscal responsibility,
budgetary appropriateness and availability of funds:

[Signature Affixed Electronically – see last page]
Comptroller Date

The Harmonville Fire Company #1 was affected like many first responders during the Covid-19 pandemic. With so many unknowns in the beginning about the spread and effectiveness of Covid-19, our department immediately instituted procedures to ensure as little transmission would happen amongst members without hindering our duty to respond to emergencies.

Our emergency first responders are at a higher risk of exposure to airborne virus's including Covid while performing their life saving duties to the community. The Harmonville Fire Company needs to install an HVAC system that filters the air, reducing the risk of exposure/spread while at the station from these airborne viruses. As with so many other volunteer organizations, the pandemic drastically reduced our fundraising efforts and funds from this grant will help with this project.

The Harmonville Fire Company will directly use all \$200,000 dollars of this funding towards the procurement and proper install of the HVAC filtration system mentioned above.

Add funding source		COVID-19 ARPA Pandemic Response Grant Program	Total
Please Select a Category			
Add Category			
Machinery & Equipment - Collapse		\$200,000.00	
New Equipment Purchase	Remove	\$200,000.00	\$200,000.00
Total		\$200,000.00	
		Budget Total:	\$200,000.00

**SPECIAL CONDITIONS AND ASSURANCES
COVID-19 ARPA PANDEMIC RECOVERY PROGRAM**

Eligible Use:

Funds may be used:

- (a) To respond to the COVID-19 public health emergency or its negative economic impacts, including assistance to households, small businesses, and nonprofits, or aid to impacted industries such as tourism, travel and hospitality;
- (b) To response to workers performing essential work during the COVID-19 public health emergency buy providing premium pay to eligible workers;
- (c) For the provision of government services to the extent of the reduction in revenue due to the COVID-19 public health emergency relative to revenues collected in the most recent full fiscal year prior to the emergency; and
- (d) To make necessary investments in water, sewer, or broadband infrastructure.

For any activity undertaken pursuant to the Contract, the Grantee must:

- (1) identify a need or negative impact of COVID-19 public health emergency;
- (2) comply with requirements identified for the Expenditure Category (see listing on Appendix D) assigned by the Grantor for each activity, by title and number assigned; and
- (3) identify how the grant activities address the identified need or negative impact.

The Grantee must maintain records to support their assessment of the need and how the funds provided under the Contract addressed that need.

Expenditure of Funds:

The Grantee must expend all grant funds by December 31, 2024.

Financial Requirements:

The Grantee shall comply with the requirements and policies of 2 CRF Part 200: "Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards", including the cost principles and restrictions on general provisions for selected items of cost.

Public Access to Records

The Grantee shall provide citizens reasonable access to records regarding the use of grant funds, consistent with applicable State and local laws regarding privacy and obligations of confidentiality. The Grantee is subject to requests for records made pursuant to the Pennsylvania Right-To-Know Law, 65 P.S. §§ 67.101-3104, when such requests relate to or arise out of the grant agreement into which the Grantee has entered into with the Grantor. The Pennsylvania Right-To-Know-Law provisions appear in Section (k) of Article V, Compliance with Applicable Statutes and Department Regulations, of this Contract.

Civil Rights Compliance

The Grantee shall comply with the legal requirements relating to nondiscrimination and nondiscriminatory use of Federal funds. Grantee may not deny benefits or services, or otherwise discriminate on the basis of race, color, national origin (including sexual orientation and gender identity), in accordance with the following authorities:

- (1) Title VI of the Civil Rights Act of 1964, P.L. 88-352 (42 U.S.C. 2000d-1 et. seq.) and the regulations issued pursuant thereto (31 CFR Part 22), which provides that no person in the United States shall, on the grounds of race, color, or national origin be excluded from participation in, be denied the benefits of, or be otherwise subjected to discrimination under any program or activity for which the Grantee receives Federal financial assistance.

- (2) Section 504 of the Rehabilitation Act of 1973 (Section 504), Public Law 93-112, as amended by Public Law 93-516, 29 U.S.C. 794, which provide that no otherwise qualified individual with a disability in the United States, as defined in section 7(20) [29 USCS § 705(20)], shall, solely by reason of her or his disability, be excluded from the participation in, be denied the benefits of, or be subjected to discrimination under any program or activity receiving Federal financial assistance.
- (3) Age Discrimination Act of 1975, Public Law 94-135, 42 U.S.C. 6101 et seq., and the Department implementing regulations at 31 CFR part 23. no person in the United States shall, on the basis of age, be excluded from participation in, be denied the benefits of, or be subjected to discrimination under, any program or activity receiving Federal financial assistance.
- (4) Pennsylvania Human Relations Act of October 27, 1957, P.L. 744, (43 P.S. 951-963) which provides that no employee, applicant for employment, independent contractor, or any other person shall be discriminated against because of race, color, religious creed, ancestry, national origin, age, or sex.

The Grantee will be required to provide a narrative describing its compliance with Title VI.

Hatch Act

The Grantee will comply with the provisions of the Hatch Act, P.L. 85-554 (5 U.S.C 1501 et seq.) which limits the political activity of employees.

PA Prevailing Wage Act

The Grantee will comply with the PA Prevailing Wage Act of 1961, as amended (43 P.S. 165-1 through 165-17) in those instances in which the federal Davis-Bacon Act (40 U.S.C. 3141-3144, and 3146-3148) either is not applicable or an exception would apply to projects undertaken by the Grantee.

Conflict of Interest

The Grantee will establish safeguards to prohibit employees from using positions for a purpose that is or gives the appearance of being motivated by a desire for private gain for themselves or others, particularly those with whom they have family, business, or other ties. (2 CFR 200.112 Conflict of Interest)

Lobbying

No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal grant, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form-LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions.

The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, sub-grants and contracts under grants, loans and cooperative agreement) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, Title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure. (2 CFR 200.450 Lobbying)

Reporting Requirements:

The Grantor has made every effort to provide a concise description of all necessary federal reporting requirements for this Contract. However, it is incumbent upon the Grantee to read and understand the Compliance and Reporting Guidance found at <https://home.treasury.gov/system/files/136/SLFRF-Compliance-and-Reporting-Guidance.pdf> and any updates to this guidance, as this guidance may change during the term of the Contract. The Grantor will make every effort to alert the Grantee to such changes as they occur.

The Grantee shall submit to the Grantor quarterly Project and Expenditure reports, on a form provided by the Grantor, through the termination date of the Contract or until all grant activities are completed and all grant funding expended. The quarterly Project and Expenditure Reports shall include the following information:

Grantee information:

- DUNS/UEI/TIN number and location
- Grantee name
- Contract number
- Grantee contact information (contact person name, telephone number, email address)
- Award Amount
- Is grantee registered in SAM.gov?

Project information:

- Project name
- Project Identification Number (Contract number)
- Project Status (Not started, Completed 50% or less, Completed 50% or more, Completed)
- Project expenditure category (see listing on Appendix D) as assigned by the Grantor
- Primary place of performance
- Period of performance start and end date
- Project Description (must describe the project in sufficient detail to provide understanding of the major activities that will occur, and will be required to be between 50 and 250 words.)

Expenditure information:

- Current period obligation
- Cumulative obligation
- Current period expenditure
- Cumulative expenditure

“Obligation” means an order placed for property and services, contracts and subawards made, and similar transactions that require payment.

In addition to the above reporting requirements, the Grantee may be required to provide additional information, if not already provided above, for contracts (subawards) it makes that are greater than \$50,000.00:

- Subrecipient identifying and demographic information (e.g., Name/DUNS/UEI/TIN number and location)
- Subaward, project, or contract number (created by Grantee)
- Award date, type, amount, and description

- Project Demographic Distribution (applies to expenditure categories EC 1.1 through 2.37)
- Required Programmatic Data (broken out by non-infrastructure projects and infrastructure projects)

For detailed information regarding information collected for Project Demographic Distribution and for Required Programmatic Data see Appendix D, which contains an excerpt from Department of Treasury's Compliance and Reporting Guidance for State and Local Fiscal Recovery Funds dated February 28, 2022.

Aggregate reporting is required for contracts, grants, transfers made to other government entities, loans, direct payments, and payments to individuals that are below \$50,000. This information will be accounted for by expenditure category at the project level.

Grantee will email required reporting to the following email addresses: ra-obsifrf_data@pa.gov and RA-DCEDcontracting@pa.gov.

REPORTING TIMETABLE

REPORT	YEAR	PERIOD COVERED	DUE DATE
1	2021	March 3 - December 31	January 15, 2022
2	2022	January 1 - March 31	April 15, 2022
3	2022	April 1 - June 30	July 15, 2022
4	2022	July 1 - September 30	October 15, 2022
5	2022	October 1 - December 31	January 15, 2023
6	2023	January 1 - March 31	April 15, 2023
7	2023	April 1 - June 30	July 15, 2023
8	2023	July 1 - September 30	October 15, 2023
9	2023	October 1 - December 31	January 15, 2024
10	2024	January 1 - March 31	April 15, 2024
11	2024	April 1 - June 30	July 15, 2024
12	2024	July 1 - September 30	October 15, 2024
13	2024	October 1 - December 31	January 15, 2025
14	2025	January 1 - March 31	April 15, 2025
15	2025	April 1 - June 30	July 15, 2025
16	2025	July 1 - September 30	October 15, 2025
17	2025	October 1 - December 31	January 15, 2026
18	2026	January 1 - March 31	April 15, 2026
19	2026	April 1 - June 30	July 15, 2026
20	2026	July 1 - September 30	October 15, 2026
21	2026	October 1 - December 31	March 15, 2027



APPENDIX D

EXCERPT FROM DEPARTMENT OF TREASURY'S COMPLIANCE AND REPORTING GUIDANCE
FOR STATE AND LOCAL FISCAL RECOVERY FUNDS DATED FEBRUARY 28, 2022f. Project Demographic Distribution (applicable to Public Health and Negative Economic Impact ECs: EC 1.1-2.37)– Collection to begin April 2022

Recognizing the disproportionate public health and negative economic impacts of the pandemic on many households, communities, and other entities, recipients must report whether certain types of projects are targeted to impacted and disproportionately impacted communities. Recipients will be asked to respond to the following:

- What Impacted and/or Disproportionately Impacted population does this project primarily serve? Please select the population primarily served.
- If this project primarily serves more than one Impacted and/or Disproportionately Impacted population, please select up to two additional populations served.

Recipients will select from the following options:

	Impacted	Disproportionately Impacted
Public Health	<ul style="list-style-type: none"> General Public 	
Assistance to Households	<ul style="list-style-type: none"> Low- or-moderate income households or populations¹² Households that experienced unemployment Households that experienced increased food or housing insecurity Households that qualify for certain federal programs¹³ For services to address lost instructional time in K-12 schools: any students that lost access to in-person instruction for a significant period of time Other households or populations that experienced a negative 	<ul style="list-style-type: none"> Low-income households and populations¹⁴ Households and populations residing in Qualified Census Tracts Households that qualify for certain federal programs¹⁵ Households receiving services provided by Tribal governments Households residing in the U.S. territories or receiving services from these governments

¹² Low or moderate-income households and communities are those with (i) income at or below 300 percent of the Federal Poverty Guidelines for the size of the household based on the most recently published poverty guidelines by the Department of Health and Human Services (HHS) or (ii) income at or below 65 percent of the Area Median Income for the county and size of household based on the most recently published data by the Department of Housing and Urban Development (HUD).

¹³ For Impacted households, these programs are Children's Health Insurance Program ("CHIP"); Childcare Subsidies through the Child Care and Development Fund ("CCDF") Program; Medicaid; National Housing Trust Fund ("HTF"), for affordable housing programs only; Home Investment Partnerships Program ("HOME"), for affordable housing programs only.

¹⁴ Low-income households and communities are those with (i) income at or below 185 percent of the Federal Poverty Guidelines for the size of the household based on the most recently published poverty guidelines by HHS or (ii) income at or below 40 percent of Area Median Income for its county and size of household based on the most recently published data by HUD.

¹⁵ For Disproportionately Impacted households, these programs are Temporary Assistance for Needy Families ("TANF"), Supplemental Nutrition Assistance Program ("SNAP"), Free- and Reduced-Price Lunch ("NSLP") and/or School Breakfast ("SBP") programs, Medicare Part D Low-Income Subsidies, Supplemental Security Income ("SSI"), Head Start, Special Supplemental Nutrition Program for Women, Infants, and Children ("WIC"), Section 8 Vouchers, Low-Income Home Energy Assistance Program ("LIHEAP"), and Pell Grants.



	Impacted	Disproportionately Impacted
	economic impact of the pandemic other than those listed above (please specify)	<ul style="list-style-type: none"> For services to address educational disparities, Title I eligible schools¹⁶ Other households or populations that experienced a disproportionate negative economic impact of the pandemic other than those listed above (please specify)
Assistance to Small Businesses	<ul style="list-style-type: none"> Small businesses that experienced a negative economic impact of the pandemic Classes of small businesses designated as negatively economically impacted by the pandemic (please specify) 	<ul style="list-style-type: none"> Small businesses operating in Qualified Census Tracts Small businesses operated by Tribal governments or on Tribal lands Small businesses operating in the U.S. territories Other small businesses disproportionately impacted by the pandemic (please specify)
Assistance to Non-Profits	<ul style="list-style-type: none"> Non-Profits that experienced a negative economic impact of the pandemic (please specify) Classes of non-profits designated as negatively economically impacted by the pandemic (please specify) 	<ul style="list-style-type: none"> Non-profits operating in Qualified Census Tracts Non-profits operated by Tribal governments or on Tribal lands Non-profits operating in the U.S. territories Other non-profits disproportionately impacted by the pandemic (please specify)
Aid to Impacted Industries	<ul style="list-style-type: none"> Travel, tourism, or hospitality sectors (including Tribal development districts) Industry outside the travel, tourism, or hospitality sectors that experienced a negative economic impact of the pandemic (please specify) 	N/A

¹⁶ For educational services and other efforts to address educational disparities, Treasury will recognize Title I eligible schools as disproportionately impacted and responsive services that support the school generally or support the whole school service as eligible. "Title I eligible schools" means schools eligible to receive services under section 1113 of Title I, Part A of the Elementary and Secondary Education Act of 1965, as amended (20 U.S.C. 6313), including schools served under section 1113(b)(1)(C) of that Act.



- j. **Required Programmatic Data (other than infrastructure projects):** For all projects listed under the following Expenditure Categories (see Appendix 1), the information listed must be provided in each report.

1. **Public Health and Negative Economic Impact (EC 1.1-3.5) - Collection to begin in April 2022**

- Brief description of structure and objectives of assistance program(s), including public health or negative economic impact experienced
- Brief description of how a recipient's response is related and reasonably and proportional to a public health or negative economic impact of COVID-19.¹⁸

Note: The final rule presumes that all enumerated eligible uses for programs and services, including COVID-19 mitigation and prevention programs and services, are reasonably proportional responses to the harm identified unless a response is grossly disproportionate to the type or extent of harm experienced. Many of the Eligibility Categories encompass multiple specific enumerated eligible uses and may be provided to a variety of populations. For example, EC 2.13 *Healthy Childhood Environments: Services to Foster Youth or Families Involved in Child Welfare System* includes a wide array of financial, educational, child development, or health supports, or other supports necessary, including supports for kinship care and may be provided to foster youth and/or families involved in the child welfare system. Between these two fields above, recipients should provide enough information to identify the type of enumerated eligible use being provided within the EC (e.g., kinship care support services), the public health or economic impact experienced, who the program and/or service is being provided to, and what services are being provided (e.g., respite resources). For enumerated eligible uses, recipients are not required to provide substantive documentation that the response is related and reasonably proportional in the Project and Expenditure Report.

2. **Capital Expenditures (EC 1.1-3.5) - Collection began in January 2022, with additional optional fields to begin in April 2022; optional fields will become required in July 2022**

- Does this project include a capital expenditure? (*Collection began in January 2022*)
- Total expected capital expenditure, including pre-development costs, if applicable (*Collection began in January 2022*)
- Type of capital expenditure, based on the following enumerated uses (This field is *optional in April 2022; required in July 2022*):
 - COVID-19 testing sites and laboratories, and acquisition of related equipment
 - COVID-19 vaccination sites
 - Medical facilities generally dedicated to COVID-19 treatment and mitigation (e.g., emergency rooms, intensive care units, telemedicine capabilities for COVID-19 related treatment)
 - Temporary medical facilities and other measures to increase COVID-19 treatment capacity, including related construction costs
 - Acquisition of equipment for COVID-19 prevention and treatment, including ventilators, ambulances, and other medical or emergency services equipment
 - Emergency operations centers and acquisition of emergency response equipment (e.g., emergency response radio systems)
 - Installation and improvement of ventilation systems in congregate settings, health facilities, or other public facilities
 - Public health data systems, including technology infrastructure
 - Adaptations to congregate living facilities, including skilled nursing facilities, other long-term care facilities, incarceration settings, homeless shelters, residential foster

¹⁸ Please note that capital expenditures are not considered "programs and services" and are not presumed to be reasonably proportional responses to an identified harm except as provided in the final rule.



- care facilities, residential behavioral health treatment, and other group living facilities, as well as public facilities and schools (excluding construction of new facilities for the purpose of mitigating spread of COVID-19 in the facility)
- Mitigation measures in small businesses, nonprofits, and impacted industries (e.g., developing outdoor spaces)
 - Behavioral health facilities and equipment (e.g., inpatient or outpatient mental health or substance use treatment facilities, crisis centers, diversion centers)
 - Technology and equipment to allow law enforcement to efficiently and effectively respond to the rise in gun violence resulting from the pandemic
 - Affordable housing, supportive housing, or recovery housing development
 - Food banks and other facilities primarily dedicated to addressing food insecurity
 - Transitional shelters (e.g., temporary residences for people experiencing homelessness)
 - Devices and equipment that assist households in accessing the internet (e.g., tablets, computers, or routers)
 - Childcare, daycare, and early learning facilities
 - Job and workforce training centers
 - Improvements to existing facilities to remediate lead contaminants (e.g., removal of lead paint)
 - Medical equipment and facilities designed to address disparities in public health outcomes (includes primary care clinics, hospitals, or integrations of health services into other settings)
 - Parks, green spaces, recreational facilities, sidewalks, pedestrian safety features like crosswalks, streetlights, neighborhood cleanup, and other projects to revitalize public spaces
 - Rehabilitations, renovation, remediation, cleanup, or conversions of vacant or abandoned properties
 - Schools and other educational facilities or equipment to address educational disparities
 - Technology and tools to effectively develop, execute, and evaluate government programs
 - Technology infrastructure to adapt government operations to the pandemic (e.g., video-conferencing software, improvements to case management systems or data sharing resources), reduce government backlogs, or meet increased maintenance needs
 - Other (please specify)
- For recipients (other than Tribal governments) investing in projects with total expected capital expenditures for an enumerated eligible use of \$10 million or more, as well as projects with total expected capital expenditures for an “other” use of \$1 million or more, please provide a written justification (This field is *optional in April 2022; required in July 2022*)
 - For projects with total expected capital expenditures of over \$10 million, provide labor reporting as outlined for infrastructure projects on pages 26 and 27 (This field is *optional in April 2022; required in July 2022*)
3. Use of Evidence (for relevant ECs noted in Appendix 1)—*Collection to begin April 2022*
- The dollar amount of the total project spending that is allocated towards evidence-based interventions
 - Indicate if a program evaluation of the project is being conducted



4. Household Assistance (EC 2.1-2.8) – *Collection began January 2022:*
 - Number of households served (by program if recipient establishes multiple separate household assistance programs)
5. Small Business Economic Assistance (EC 1.8, 2.29-2.33) – *Collection to begin April 2022*
 - Number of small businesses served (by program if recipient establishes multiple separate small businesses assistance programs)
6. Assistance to Non-Profits (EC 1.9, 2.34)– *Collection to begin April 2022*
 - Number of Non-Profits served (by program if recipient establishes multiple separate non-profit assistance programs)
7. Aid to Travel, Tourism, and Hospitality or Other Impacted Industries (EC 1.10, 2.35-2.36) – *Collection to begin April 2022:*
 - If aid is provided to industries other than travel, tourism, and hospitality (EC 2.36), describe if the industry experienced at least 8 percent employment loss from pre-pandemic levels, or the industry is experiencing comparable or worse economic impacts as the national tourism, travel, and hospitality industries as of the date of the final rule, and rationale for providing aide to the industry
 - For each subaward:
 - Sector of employer (Note: additional detail, including list of sectors, to be provided in the user guide posted to www.treasury.gov/SLFRP)
 - Purpose of funds (e.g., payroll support, safety measure implementation)
8. Education Assistance (EC 2.14, 2.24-.2.27) – *Collection began in January 2022:*
 - The National Center for Education Statistics (“NCES”) School ID or NCES District ID. List the School District if all schools within the school district received some funds. If not all schools within the school district received funds, list the School ID of the schools that received funds. These can allow evaluators to link data from the NCES to look at school-level demographics and, eventually, student performance.¹⁹
9. Payroll for Public Health and Safety Employees (EC 3.1) – *Collection began in January 2022:*
 - Number of government FTEs responding to COVID-19 supported under this authority
10. Rehiring Public Sector Staff (EC 3.2) – *Collection began in January 2022:*
 - Number of FTEs rehired by governments under this authority
11. Premium Pay (both Public Sector EC 4.1 and Private Sector EC 4.2) – *Collection began in January 2022; with additional optional field to begin April 2022*
 - List of sectors designated as critical to protecting the health and well-being of residents by the chief executive of the jurisdiction, if beyond those included in the final rule (*Collection began January 2022*)
 - Number of workers to be served (*Collection began January 2022*)
 - Employer sector for all subawards to third-party employers (i.e., employers other than the State, local, or Tribal government) (*Collection began January 2022*)
 - For groups of workers (e.g., an operating unit, a classification of worker, etc.) or, to the extent applicable, individual workers, other than those where the eligible worker receiving premium pay is earning (with the premium pay included) below 150 percent of their residing state or county’s average annual wage for all occupations, as defined by the Bureau of Labor Statistics Occupational Employment and Wage Statistics, whichever is

¹⁹ For more information on NCES identification numbers see <https://nces.ed.gov/ccd/districtsearch/> (districts) and <https://nces.ed.gov/ccd/schoolsearch/> (schools).



higher, on an annual basis; OR the eligible worker receiving premium pay is not exempt from the Fair Labor Standards Act overtime provisions:

- A brief written narrative justification of how the premium pay or grant is responsive to workers performing essential work during the public health emergency. This could include a description of the essential workers' duties, health or financial risks faced due to COVID-19, and why the recipient government determined that the premium pay was responsive to workers performing essential work during the pandemic. This description should not include personally identifiable information; when addressing individual workers, recipients should be careful not to include this information. Recipients may consider describing the workers' occupations and duties in a general manner as necessary to protect privacy (*Collection began January 2022*)
- Number of workers to be served with premium pay in K-12 schools (*Collection will begin April 2022*)

12. Revenue replacement (EC 6.1) – *Collection began in August 2021:*

As outlined in the final rule, recipients have the option to make a one-time decision to calculate revenue loss according to the formula outlined in the final rule or elect a "Standard Allowance" of up to \$10 million, not to exceed the award allocation, to spend on government services throughout the period of performance. The option to make this one-time decision will be provided during the April 30, 2022 reporting deadline.

For recipients electing the "Standard Allowance," Treasury will presume that up to \$10 million, not to exceed the award allocation, in revenue has been lost due to the public health emergency and recipients are permitted to use that amount to fund "government services." Please note that electing the standard allowance does not change a recipient's total allocation. Recipients must elect to use this standard allowance instead of calculating lost revenue using the formula.

For recipients calculating revenue loss according to the formula, the final rule permits recipients to choose whether to use calendar or fiscal year calculation dates. Recipients must use the same calculation time frame (calendar or fiscal year) throughout the award period.

Recipients calculating lost revenue using the formula should report the following:

- Choice of fiscal or calendar year revenue loss (choice must remain consistent throughout award period)
- General revenue collected over the past 12 months as of the most recent calculation date, as outlined in the final rule.
- Calculated revenue loss due to the Covid-19 public health emergency; and
- An explanation of how the revenue replacement funds were allocated to government services (note: additional instructions and/or template to be provided in user guide).

For information on treatment of future tax changes, please see the [Statement Regarding Compliance with the Coronavirus State and Local Fiscal Recovery Funds Interim Final Rule and Final Rule](#).

- k. Required Programmatic Data for Infrastructure Projects (EC 5): For all projects listed under the Water, Sewer, and Broadband Expenditure Categories (see Appendix 1), more detailed project-level information is required. Each project will be required to report expenditure data as described above, but will also report the following information:

1. All infrastructure projects (EC 5) – *Collection began in January 2022:*

- Projected/actual construction start date (month/year)



- Projected/actual initiation of operations date (month/year)
- Location (for broadband, geospatial data of locations to be served)
- For projects over \$10 million (based on expected total cost):
 - a. A recipient may provide a certification that, for the relevant project, all laborers and mechanics employed by contractors and subcontractors in the performance of such project are paid wages at rates not less than those prevailing, as determined by the U.S. Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the “Davis-Bacon Act”), for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State (or the District of Columbia) in which the work is to be performed, or by the appropriate State entity pursuant to a corollary State prevailing-wage-in-construction law (commonly known as “baby Davis-Bacon Acts”). If such certification is not provided, a recipient must provide a project employment and local impact report detailing:
 - The number of employees of contractors and sub-contractors working on the project;
 - The number of employees on the project hired directly and hired through a third party;
 - The wages and benefits of workers on the project by classification; and
 - Whether those wages are at rates less than those prevailing.²⁰Recipients must maintain sufficient records to substantiate this information upon request.
 - b. A recipient may provide a certification that a project includes a project labor agreement, meaning a pre-hire collective bargaining agreement consistent with section 8(f) of the National Labor Relations Act (29 U.S.C. 158(f)). If the recipient does not provide such certification, the recipient must provide a project workforce continuity plan, detailing:
 - How the recipient will ensure the project has ready access to a sufficient supply of appropriately skilled and unskilled labor to ensure high-quality construction throughout the life of the project, including a description of any required professional certifications and/or in-house training;
 - How the recipient will minimize risks of labor disputes and disruptions that would jeopardize timeliness and cost-effectiveness of the project;
 - How the recipient will provide a safe and healthy workplace that avoids delays and costs associated with workplace illnesses, injuries, and fatalities, including descriptions of safety training, certification, and/or licensure requirements for all relevant workers (e.g., OSHA 10, OSHA 30);
 - Whether workers on the project will receive wages and benefits that will secure an appropriately skilled workforce in the context of the local or regional labor market; and
 - Whether the project has completed a project labor agreement.
 - c. Whether the project prioritizes local hires.
 - d. Whether the project has a Community Benefit Agreement, with a description of any such agreement.

2. Water and sewer projects (EC 5.1-5.18) *Required once the project starts:*

- National Pollutant Discharge Elimination System (NPDES) Permit Number (if applicable; for projects aligned with the Clean Water State Revolving Fund) (*Collection began in January 2022*)
- Public Water System (PWS) ID number (if applicable; for projects aligned with the Drinking Water State Revolving Fund) (*Collection began January 2022*)

²⁰ As determined by the U.S. Secretary of Labor in accordance with subchapter IV of chapter 31 of title 40, United States Code (commonly known as the “Davis-Bacon Act”), for the corresponding classes of laborers and mechanics employed on projects of a character similar to the contract work in the civil subdivision of the State (or the District of Columbia) in which the work is to be performed.



- Median Household Income of service area (*Collection to begin in April 2022*)
- Lowest Quintile Income of the service area (*Collection to begin in April 2022*)

3. Broadband projects (EC 5.19-5.21) *Collection began in January 2022:*

- Confirm that the project is designed to, upon completion, reliably meet or exceed symmetrical 100 Mbps download and upload speeds.
 - If the project is not designed to reliably meet or exceed symmetrical 100 Mbps download and upload speeds, explain why not, and
 - Confirm that the project is designed to, upon completion, meet or exceed 100 Mbps download speed and between at least 20 Mbps and 100 Mbps upload speed, and be scalable to a minimum of 100 Mbps download speed and 100 Mbps upload speed.
- Please note: additional programmatic data will be required for broadband projects beginning in July 2022 and will be defined in a subsequent version of the Reporting Guidance.



Appendix 1: Expenditure Categories

Treasury's final rule provides greater flexibility and simplicity for recipients to fight the pandemic and support families and businesses struggling with its impacts, maintain vital services amid revenue shortfalls, and build a strong, resilient, and equitable recovery. As such, recipients will report on a broader set of eligible uses and associated Expenditure Categories ("EC"), starting with the April 2022 Project and Expenditure Report. The table below includes the new Expenditure Categories, as well as a reference to previous Expenditure Categories used for reporting under the interim final rule.

The Expenditure Categories (EC) listed below must be used to categorize each project as noted in Part 2 above. The term "Expenditure Category" refers to the detailed level (e.g., 1.1 COVID-19 Vaccination). When referred to as a category (e.g., EC 1) it includes all Expenditure Categories within that level.

*Denotes areas where recipients must identify the amount of the total funds that are allocated to evidence-based interventions (see Use of Evidence section above for details)

^Denotes areas where recipients must report on whether projects are primarily serving disproportionately impacted communities (see Project Demographic Distribution section above for details)

Expenditure Category	EC ²⁷	Previous EC ²⁸
1: Public Health		
COVID-19 Mitigation & Prevention		
COVID-19 Vaccination^	1.1	1.1
COVID-19 Testing^	1.2	1.2
COVID-19 Contact Tracing^	1.3	1.3
Prevention in Congregate Settings (Nursing Homes, Prisons/Jails, Dense Work Sites, Schools, Child care facilities, etc.)*^	1.4	1.4
Personal Protective Equipment^	1.5	1.5
Medical Expenses (including Alternative Care Facilities)^	1.6	1.6
Other COVID-19 Public Health Expenses (including Communications, Enforcement, Isolation/Quarantine)^	1.7	1.8
COVID-19 Assistance to Small Businesses^	1.8	-
COVID 19 Assistance to Non-Profits^	1.9	-
COVID-19 Aid to Impacted Industries^	1.10	-
Community Violence Interventions		
Community Violence Interventions*^	1.11	3.16
Behavioral Health		
Mental Health Services*^	1.12	1.10
Substance Use Services*^	1.13	1.11
Other		
Other Public Health Services^	1.14	1.12
Capital Investments or Physical Plant Changes to Public Facilities that respond to the COVID-19 public health emergency	-	1.7
2: Negative Economic Impacts		
Assistance to Households		
Household Assistance: Food Programs*^	2.1	2.1
Household Assistance: Rent, Mortgage, and Utility Aid*^	2.2	2.2
Household Assistance: Cash Transfers*^	2.3	2.3

²⁷ Under the final rule to be used starting with April 2022 reports

²⁸ Under the interim final rule to be used in Interim Report and January 2022 Project and Expenditure Report



Expenditure Category	EC ²⁷	Previous EC ²⁸
Household Assistance: Internet Access Programs*^	2.4	2.4
Household Assistance: Paid Sick and Medical Leave^	2.5	-
Household Assistance: Health Insurance*^	2.6	-
Household Assistance: Services for Un/Unbanked*^	2.7	-
Household Assistance: Survivor's Benefits^	2.8	-
Unemployment Benefits or Cash Assistance to Unemployed Workers*^	2.9	2.6
Assistance to Unemployed or Underemployed Workers (e.g. job training, subsidized employment, employment supports or incentives)*^	2.10	2.7
Healthy Childhood Environments: Child Care*^	2.11	3.6
Healthy Childhood Environments: Home Visiting*^	2.12	3.7
Healthy Childhood Environments: Services to Foster Youth or Families Involved in Child Welfare System*^	2.13	3.8
Healthy Childhood Environments: Early Learning*^	2.14	3.1
Long-term Housing Security: Affordable Housing*^	2.15	3.10
Long-term Housing Security: Services for Unhoused Persons*^	2.16	3.11
Housing Support: Housing Vouchers and Relocation Assistance for Disproportionately Impacted Communities*^	2.17	-
Housing Support: Other Housing Assistance*^	2.18	3.12
Social Determinants of Health: Community Health Workers or Benefits Navigators*^	2.19	3.14
Social Determinants of Health: Lead Remediation*^	2.20	3.15
Medical Facilities for Disproportionately Impacted Communities^	2.21	-
Strong Healthy Communities: Neighborhood Features that Promote Health and Safety^	2.22	-
Strong Healthy Communities: Demolition and Rehabilitation of Properties^	2.23	-
Addressing Educational Disparities: Aid to High-Poverty Districts^	2.24	3.2
Addressing Educational Disparities: Academic, Social, and Emotional Services*^	2.25	3.3
Addressing Educational Disparities: Mental Health Services*^	2.26	3.4
Addressing Impacts of Lost Instructional Time^	2.27	-
Contributions to UI Trust Funds^	2.28	2.8
Assistance to Small Businesses		
Loans or Grants to Mitigate Financial Hardship^	2.29	2.9
Technical Assistance, Counseling, or Business Planning*^	2.30	
Rehabilitation of Commercial Properties or Other Improvements^	2.31	-
Business Incubators and Start-Up or Expansion Assistance*^	2.32	
Enhanced Support to Microbusinesses*^	2.33	
Assistance to Non-Profits		
Assistance to Impacted Nonprofit Organizations (Impacted or Disproportionately Impacted)^	2.34	2.10
Aid to Impacted Industries		
Aid to Tourism, Travel, or Hospitality^	2.35	2.11
Aid to Other Impacted Industries^	2.36	2.12
Other		
Economic Impact Assistance: Other*^	2.37	2.13
Household Assistance: Eviction Prevention*^	-	2.5
Education Assistance: Other*^	-	3.5
Healthy Childhood Environments: Other*^	-	3.9
Social Determinants of Health: Other*^	-	3.13



Expenditure Category	EC ²⁷	Previous EC ²⁸
3: Public Health-Negative Economic Impact: Public Sector Capacity		
General Provisions		
Public Sector Workforce: Payroll and Benefits for Public Health, Public Safety, or Human Services Workers	3.1	1.9
Public Sector Workforce: Rehiring Public Sector Staff	3.2	2.14
Public Sector Workforce: Other	3.3	-
Public Sector Capacity: Effective Service Delivery	3.4	7.2
Public Sector Capacity: Administrative Needs	3.5	-
4: Premium Pay		
Public Sector Employees	4.1	4.1
Private Sector: Grants to Other Employers	4.2	4.2
5: Infrastructure		
Water and Sewer		
Clean Water: Centralized Wastewater Treatment	5.1	5.1
Clean Water: Centralized Wastewater Collection and Conveyance	5.2	5.2
Clean Water: Decentralized Wastewater	5.3	5.3
Clean Water: Combined Sewer Overflows	5.4	5.4
Clean Water: Other Sewer Infrastructure	5.5	5.5
Clean Water: Stormwater	5.6	5.6
Clean Water: Energy Conservation	5.7	5.7
Clean Water: Water Conservation	5.8	5.8
Clean Water: Nonpoint Source	5.9	5.9
Drinking water: Treatment	5.10	5.10
Drinking water: Transmission & Distribution	5.11	5.11
Drinking water: Lead Remediation, including in Schools and Daycares	5.12	5.12
Drinking water: Source	5.13	5.13
Drinking water: Storage	5.14	5.14
Drinking water: Other water infrastructure	5.15	5.15
Water and Sewer: Private Wells	5.16	-
Water and Sewer: IIJA Bureau of Reclamation Match	5.17	-
Water and Sewer: Other	5.18	-
Broadband		
Broadband: "Last Mile" projects	5.19	5.16
Broadband: IIJA Match	5.20	-
Broadband: Other projects	5.21	5.17
6: Revenue Replacement		
Provision of Government Services	6.1	6.1
Non-federal Match for Other Federal Programs	6.2	-
7: Administrative		
Administrative Expenses	7.1	7.1
Transfers to Other Units of Government	7.2	7.3
Transfers to Non-entitlement Units (States and territories only)	-	7.4



Appendix 2: Evidenced-Based Intervention Additional Information

What is evidence-based?

For the purposes of the SLFRF, with the exception of investments in educational services (see additional information below), evidence-based refers to interventions with strong or moderate evidence as defined below:

Strong evidence means that the evidence base can support causal conclusions for the specific program proposed by the applicant with the highest level of confidence. This consists of one or more well-designed and well-implemented experimental studies conducted on the proposed program with positive findings on one or more intended outcomes.

Moderate evidence means that there is a reasonably developed evidence base that can support causal conclusions. The evidence base consists of one or more quasi-experimental studies with positive findings on one or more intended outcomes OR two or more non-experimental studies with positive findings on one or more intended outcomes. Examples of research that meet the standards include: well-designed and well-implemented quasi-experimental studies that compare outcomes between the group receiving the intervention and a matched comparison group (i.e., a similar population that does not receive the intervention).

Preliminary evidence means that the evidence base can support conclusions about the program's contribution to observed outcomes. The evidence base consists of at least one non-experimental study. A study that demonstrates improvement in program beneficiaries over time on one or more intended outcomes OR an implementation (process evaluation) study used to learn and improve program operations would constitute preliminary evidence. Examples of research that meet the standards include: (1) outcome studies that track program beneficiaries through a service pipeline and measure beneficiaries' responses at the end of the program; and (2) pre- and post-test research that determines whether beneficiaries have improved on an intended outcome.

For investments in educational services, "evidence-based", consistent with the American Rescue Plan Act, has the meaning in section 8101(21) of the Elementary and Secondary Education Act of 1965, as amended (20 U.S.C. 6301 *et seq.*). Please see page 16 of this [Frequently Asked Questions resource](#) on the Department of Education's Elementary and Secondary School Emergency Relief Programs and Governor's Emergency Education Relief Programs for more information.

Contract: C000083534 - Signature Log
The effective date of this agreement is 11/09/2022 ("Effective Date")

	<u>Date</u>	<u>Name</u>	<u>Title</u>
Grantee	10/26/2022	John Hoffman	Chief
Grantee	10/26/2022	Mike McGuigan	President
Chief Counsel	10/28/2022	Souder, Sarah	CWOPA Employee
Executive	10/28/2022	Trucco, Gabrielle	CWOPA Employee
OGC		4-FA-26.0	
OAG		4-FA-26.0	
Comptroller	11/09/2022	John Orndorff	Comptroller

A New Fire Station for
Harmonville Fire Company – Plymouth Valley Station

CONTRACTOR'S INSURANCE

1.1 GENERAL

- A. The Contractor shall purchase and maintain for the entire life of the project, including time extension, until final acceptance by the Owner such insurance as will protect him from claims under worker's compensation laws, disability benefit laws or other similar employee benefit laws; from claims for damages because of bodily injury, occupational sickness or disease, or death of his employees and from claims for injury to or destruction of tangible property and claims insured by usual comprehensive general liability coverage, including the Broad Form General Liability endorsement. This includes loss of use resulting therefrom, any or all of which may arise out of Contractor's operations under the Contract Documents, whether such operations be by him or by any Subcontract or anyone directly or indirectly employed by any of them or for whose acts any of them may be legally liable. This insurance shall be written for not less than any limits of liability specified and incorporated as part of the Contract Document or as required by law, whichever is greater; and shall include the types of insurance listed in the Insurance Requirements.
- B. Each policy of insurance shall provide, by special endorsement or otherwise, the following:
 - 1. Subrogation Clause
 - a. The policy's coverage shall not be invalidated nor shall the coverage of this policy be reduced should any insured waive or should any insured already have waived in writing prior to a loss any or all right of recovery or defense against any person, corporation or other entity, including any other insured under this policy, for any loss covered by this policy.
 - 2. Notice
 - a. The policy's coverage may not be cancelled or modified except upon written notice having been received by the Owner and the Architect by certified mail, return receipt requested, at least 30 days prior to any such modification or cancellation.

2.1 TYPES OF INSURANCE

- A. General Liability including:
 - 1. Comprehensive Form
 - 2. Premises/Operations
 - 3. Underground Explosion and Collapse Hazard
 - 4. Products/Completed Operations
 - 5. Contractual
 - 6. Independent Contractors
 - 7. Broad Form Property Damage
 - 8. Personal Injury

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B. Automobile Liability including:

1. Any Auto
2. Hired Autos
3. Non-owned Autos

3.1 EXCESS LIABILITY

A. Umbrella Form

4.1 WORKER'S COMPENSATION AND EMPLOYERS' LIABILITY

5.1 BUILDER'S RISK –**TO BE PURCHASED BY OWNER**

- A. The Contractor shall purchase and maintain "All Risks" coverage, including flood and earthquake damage, fire, physical loss, theft, vandalism, malice mischief, collapse, water damage and other such perils in an extended coverage. The limits of liability for this insurance shall never be less than the Contract amount, including changes orders thereto. This coverage shall commence ten days after the issuance of the notice of award and shall be maintained by the Contractor for the full duration of the Contract until the Owner has made final payment or notified the Contractor that all or portions of the project have been insured by the Owner. At no time, until final payment, shall the Contractor allow the sum of the Owner supplied insurance be less than the actual Contract amount. This coverage should also include automatic permission to occupy and shall cover the insurable interest of the Owner, Architect, Engineer, Contractor and subcontractor in the Work.
- B. The Owner and Contractor waive all rights against each other for damage caused by fire or other perils to the extent payment is actually made under insurance provided under this Paragraph, except such rights as they may have under the Contract. The Contractor shall require similar waivers by Subcontractors in accordance with General Conditions.

6.1 REQUIREMENTS FOR CERTIFICATES

- A. With the Execution of the Contract Documents, the Contractor shall provide the Contract Administrator (an employee of the Engineer so designated in writing) with certificates of such insurance, acceptable to the Owner and Engineer. These certificates shall contain a provision that the coverage afforded under the policies will not be canceled or materially changed until at least 30 days prior written notice has been given to the Owner and Engineer. The Contract shall be required to replace any expired or canceled policies in like amount and coverage to the satisfaction of the Owner and Architect.
- B. If the Contractor fails to take out and maintain for the life of the Project the insurance required hereby or to replace any such expired or cancelled policy, the Owner may take out and maintain such insurance with such company as it deems satisfactory as approved by the Architect. Any amounts expended by the Owner in payment of premiums for such insurance shall be deducted by the Owner from the amount due to Contractor for the Work covered by this Contract.

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7.1 DECLARATION OF COVERAGE AND LIMITS OF LIABILITY

<u>COVERAGE</u>	<u>MINIMUM AMOUNTS</u>
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General Liability

Comprehensive General Liability, including: Premises and Operations	\$1,000,000 per occurrence, combined single limit
Underground, Explosive and Collapse Products and Completed Operations	\$500,000 property damage
Contractual Liability	
Personal Injury Liability	
Broad Form Property Damage	
Independent Contractors	

Automobile Liability

Comprehensive Automobile Liability (Covering owned, non-owned and hired autos), including contractual liability	\$1,000,000 per occurrence, combined single unit \$500,000 property damage
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Worker's Compensation and Employer's Liability

Worker's Compensation Insurance	Statutory
Employer's Liability	\$500,000 each accident
Umbrella Excess Liability	\$3,000,000

Additional Insured

- a. Plymouth Township
- b. Appointed Township Engineer
- c. Architect and its Consultants
- d. Commonwealth of Pennsylvania

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SECTION 211313 - WET-PIPE SPRINKLER SYSTEMS

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

- A. Section Includes:
 - 1. Pipes, fittings, and specialties.
 - 2. Fire-protection valves.
 - 3. Fire-department connections.
 - 4. Sprinklers.
 - 5. Excess-pressure pumps.
 - 6. Alarm devices.
 - 7. Manual control stations.
 - 8. Control panels.
 - 9. Pressure gages.

1.3 DEFINITIONS

- A. High-Pressure Sprinkler Piping: Wet-pipe sprinkler system piping designed to operate at working pressure higher than standard 175 psig, but not higher than 250 psig.
- B. Standard-Pressure Sprinkler Piping: Wet-pipe sprinkler system piping designed to operate at working pressure of 175 psig maximum.

1.4 SYSTEM DESCRIPTIONS

- A. Wet-Pipe Sprinkler System: Automatic sprinklers are attached to piping containing water and that is connected to water supply through alarm valve. Water discharges immediately from sprinklers when they are opened. Sprinklers open when heat melts fusible link or destroys frangible device. Hose connections are included if indicated.
- B. Deluge Sprinkler System: Open sprinklers are attached to piping connected to water supply through deluge valve. Fire-detection system, in same area as sprinklers, opens valve. Water flows into piping system and discharges from attached sprinklers when valve opens.

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1.5 PERFORMANCE REQUIREMENTS

- A. Standard-Pressure Piping System Component: Listed for 175-psig minimum working pressure.
- B. High-Pressure Piping System Component: Listed for 250-psig minimum working pressure.
- C. Delegated Design: Design sprinkler system(s), including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- D. Sprinkler system design shall be approved by authorities having jurisdiction.
 - 1. Margin of Safety for Available Water Flow and Pressure: 10 psi, including losses through water-service piping, valves, and backflow preventers.
 - 2. Sprinkler Occupancy Hazard Classifications:
 - a. Building Service Areas: Ordinary Hazard, Group 1.
 - b. Electrical Equipment Rooms: Ordinary Hazard, Group 1.
 - c. General Storage Areas: Ordinary Hazard, Group 1.
 - d. Mechanical Equipment Rooms: Ordinary Hazard, Group 1.
 - e. Office, Classrooms and Public Areas: Light Hazard.
 - 3. Minimum Density for Automatic-Sprinkler Piping Design:
 - a. Light-Hazard Occupancy: 0.10 gpm over 1500-sq. ft. area.
 - b. Ordinary-Hazard, Group 1 Occupancy: 0.15 gpm over 1500-sq. ft. area.
 - c. Ordinary-Hazard, Group 2 Occupancy: 0.20 gpm over 1500-sq. ft. area.
 - d. Special Occupancy Hazard: As determined by authorities having jurisdiction.
 - 4. Maximum Protection Area per Sprinkler: Per UL listing.
 - 5. Maximum Protection Area per Sprinkler:
 - a. Office Spaces: 225 sq. ft..
 - b. Storage Areas: 130 sq. ft..
 - c. Mechanical Equipment Rooms: 130 sq. ft..
 - d. Electrical Equipment Rooms: 130 sq. ft..
 - e. Classrooms: 225 sq. ft.
 - f. Other Areas: According to NFPA 13 recommendations unless otherwise indicated.
 - 6. Total Combined Hose-Stream Demand Requirement: According to NFPA 13 unless otherwise indicated:
 - a. Light-Hazard Occupancies: 100 gpm for 30 minutes.
 - b. Ordinary-Hazard Occupancies: 250 gpm for 60 to 90 minutes.
- E. Seismic Performance: Sprinkler piping shall withstand the effects of earthquake motions determined according to NFPA 13 and ASCE/SEI 7.

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1.6 SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories.
- B. Shop Drawings: For wet-pipe sprinkler systems. Include plans, elevations, sections, details, and attachments to other work.
 - 1. Wiring Diagrams: For power, signal, and control wiring.
- C. Delegated-Design Submittal: For sprinkler systems indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
- D. Coordination Drawings: Sprinkler systems, drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
 - 1. Domestic water piping.
 - 2. HVAC hydronic piping.
 - 3. Items penetrating finished ceiling include the following:
 - a. Lighting fixtures.
 - b. Air outlets and inlets.
 - c. Smoke Detectors
 - d. Speakers
 - e. Skylights.
- E. Qualification Data: For qualified Installer and professional engineer.
- F. Approved Sprinkler Piping Drawings: Working plans, prepared according to NFPA 13, that have been approved by authorities having jurisdiction, including hydraulic calculations. Working plans shall not be submitted to engineer for approval until they are approved by the authority having jurisdiction and the owner's insurance carrier.
- G. Welding certificates.
- H. Fire-hydrant flow test report.
- I. Field Test Reports and Certificates: Indicate and interpret test results for compliance with performance requirements and as described in NFPA 13. Include "Contractor's Material and Test Certificate for Aboveground Piping."
- J. Field quality-control reports.
- K. Operation and Maintenance Data: For sprinkler specialties to include in emergency, operation, and maintenance manuals.

1.7 QUALITY ASSURANCE

- A. Installer Qualifications:

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1. Installer's responsibilities include designing, fabricating, and installing sprinkler systems and providing professional engineering services needed to assume engineering responsibility. Base calculations on results of new fire-hydrant flow test.
 - a. Engineering Responsibility: Preparation of working plans, calculations, and field test reports by a qualified professional engineer.
- B. Welding Qualifications: Qualify procedures and operators according to ASME Boiler and Pressure Vessel Code.
- C. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- D. NFPA Standards: Sprinkler system equipment, specialties, accessories, installation, and testing shall comply with the following:
 1. NFPA 13, "Installation of Sprinkler Systems."
 2. NFPA 24, "Installation of Private Fire Service Mains and Their Appurtenances."

1.8 COORDINATION

- A. Coordinate layout and installation of sprinklers with other construction that penetrates ceilings, including light fixtures, HVAC equipment, and partition assemblies.

1.9 EXTRA MATERIALS

- A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
 1. Sprinkler Cabinets: Finished, wall-mounted, steel cabinet with hinged cover, and with space for minimum of six spare sprinklers plus sprinkler wrench. Include number of sprinklers required by NFPA 13 and sprinkler wrench. Include separate cabinet with sprinklers and wrench for each type of sprinkler used on Project.

PART 2 - PRODUCTS

2.1 PIPING MATERIALS

- A. Comply with requirements in "Piping Schedule" Article for applications of pipe, tube, and fitting materials, and for joining methods for specific services, service locations, and pipe sizes.

2.2 STEEL PIPE AND FITTINGS

- A. Standard Weight, Galvanized- and Black-Steel Pipe: ASTM A 53/A 53M, Type E,. Pipe ends may be factory or field formed to match joining method.

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- B. Thinwall Galvanized- and Black-Steel Pipe: ASTM A 135 or ASTM A 795/A 795M, threadable, with wall thickness less than Schedule 30 and equal to or greater than Schedule 10. Pipe ends may be factory or field formed to match joining method.
- C. Schedule 10, Black-Steel Pipe: ASTM A 135 or ASTM A 795/A 795M, Schedule 10 in NPS 5 and smaller; and NFPA 13-specified wall thickness in NPS 6 to NPS 10, plain end.
- D. Galvanized- and Black-Steel Pipe Nipples: ASTM A 733, made of ASTM A 53/A 53M, standard-weight, seamless steel pipe with threaded ends.
- E. Galvanized and Uncoated, Steel Couplings: ASTM A 865, threaded.
- F. Galvanized and Uncoated, Gray-Iron Threaded Fittings: ASME B16.4, Class 125, standard pattern.
- G. Malleable- or Ductile-Iron Unions: UL 860.
- H. Cast-Iron Flanges: ASME 16.1, Class 125.
- I. Steel Flanges and Flanged Fittings: ASME B16.5, Class 150.
- J. Steel Welding Fittings: ASTM A 234/A 234M and ASME B16.9.
- K. Grooved-Joint, Steel-Pipe Appurtenances:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Anvil International, Inc.
 - b. Corcoran Piping System Co.
 - c. National Fittings, Inc.
 - d. Shurjoint Piping Products.
 - e. Tyco Fire & Building Products LP.
 - f. Victaulic Company.
 - 2. Pressure Rating: 250 psig 300 psig minimum.
 - 3. Galvanized and Uncoated, Grooved-End Fittings for Steel Piping: ASTM A 47/A 47M, malleable-iron casting or ASTM A 536, ductile-iron casting; with dimensions matching steel pipe.
 - 4. Grooved-End-Pipe Couplings for Steel Piping: AWWA C606 and UL 213, rigid pattern, unless otherwise indicated, for steel-pipe dimensions. Include ferrous housing sections, EPDM-rubber gasket, and bolts and nuts.
- L. Steel Pressure-Seal Fittings: UL 213, FM-approved, 175-psig pressure rating with steel housing, rubber O-rings, and pipe stop; for use with fitting manufacturers' pressure-seal tools.
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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- a. Victaulic Company.

2.3 COPPER TUBE AND FITTINGS

- A. Hard Copper Tube: ASTM B 88, Type L water tube, drawn temper.
- B. Cast-Copper, Solder-Joint Fittings: ASME B16.18, pressure fittings.
- C. Wrought-Copper, Solder-Joint Fittings: ASME B16.22, pressure fittings.
- D. Bronze Flanges: ASME B16.24, Class 150, with solder-joint ends.
- E. Copper Unions: MSS SP-123, cast-copper-alloy, hexagonal-stock body, with ball-and-socket, metal-to-metal seating surfaces, and solder-joint or threaded ends.
- F. Copper Pressure-Seal Fittings:
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Viega; Plumbing & Heating Systems.
 - 2. Standard: UL 213.
 - 3. NPS 2 and Smaller: Wrought-copper fitting with EPDM-rubber O-ring seal in each end.
 - 4. NPS 2-1/2 to NPS 4: Cast-bronze fitting with EPDM-rubber O-ring seal in each end.
- G. Grooved-Joint, Copper-Tube Appurtenances:
 - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. Anvil International, Inc.
 - b. Shurjoint Piping Products.
 - c. Victaulic Company.
 - 2. Grooved-End, Copper Fittings: ASTM B 75, copper tube or ASTM B 584, bronze castings.
 - 3. Grooved-End-Tube Couplings: To fit copper-tube dimensions, with design similar to AWWA C606. Include ferrous housing sections, EPDM-rubber gasket suitable for hot and cold water, and bolts and nuts.
- H. Copper-Tube, Extruded-Tee Connections:
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. T-DRILL Industries Inc.

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2. Description: Tee formed in copper tube according to ASTM F 2014.

2.4 PIPING JOINING MATERIALS

- A. Pipe-Flange Gasket Materials: AWWA C110, rubber, flat face, 1/8 inch thick or ASME B16.21, nonmetallic and asbestos free.
 - 1. Class 250, Cast-Iron Flanges and Class 300, Steel Raised-Face Flanges: Ring-type gaskets.
- B. Metal, Pipe-Flange Bolts and Nuts: ASME B18.2.1, carbon steel unless otherwise indicated.
- C. Brazing Filler Metals: AWS A5.8/A5.8M, BCuP Series, copper-phosphorus alloys for general-duty brazing unless otherwise indicated.
- D. Welding Filler Metals: Comply with AWS D10.12M/D10.12 for welding materials appropriate for wall thickness and chemical analysis of steel pipe being welded.

2.5 LISTED FIRE-PROTECTION VALVES

- A. General Requirements:
 - 1. Valves shall be UL listed or FM approved.
 - 2. Minimum Pressure Rating for High-Pressure Piping: 250 psig.
- B. Ball Valves:
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. Anvil International, Inc.
 - b. Victaulic Company.
 - 3. Standard: UL 1091 except with ball instead of disc.
 - 4. Valves NPS 1-1/2 and Smaller: Bronze body with threaded ends.
 - 5. Valves NPS 2 and NPS 2-1/2: Bronze body with threaded ends or ductile-iron body with grooved ends.
 - 6. Valves NPS 3: Ductile-iron body with grooved ends.
- C. Bronze Butterfly Valves:
 - 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. Fivalco Inc.
 - b. Global Safety Products, Inc.
 - c. Milwaukee Valve Company.
3. Standard: UL 1091.
4. Pressure Rating: 175 psig.
5. Body Material: Bronze.
6. End Connections: Threaded.

D. Iron Butterfly Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. Anvil International, Inc.
 - b. Fivalco Inc.
 - c. Global Safety Products, Inc.
 - d. Kennedy Valve; a division of McWane, Inc.
 - e. Milwaukee Valve Company.
 - f. NIBCO INC.
 - g. Pratt, Henry Company.
 - h. Shurjoint Piping Products.
 - i. Tyco Fire & Building Products LP.
 - j. Victaulic Company.
3. Standard: UL 1091.
4. Pressure Rating: 175 psig.
5. Body Material: Cast or ductile iron.
6. Style: Lug or wafer.
7. End Connections: Grooved.

E. Check Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. AFAC Inc.
 - b. American Cast Iron Pipe Company; Waterous Company Subsidiary.

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- c. Anvil International, Inc.
 - d. Clow Valve Company; a division of McWane, Inc.
 - e. Crane Co.; Crane Valve Group; Crane Valves.
 - f. Crane Co.; Crane Valve Group; Jenkins Valves.
 - g. Crane Co.; Crane Valve Group; Stockham Division.
 - h. Fire-End & Croker Corporation.
 - i. Fire Protection Products, Inc.
 - j. Fivalco Inc.
 - k. Globe Fire Sprinkler Corporation.
 - l. Groeniger & Company.
 - m. Kennedy Valve; a division of McWane, Inc.
 - n. Matco-Norca.
 - o. Metraflex, Inc.
 - p. Milwaukee Valve Company.
 - q. Mueller Co.; Water Products Division.
 - r. NIBCO INC.
 - s. Potter Roemer.
 - t. Reliable Automatic Sprinkler Co., Inc.
 - u. Shurjoint Piping Products.
 - v. Tyco Fire & Building Products LP.
 - w. United Brass Works, Inc.
 - x. Venus Fire Protection Ltd.
 - y. Victaulic Company.
 - z. Viking Corporation.
 - aa. Watts Water Technologies, Inc.
- 3. Standard: UL 312.
 - 4. Pressure Rating: 250 psig minimum.
 - 5. Type: Swing check.
 - 6. Body Material: Cast iron.
 - 7. End Connections: Flanged or grooved.
- F. Bronze OS&Y Gate Valves:
- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - 2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. Crane Co.; Crane Valve Group; Crane Valves.
 - b. Crane Co.; Crane Valve Group; Stockham Division.
 - c. Milwaukee Valve Company.
 - d. NIBCO INC.
 - e. United Brass Works, Inc.
 - 3. Standard: UL 262.
 - 4. Pressure Rating: 175 psig.
 - 5. Body Material: Bronze.

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6. End Connections: Threaded.

G. Iron OS&Y Gate Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. American Cast Iron Pipe Company; Waterous Company Subsidiary.
 - b. American Valve, Inc.
 - c. Clow Valve Company; a division of McWane, Inc.
 - d. Crane Co.; Crane Valve Group; Crane Valves.
 - e. Crane Co.; Crane Valve Group; Jenkins Valves.
 - f. Crane Co.; Crane Valve Group; Stockham Division.
 - g. Hammond Valve.
 - h. Milwaukee Valve Company.
 - i. Mueller Co.; Water Products Division.
 - j. NIBCO INC.
 - k. Shurjoint Piping Products.
 - l. Tyco Fire & Building Products LP.
 - m. United Brass Works, Inc.
 - n. Watts Water Technologies, Inc.
3. Standard: UL 262.
4. Pressure Rating: 250 psig minimum.
5. Body Material: Cast or ductile iron.
6. End Connections: Flanged or grooved.

H. NRS Gate Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. American Cast Iron Pipe Company; Waterous Company Subsidiary.
 - b. American Valve, Inc.
 - c. Clow Valve Company; a division of McWane, Inc.
 - d. Crane Co.; Crane Valve Group; Stockham Division.
 - e. Kennedy Valve; a division of McWane, Inc.
 - f. Mueller Co.; Water Products Division.
 - g. NIBCO INC.
 - h. Tyco Fire & Building Products LP.
3. Standard: UL 262.
4. Pressure Rating: 250 psig minimum.

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5. Body Material: Cast iron with indicator post flange.
6. Stem: Nonrising.
7. End Connections: Flanged or grooved.

2.6 TRIM AND DRAIN VALVES

A. General Requirements:

1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
2. Pressure Rating: 175 psig minimum.

B. Angle Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fire Protection Products, Inc.
 - b. United Brass Works, Inc.

C. Ball Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Affiliated Distributors.
 - b. Anvil International, Inc.
 - c. Barnett.
 - d. Conbraco Industries, Inc.; Apollo Valves.
 - e. Fire-End & Croker Corporation.
 - f. Fire Protection Products, Inc.
 - g. Flowserve.
 - h. FNW.
 - i. Jomar International, Ltd.
 - j. Kennedy Valve; a division of McWane, Inc.
 - k. Kitz Corporation.
 - l. Legend Valve.
 - m. Metso Automation USA Inc.
 - n. Milwaukee Valve Company.
 - o. NIBCO INC.
 - p. Potter Roemer.
 - q. Red-White Valve Corporation.
 - r. Southern Manufacturing Group.
 - s. Stewart, M. A. and Sons Ltd.
 - t. Tyco Fire & Building Products LP.
 - u. Victaulic Company.
 - v. Watts Water Technologies, Inc.

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D. Globe Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fire Protection Products, Inc.
 - b. United Brass Works, Inc.

E. Plug Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Southern Manufacturing Group.

2.7 SPECIALTY VALVES

A. General Requirements:

1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
2. Pressure Rating:
 - a. Standard-Pressure Piping Specialty Valves: 175 psig minimum.
 - b. High-Pressure Piping Specialty Valves: 250 psig minimum.
3. Body Material: Cast or ductile iron.
4. Size: Same as connected piping.
5. End Connections: Flanged or grooved.

B. Alarm Valves:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. AFAC Inc.
 - b. Globe Fire Sprinkler Corporation.
 - c. Reliable Automatic Sprinkler Co., Inc.
 - d. Tyco Fire & Building Products LP.
 - e. Venus Fire Protection Ltd.
 - f. Victaulic Company.
 - g. Viking Corporation.
3. Standard: UL 193.

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4. Design: For horizontal or vertical installation.
5. Include trim sets for bypass, drain, electrical sprinkler alarm switch, pressure gages, retarding chamber, and fill-line attachment with strainer.
6. Drip Cup Assembly: Pipe drain without valves and separate from main drain piping.
7. Drip Cup Assembly: Pipe drain with check valve to main drain piping.

C. Automatic (Ball Drip) Drain Valves:

1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:
 - a. AFAC Inc.
 - b. Reliable Automatic Sprinkler Co., Inc.
 - c. Tyco Fire & Building Products LP.
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 3. Standard: UL 1726.
 4. Pressure Rating: 175 psig minimum.
 5. Type: Automatic draining, ball check.
 6. Size: NPS 3/4.
 7. End Connections: Threaded.

2.8 FIRE-DEPARTMENT CONNECTIONS

A. Flush-Type, Chrome, Fire-Department Connection:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
2. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on Drawings or comparable product by one of the following:
 - a. AFAC Inc.
 - b. Elkhart Brass Mfg. Company, Inc.
 - c. Fire-End & Croker Corporation.
 - d. Fire Protection Products, Inc.
 - e. GMR International Equipment Corporation.
 - f. Guardian Fire Equipment, Inc.
 - g. Tyco Fire & Building Products LP.
 - h. Wilson & Cousins Inc.
3. Standard: UL 405.
4. Type: Flush, for wall mounting.
5. Pressure Rating: 175 psig minimum.
6. Body Material: Corrosion-resistant metal.

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7. Inlets: Brass with threads according to NFPA 1963 and matching local fire-department sizes and threads. Include extension pipe nipples, brass lugged swivel connections, and check devices or clappers.
8. Caps: Brass, lugged type, with gasket and chain.
9. Escutcheon Plate: Round, brass, wall type.
10. Outlet: Back, with pipe threads.
11. Escutcheon Plate Marking: Similar to "AUTO SPKR."
12. Finish: Polished chrome plated.
13. Must match standard thread of the local fire department..

2.9 SPRINKLER SPECIALTY PIPE FITTINGS

A. Branch Outlet Fittings:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Anvil International, Inc.
 - b. National Fittings, Inc.
 - c. Shurjoint Piping Products.
 - d. Tyco Fire & Building Products LP.
 - e. Victaulic Company.
2. Standard: UL 213.
3. Pressure Rating: 300 psig minimum.
4. Body Material: Ductile-iron housing with EPDM seals and bolts and nuts.
5. Type: Mechanical-T and -cross fittings.
6. Configurations: Snap-on and strapless, ductile-iron housing with branch outlets.
7. Size: Of dimension to fit onto sprinkler main and with outlet connections as required to match connected branch piping.
8. Branch Outlets: Grooved, plain-end pipe, or threaded.

B. Flow Detection and Test Assemblies:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. AGF Manufacturing Inc.
 - b. Reliable Automatic Sprinkler Co., Inc.
 - c. Tyco Fire & Building Products LP.
 - d. Victaulic Company.
2. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
3. Pressure Rating: 300 psig.
4. Body Material: Cast- or ductile-iron housing with orifice, sight glass, and integral test valve.

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5. Size: Same as connected piping.
6. Inlet and Outlet: Threaded.

C. Branch Line Testers:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Elkhart Brass Mfg. Company, Inc.
 - b. Fire-End & Croker Corporation.
 - c. Potter Roemer.
2. Standard: UL 199.
3. Pressure Rating: 175 psig.
4. Body Material: Brass.
5. Size: Same as connected piping.
6. Inlet: Threaded.
7. Drain Outlet: Threaded and capped.
8. Branch Outlet: Threaded, for sprinkler.

D. Sprinkler Inspector's Test Fittings:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. AGF Manufacturing Inc.
 - b. Triple R Specialty.
 - c. Tyco Fire & Building Products LP.
 - d. Victaulic Company.
 - e. Viking Corporation.
2. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
3. Pressure Rating: 175 psig minimum.
4. Body Material: Cast- or ductile-iron housing with sight glass.
5. Size: Same as connected piping.
6. Inlet and Outlet: Threaded.

E. Adjustable Drop Nipples:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. CECA, LLC.
 - b. Corcoran Piping System Co.
 - c. Merit Manufacturing; a division of Anvil International, Inc.
2. Standard: UL 1474.

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3. Pressure Rating: 250 psig minimum.
4. Body Material: Steel pipe with EPDM-rubber O-ring seals.
5. Size: Same as connected piping.
6. Length: Adjustable.
7. Inlet and Outlet: Threaded.

2.10 SPRINKLERS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
1. AFAC Inc.
 2. Globe Fire Sprinkler Corporation.
 3. Reliable Automatic Sprinkler Co., Inc.
 4. Tyco Fire & Building Products LP.
 5. Venus Fire Protection Ltd.
 6. Victaulic Company.
 7. Viking Corporation.
- B. General Requirements:
1. Standard: UL's "Fire Protection Equipment Directory" listing or "Approval Guide," published by FM Global, listing.
 2. Pressure Rating for Residential Sprinklers: 175 psig maximum.
 3. Pressure Rating for Automatic Sprinklers: 175 psig minimum.
 4. Pressure Rating for High-Pressure Automatic Sprinklers: 250 psig minimum.
- C. Automatic Sprinklers with Heat-Responsive Element:
1. Early-Suppression, Fast-Response Applications: UL 1767.
 2. Nonresidential Applications: UL 199.
 3. Characteristics: Nominal 1/2-inch orifice with Discharge Coefficient K of 5.6, and for "Ordinary" temperature classification rating unless otherwise indicated or required by application.
- D. Sprinkler Finishes:
1. Chrome plated.
 2. Bronze.
 3. Painted.
 4. Pool; area and pool equipment room ; provide factory coated sprinkler heads to prevent corrosion.
- E. Sprinkler Guards:
1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Reliable Automatic Sprinkler Co., Inc.

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- b. Tyco Fire & Building Products LP.
 - c. Victaulic Company.
 - d. Viking Corporation.
- 2. Standard: UL 199.
 - 3. Type: Wire cage with fastening device for attaching to sprinkler.
 - 4. Sprinkler guards shall be provided for all exposed upright sprinkler heads.
 - 5. Sprinkler guards within Pool Equipment Room and Pool area shall be corrosion resistant.

2.11 ALARM DEVICES

A. Alarm-device types shall match piping and equipment connections.

B. Electrically Operated Alarm Bell:

- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fire-Lite Alarms, Inc.; a Honeywell company.
 - b. Notifier; a Honeywell company.
 - c. Potter Electric Signal Company.
- 2. Standard: UL 464.
- 3. Type: Vibrating, metal alarm bell.
- 4. Size: 8-inch minimum- diameter.
- 5. Finish: Red-enamel factory finish, suitable for outdoor use.

C. Water-Flow Indicators:

- 1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. ADT Security Services, Inc.
 - b. McDonnell & Miller; ITT Industries.
 - c. Potter Electric Signal Company.
 - d. System Sensor; a Honeywell company.
 - e. Viking Corporation.
 - f. Watts Industries (Canada) Inc.
- 2. Standard: UL 346.
- 3. Water-Flow Detector: Electrically supervised.
- 4. Components: Two single-pole, double-throw circuit switches for isolated alarm and auxiliary contacts, 7 A, 125-V ac and 0.25 A, 24-V dc; complete with factory-set, field-adjustable retard element to prevent false signals and tamperproof cover that sends signal if removed.
- 5. Type: Paddle operated.
- 6. Pressure Rating: 250 psig.
- 7. Design Installation: Horizontal or vertical.

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D. Pressure Switches:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. AFAC Inc.
 - b. Barksdale, Inc.
 - c. Detroit Switch, Inc.
 - d. Potter Electric Signal Company.
 - e. System Sensor; a Honeywell company.
 - f. Tyco Fire & Building Products LP.
 - g. United Electric Controls Co.
 - h. Viking Corporation.
2. Standard: UL 346.
3. Type: Electrically supervised water-flow switch with retard feature.
4. Components: Single-pole, double-throw switch with normally closed contacts.
5. Design Operation: Rising pressure signals water flow.

E. Valve Supervisory Switches:

1. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 - a. Fire-Lite Alarms, Inc.; a Honeywell company.
 - b. Kennedy Valve; a division of McWane, Inc.
 - c. Potter Electric Signal Company.
 - d. System Sensor; a Honeywell company.
2. Standard: UL 346.
3. Type: Electrically supervised.
4. Components: Single-pole, double-throw switch with normally closed contacts.
5. Design: Signals that controlled valve is in other than fully open position.

2.12 PRESSURE GAGES

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:
 1. AMETEK; U.S. Gauge Division.
 2. Ashcroft, Inc.
 3. Brecco Corporation.
 4. WIKA Instrument Corporation.
- B. Standard: UL 393.
- C. Dial Size: 3-1/2- to 4-1/2-inch diameter.

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- D. Pressure Gage Range: 0 to 300 psig.
- E. Water System Piping Gage: Include "WATER" or "AIR/WATER" label on dial face.
- F. Air System Piping Gage: Include retard feature and "AIR" or "AIR/WATER" label on dial face.

2.13 ESCUTCHEONS

- A. General: Manufactured ceiling, floor, and wall escutcheons and floor plates.
- B. One-Piece, Cast-Brass Escutcheons: Polished chrome-plated or rough-brass finish with set-screws.
- C. One-Piece, Deep-Pattern Escutcheons: Deep-drawn, box-shaped brass with chrome-plated finish.
- D. One-Piece, Stamped-Steel Escutcheons: Chrome-plated finish with set-screw or spring clips.
- E. Split-Casting, Cast-Brass Escutcheons: Polished chrome-plated or rough-brass finish with concealed hinge and set-screw.
- F. Split-Plate, Stamped-Steel Escutcheons: Chrome-plated finish with concealed hinge, set-screw or spring clips.
- G. One-Piece Floor Plates: Cast-iron flange.
- H. Split-Casting Floor Plates: Cast brass with concealed hinge.

2.14 SLEEVES

- A. Cast-Iron Wall Pipe Sleeves: Cast or fabricated of cast iron and equivalent to ductile-iron pressure pipe, with plain ends and integral waterstop unless otherwise indicated.
- B. Galvanized-Steel-Sheet Sleeves: 0.0239-inch minimum thickness; round tube closed with welded longitudinal joint.
- C. Galvanized-Steel-Pipe Sleeves: ASTM A 53/A 53M, Type E, standard weight, zinc coated, plain ends.
- D. Stack Sleeve Fittings: Manufactured, cast-iron sleeve with integral clamping flange. Include clamping ring and bolts and nuts for membrane flashing.
 - 1. Underdeck Clamp: Clamping ring with set-screws.

2.15 SLEEVE SEALS

- A. Manufacturers: Subject to compliance with requirements, available manufacturers offering products that may be incorporated into the Work include, but are not limited to, the following:

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1. Advance Products & Systems, Inc.
2. Calpico, Inc.
3. Metraflex, Inc.
4. Pipeline Seal and Insulator, Inc.

B. Description: Modular sealing element unit, designed for field assembly, to fill annular space between pipe and sleeve.

1. Sealing Elements: EPDM-rubber or NBR interlocking links shaped to fit surface of pipe. Include type and number required for pipe material and size of pipe.
2. Pressure Plates: Carbon steel Stainless steel.
3. Connecting Bolts and Nuts: Carbon steel with corrosion-resistant coating of length required to secure pressure plates to sealing elements.

2.16 GROUT

- A. Standard: ASTM C 1107, Grade B, posthardening and volume adjusting, dry, hydraulic-cement grout.
- B. Characteristics: Nonshrink, and recommended for interior and exterior applications.
- C. Design Mix: 5000-psi, 28-day compressive strength.
- D. Packaging: Premixed and factory packaged.

PART 3 - EXECUTION

3.1 PREPARATION

- A. Perform fire-hydrant flow test according to NFPA 13 and NFPA 291. Use results for system design calculations required in "Quality Assurance" Article.
- B. Report test results promptly and in writing.

3.2 SERVICE-ENTRANCE PIPING

- A. Install shutoff valve, backflow preventer, pressure gage, drain, and other accessories indicated at connection to water-service piping.
- B. Install shutoff valve, check valve, pressure gage, and drain at connection to water service.

3.3 PIPING INSTALLATION

- A. Locations and Arrangements: Drawing plans, schematics, and diagrams indicate general location and arrangement of piping. Install piping as indicated, as far as practical.

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1. Deviations from approved working plans for piping require written approval from authorities having jurisdiction. File written approval with Architect before deviating from approved working plans.
 - B. Piping Standard: Comply with requirements for installation of sprinkler piping in NFPA 13.
 - C. Install seismic restraints on piping. Comply with requirements for seismic-restraint device materials and installation in NFPA 13.
 - D. Use listed fittings to make changes in direction, branch takeoffs from mains, and reductions in pipe sizes.
 - E. Install unions adjacent to each valve in pipes NPS 2 and smaller.
 - F. Install flanges, flange adapters, or couplings for grooved-end piping on valves, apparatus, and equipment having NPS 2-1/2 and larger end connections.
 - G. Install "Inspector's Test Connections" in sprinkler system piping, complete with shutoff valve, and sized and located according to NFPA 13.
 - H. Install sprinkler piping with drains for complete system drainage.
 - I. Install sprinkler control valves, test assemblies, and drain risers adjacent to standpipes when sprinkler piping is connected to standpipes.
 - J. Install automatic (ball drip) drain valve at each check valve for fire-department connection, to drain piping between fire-department connection and check valve. Install drain piping to and spill over floor drain or to outside building.
 - K. Install alarm devices in piping systems.
 - L. Install hangers and supports for sprinkler system piping according to NFPA 13. Comply with requirements for hanger materials in NFPA 13.
 - M. Install pressure gages on riser or feed main, at each sprinkler test connection, and at top of each standpipe. Include pressure gages with connection not less than NPS 1/4 and with soft metal seated globe valve, arranged for draining pipe between gage and valve. Install gages to permit removal, and install where they will not be subject to freezing.
 - N. Fill sprinkler system piping with water.
 - O. Install electric heating cables and pipe insulation on sprinkler piping in areas subject to freezing. Including.
- 3.4 JOINT CONSTRUCTION
- A. Install couplings, flanges, flanged fittings, unions, nipples, and transition and special fittings that have finish and pressure ratings same as or higher than system's pressure rating for aboveground applications unless otherwise indicated.

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- B. Install unions adjacent to each valve in pipes NPS 2 and smaller.
- C. Install flanges, flange adapters, or couplings for grooved-end piping on valves, apparatus, and equipment having NPS 2-1/2 and larger end connections.
- D. Ream ends of pipes and tubes and remove burrs. Bevel plain ends of steel pipe.
- E. Remove scale, slag, dirt, and debris from inside and outside of pipes, tubes, and fittings before assembly.
- F. Flanged Joints: Select appropriate gasket material in size, type, and thickness suitable for water service. Join flanges with gasket and bolts according to ASME B31.9.
- G. Threaded Joints: Thread pipe with tapered pipe threads according to ASME B1.20.1. Cut threads full and clean using sharp dies. Ream threaded pipe ends to remove burrs and restore full ID. Join pipe fittings and valves as follows:
 - 1. Apply appropriate tape or thread compound to external pipe threads.
 - 2. Damaged Threads: Do not use pipe or pipe fittings with threads that are corroded or damaged.
- H. Twist-Locked Joints: Insert plain end of steel pipe into plain-end-pipe fitting. Rotate retainer lugs one-quarter turn or tighten retainer pin.
- I. Steel-Piping, Pressure-Sealed Joints: Join lightwall steel pipe and steel pressure-seal fittings with tools recommended by fitting manufacturer.
- J. Welded Joints: Construct joints according to AWS D10.12M/D10.12, using qualified processes and welding operators according to "Quality Assurance" Article.
 - 1. Shop weld pipe joints where welded piping is indicated. Do not use welded joints for galvanized-steel pipe.
- K. Steel-Piping, Cut-Grooved Joints: Cut square-edge groove in end of pipe according to AWWA C606. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings according to AWWA C606 for steel-pipe joints.
- L. Steel-Piping, Roll-Grooved Joints: Roll rounded-edge groove in end of pipe according to AWWA C606. Assemble coupling with housing, gasket, lubricant, and bolts. Join steel pipe and grooved-end fittings according to AWWA C606 for steel-pipe grooved joints.
- M. Steel-Piping, Pressure-Sealed Joints: Join Schedule 5 steel pipe and steel pressure-seal fittings with tools recommended by fitting manufacturer.
- N. Brazed Joints: Join copper tube and fittings according to CDA's "Copper Tube Handbook," "Brazed Joints" Chapter.
- O. Copper-Tubing Grooved Joints: Roll rounded-edge groove in end of tube according to AWWA C606. Assemble coupling with housing, gasket, lubricant, and bolts. Join copper tube and grooved-end fittings according to AWWA C606 for steel-pipe grooved joints.

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- P. Copper-Tubing, Pressure-Sealed Joints: Join copper tube and copper pressure-seal fittings with tools recommended by fitting manufacturer.
- Q. Extruded-Tee Connections: Form tee in copper tube according to ASTM F 2144. Use tool designed for copper tube; drill pilot hole, form collar for outlet, dimple tube to form seating stop, and braze branch tube into collar.
- R. Dissimilar-Material Piping Joints: Make joints using adapters compatible with materials of both piping systems.

3.5 VALVE AND SPECIALTIES INSTALLATION

- A. Install listed fire-protection valves, trim and drain valves, specialty valves and trim, controls, and specialties according to NFPA 13 and authorities having jurisdiction.
- B. Install listed fire-protection shutoff valves supervised open, located to control sources of water supply except from fire-department connections. Install permanent identification signs indicating portion of system controlled by each valve.
- C. Install check valve in each water-supply connection. Install backflow preventers instead of check valves in potable-water-supply sources.
- D. Specialty Valves:
 - 1. General Requirements: Install in vertical position for proper direction of flow, in main supply to system.
 - 2. Alarm Valves: Include bypass check valve and retarding chamber drain-line connection.
 - 3. Deluge Valves: Install in vertical position, in proper direction of flow, and in main supply to deluge system. Install trim sets for drain, priming level, alarm connections, ball drip valves, pressure gages, priming chamber attachment, and fill-line attachment.

3.6 SPRINKLER INSTALLATION

- A. Install sprinklers in suspended ceilings in center of narrow dimension of acoustical ceiling panels. Sprinkler shop drawings shall be submitted to architect for their location approval as part of the submittal review process. There may be minor sprinkler head location adjustment per architect request. These potential adjustment shall be included as part of the sprinkler contract and no change order add will be considered.
- B. Install dry-type sprinklers with water supply from heated space. Do not install pendent or sidewall, wet-type sprinklers in areas subject to freezing.

3.7 FIRE-DEPARTMENT CONNECTION INSTALLATION

- A. Install wall-type, fire-department connections. Location shall be coordinated with local fire department and architect.
- B. Install automatic (ball drip) drain valve at each check valve for fire-department connection.

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3.8 ESCUTCHEON INSTALLATION

- A. Install escutcheons for penetrations of walls, ceilings, and floors.
- B. Escutcheons for New Piping:
 - 1. Piping with Fitting or Sleeve Protruding from Wall: One piece, deep pattern.
 - 2. Bare Piping at Wall and Floor Penetrations in Finished Spaces: One piece, cast brass with polished chrome-plated finish stamped steel with set-screw or spring clips.
 - 3. Bare Piping at Ceiling Penetrations in Finished Spaces: One piece or split casting, cast brass with polished chrome-plated finish.
 - 4. Bare Piping in Unfinished Service Spaces: One piece, cast brass with polished chrome-plated finish stamped steel with set-screw or spring clips.
 - 5. Bare Piping in Equipment Rooms: One piece, cast brass stamped steel with set-screw or spring clips.
 - 6. Bare Piping at Floor Penetrations in Equipment Rooms: One-piece floor plate.

3.9 SLEEVE INSTALLATION

- A. General Requirements: Install sleeves for pipes and tubes passing through penetrations in floors, partitions, roofs, and walls.
- B. Sleeves are not required for core-drilled holes.
- C. Permanent sleeves are not required for holes formed by removable PE sleeves.
- D. Cut sleeves to length for mounting flush with both surfaces unless otherwise indicated.
- E. Install sleeves in new partitions, slabs, and walls as they are built.
- F. For interior wall penetrations, seal annular space between sleeve and pipe or pipe insulation using joint sealants appropriate for size, depth, and location of joint. Comply with requirements for joint sealants in Division 07 Section "Joint Sealants."
- G. For exterior wall penetrations above grade, seal annular space between sleeve and pipe using joint sealants appropriate for size, depth, and location of joint. Comply with requirements for joint sealants in Division 07 Section "Joint Sealants."
- H. For exterior wall penetrations below grade, seal annular space between sleeve and pipe using sleeve seals.
- I. Seal space outside of sleeves in concrete slabs and walls with grout.
- J. Install sleeves that are large enough to provide 1/4-inch annular clear space between sleeve and pipe or pipe insulation unless otherwise indicated.
- K. Install sleeve materials according to the following applications:
 - 1. Sleeves for Piping Passing through Concrete Floor Slabs: Galvanized-steel pipe.

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2. Sleeves for Piping Passing through Concrete Floor Slabs of Mechanical Equipment Areas or Other Wet Areas: Galvanized-steel pipe.
 - a. Extend sleeves 2 inches above finished floor level.
 - b. For pipes penetrating floors with membrane waterproofing, extend cast-iron sleeve fittings below floor slab as required to secure clamping ring if ring is specified. Secure flashing between clamping flanges. Install section of cast-iron soil pipe to extend sleeve to 2 inches above finished floor level. Comply with requirements for flashing in Division 07 Section "Sheet Metal Flashing and Trim."
3. Sleeves for Piping Passing through Gypsum-Board Partitions:
 - a. Galvanized-steel-pipe sleeves for pipes smaller than NPS 6.
 - b. Galvanized-steel-sheet sleeves for pipes NPS 6 and larger.
 - c. Exception: Sleeves are not required for water-supply tubes and waste pipes for individual plumbing fixtures if escutcheons will cover openings.
4. Sleeves for Piping Passing through Concrete Roof Slabs: Galvanized-steel pipe.
5. Sleeves for Piping Passing through Exterior Concrete Walls:
 - a. Galvanized-steel-pipe sleeves for pipes smaller than NPS 6.
 - b. Cast-iron wall-pipe sleeves for pipes NPS 6 and larger.
 - c. Install sleeves that are large enough to provide 1-inch annular clear space between sleeve and pipe or pipe insulation when sleeve seals are used.
6. Sleeves for Piping Passing through Interior Concrete Walls:
 - a. Galvanized-steel-pipe sleeves for pipes smaller than NPS 6.
 - b. Galvanized-steel-sheet sleeves for pipes NPS 6 and larger.
- L. Fire-Barrier Penetrations: Maintain indicated fire rating of walls, partitions, ceilings, and floors at pipe penetrations. Seal pipe penetrations with firestop materials. Comply with requirements for firestop materials and installations in Division 07 Section "Penetration Firestopping."

3.10 SLEEVE SEAL INSTALLATION

- A. Install sleeve seals in sleeves in exterior concrete walls at water-service piping entries into building.
- B. Select type and number of sealing elements required for pipe material and size. Position pipe in center of sleeve. Assemble sleeve seal components and install in annular space between pipe and sleeve. Tighten bolts against pressure plates that cause sealing elements to expand and make watertight seal.

3.11 IDENTIFICATION

- A. Install labeling and pipe markers on equipment and piping according to requirements in NFPA 13.

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- B. Identify system components, wiring, cabling, and terminals. Comply with requirements for identification specified in Division 26 Section "Identification for Electrical Systems."

3.12 FIELD QUALITY CONTROL

- A. Perform tests and inspections.
- B. Tests and Inspections:
 - 1. Leak Test: After installation, charge systems and test for leaks. Repair leaks and retest until no leaks exist.
 - 2. Test and adjust controls and safeties. Replace damaged and malfunctioning controls and equipment.
 - 3. Flush, test, and inspect sprinkler systems according to NFPA 13, "Systems Acceptance" Chapter.
 - 4. Energize circuits to electrical equipment and devices.
 - 5. Start and run excess-pressure pumps.
 - 6. Coordinate with fire-alarm tests. Operate as required.
 - 7. Coordinate with fire-pump tests. Operate as required.
 - 8. Verify that equipment hose threads are same as local fire-department equipment.
- C. Sprinkler piping system will be considered defective if it does not pass tests and inspections.
- D. Prepare test and inspection reports.

3.13 CLEANING

- A. Clean dirt and debris from sprinklers.
- B. Remove and replace sprinklers with paint other than factory finish.

3.14 DEMONSTRATION

- A. Train Owner's maintenance personnel to adjust, operate, and maintain specialty valves.

3.15 PIPING SCHEDULE

- A. Piping between Fire-Department Connections and Check Valves: Galvanized, standard-weight steel pipe with grooved ends; grooved-end fittings; grooved-end-pipe couplings; and grooved joints.
- B. Sprinkler specialty fittings may be used, downstream of control valves, instead of specified fittings.
- C. Copper-tube, extruded-tee connections may be used for tee branches in copper tubing instead of specified copper fittings. Branch-connection joints must be brazed.
- D. Standard-pressure, wet-pipe sprinkler system, NPS 2 and smaller, shall be one of the following:

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1. Standard-weight, black-steel pipe with threaded ends; uncoated, gray-iron threaded fittings; and threaded joints.
 2. Standard-weight, black-steel pipe with roll-grooved ends; uncoated, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.
 3. Standard-weight, black-steel pipe with plain ends; steel welding fittings; and welded joints.
 4. Type L, hard copper tube with plain ends; wrought-copper solder-joint fittings; and brazed joints for piping within skylights.
- E. Standard-pressure, wet-pipe sprinkler system, NPS 2-1/2 to NPS 8, shall be one of the following:
1. Standard-weight or Schedule 30, black-steel pipe with threaded ends; uncoated, gray-iron threaded fittings; and threaded joints.
 2. Standard-weight or Schedule 30, galvanized-steel pipe with threaded ends; galvanized, gray-iron threaded fittings; and threaded joints for piping within parking garage.
 3. Standard-weight or Schedule 30, black-steel pipe with roll-grooved ends; uncoated, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.
 4. Standard-weight or Schedule 30, black-steel pipe with plain ends; steel welding fittings; and welded joints.
 5. Schedule 10, black-steel pipe with roll-grooved ends; uncoated, grooved-end fittings for steel piping; grooved-end-pipe couplings for steel piping; and grooved joints.
 6. Schedule 10, black-steel pipe with plain ends; welding fittings; and welded joints.
 7. Piping in swimming pool area shall be CPVC pipe and fittings.
- F. High-pressure, wet-pipe sprinkler system, NPS 4 and smaller, shall be one of the following:
1. Standard-weight, galvanized-steel pipe with threaded ends; galvanized, gray-iron threaded fittings; and threaded joints.
 2. Standard-weight, black-steel pipe with plain ends; steel welding fittings; and welded joints.
- G. High-pressure, wet-pipe sprinkler system, NPS 5 and larger, shall be one of the following:
1. Standard-weight or, galvanized-steel pipe with threaded ends; galvanized, gray-iron threaded fittings; and threaded joints.
 2. Standard-weight, black-steel pipe with plain ends; steel welding fittings; and welded joints.
- H. In Rooms CP005, CP005B, CP005C & 150 sprinkler piping shall be schedule 40 galvanized steel pipe and fittings.

3.16 SPRINKLER SCHEDULE

- A. Use sprinkler types in subparagraphs below for the following applications:
1. Rooms without Ceilings: Upright sprinklers with sprinkler guards.
 2. Rooms with Suspended Ceilings: Concealed sprinklers. Cover plate color as selected by architect.
 3. Wall Mounting: Sidewall sprinklers.
 4. Spaces Subject to Freezing: Upright, pendent, dry sprinklers; and sidewall, dry sprinklers as indicated.

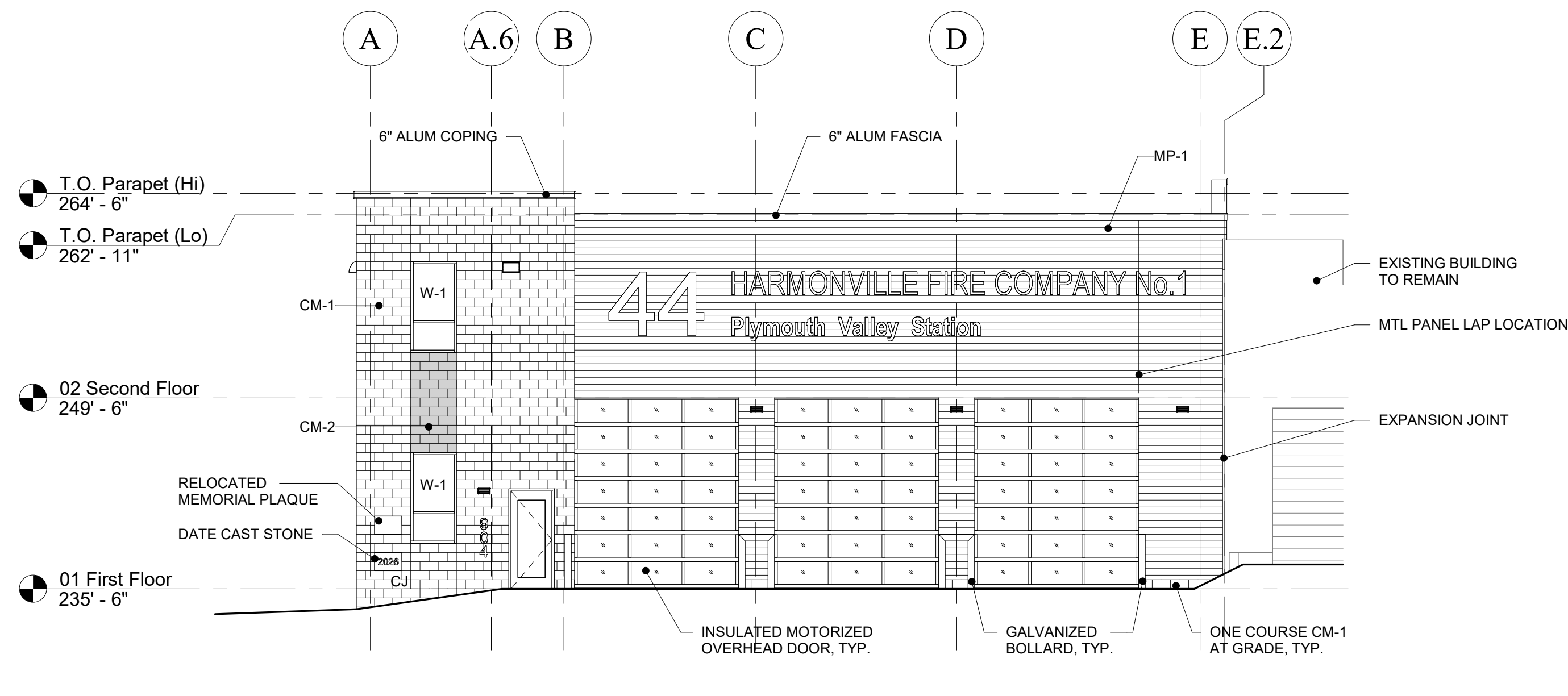
A New Fire Station for
Harmonville Fire Company – Plymouth Valley Station

5. Special Applications: Extended-coverage and quick-response sprinklers where indicated.
6. Sprinkler heads within Pool area and poll equipment room shall be factory coated corrosion resistant type.
7. Sprinkler heads within special ceiling area (Lobby Area) shall be chrome pendent type and installed per detail on drawings.

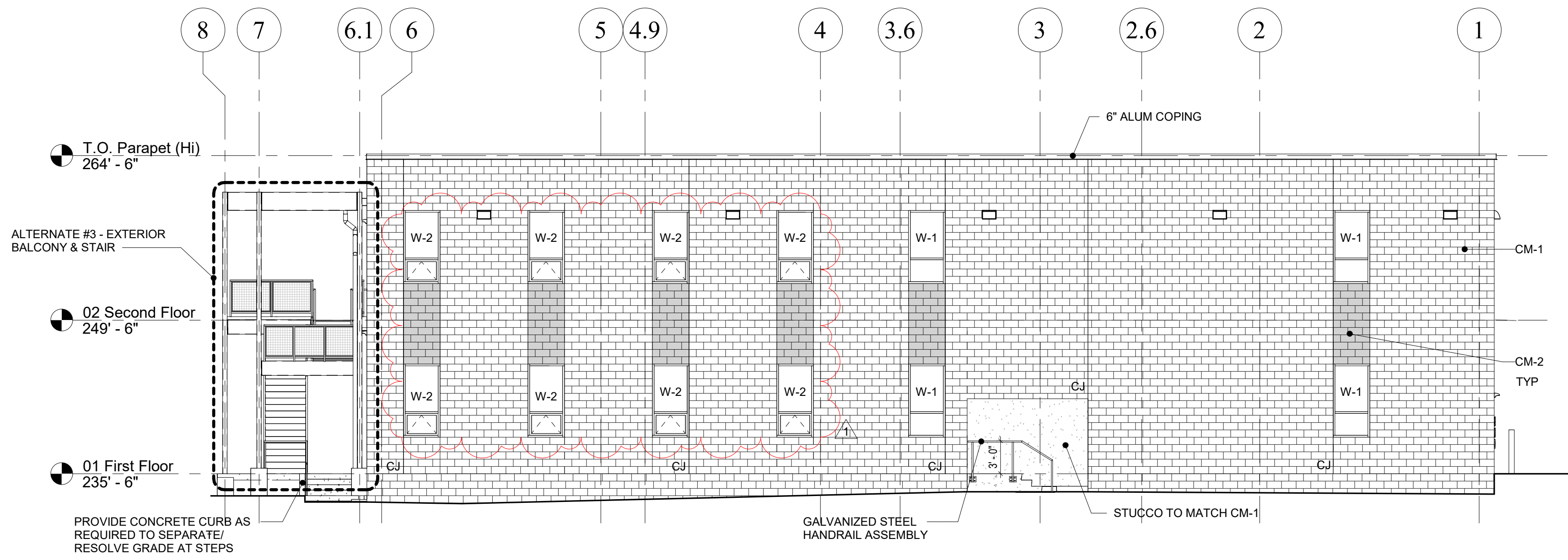
B. Provide sprinkler types in subparagraphs below with finishes indicated.

1. Concealed Sprinklers: Rough brass, with factory-painted cover plate with color as selected by architect.
2. Sidewall Sprinklers: Chrome plated in finished spaces exposed to view; rough bronze in unfinished spaces not exposed to view; factory coated to prevent corrosion in noted areas.

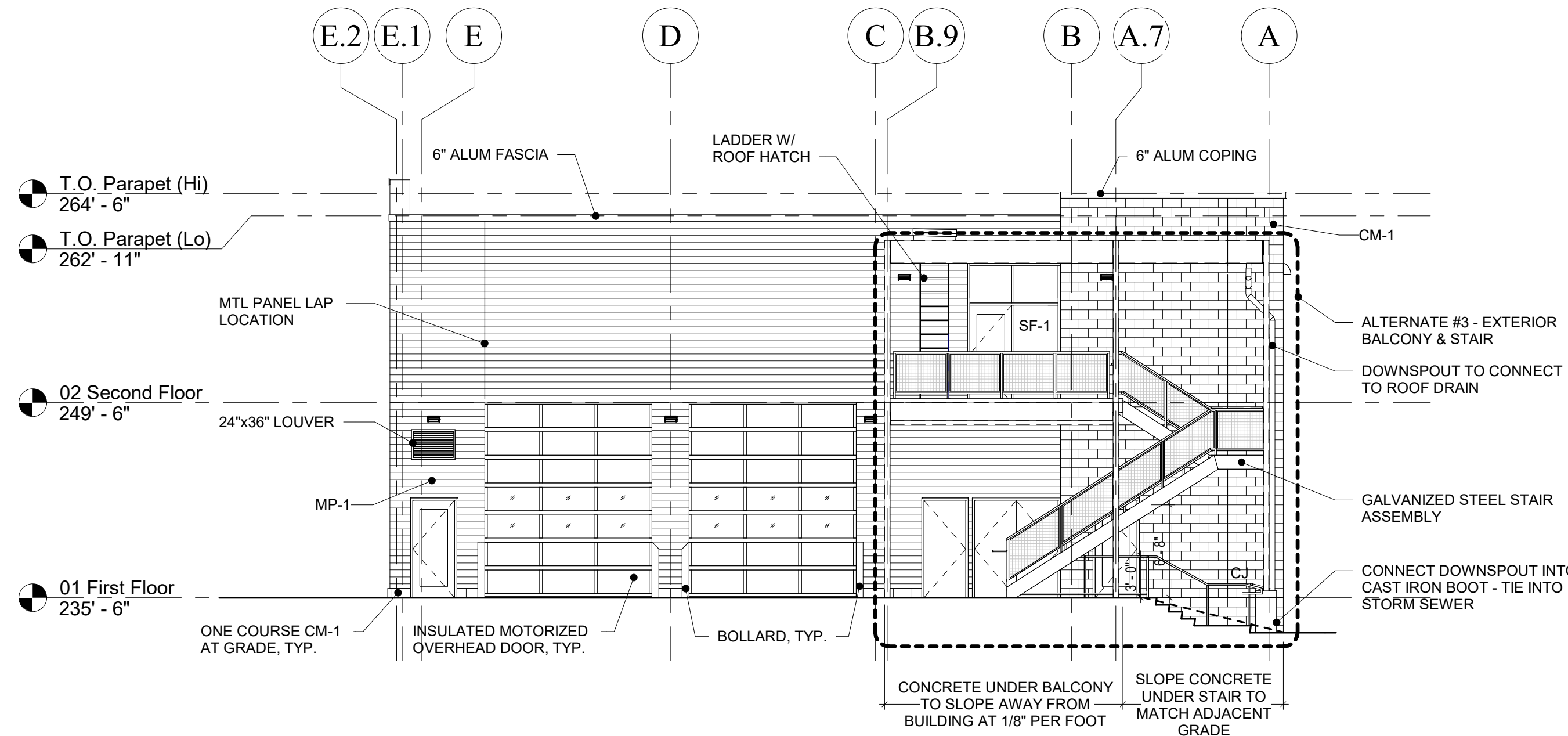
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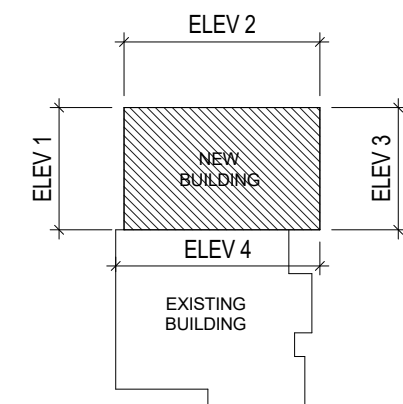
1 EXTERIOR ELEVATION - WEST
A3.01 1/8" = 1'-0"



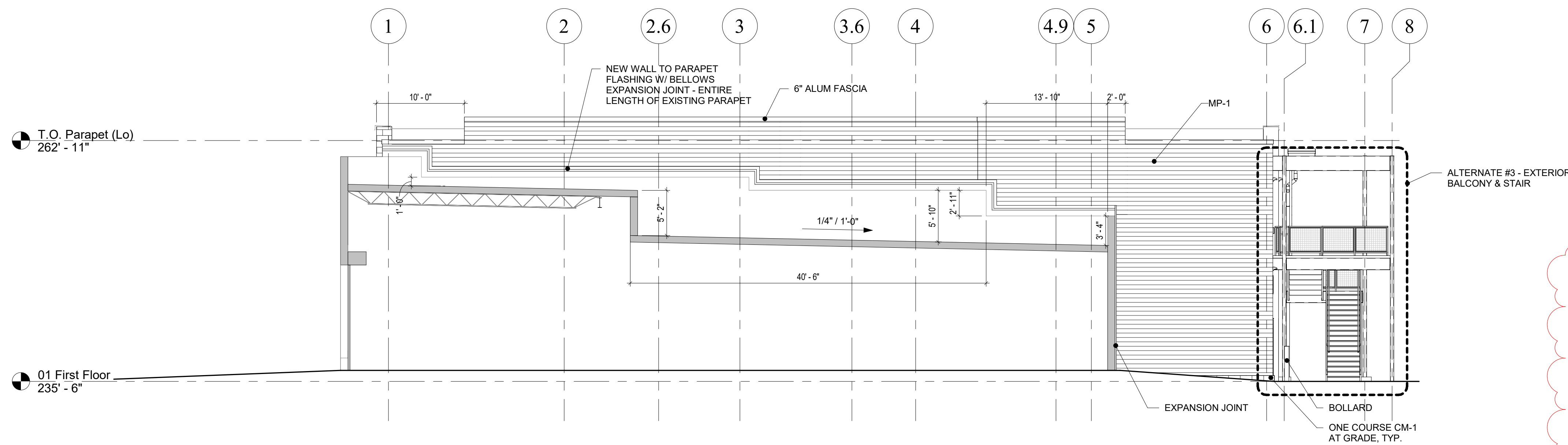
2 EXTERIOR ELEVATION - NORTH
A3.01 1/8" = 1'-0"



3 EXTERIOR ELEVATION - EAST
A3.01 1/8" = 1'-0"



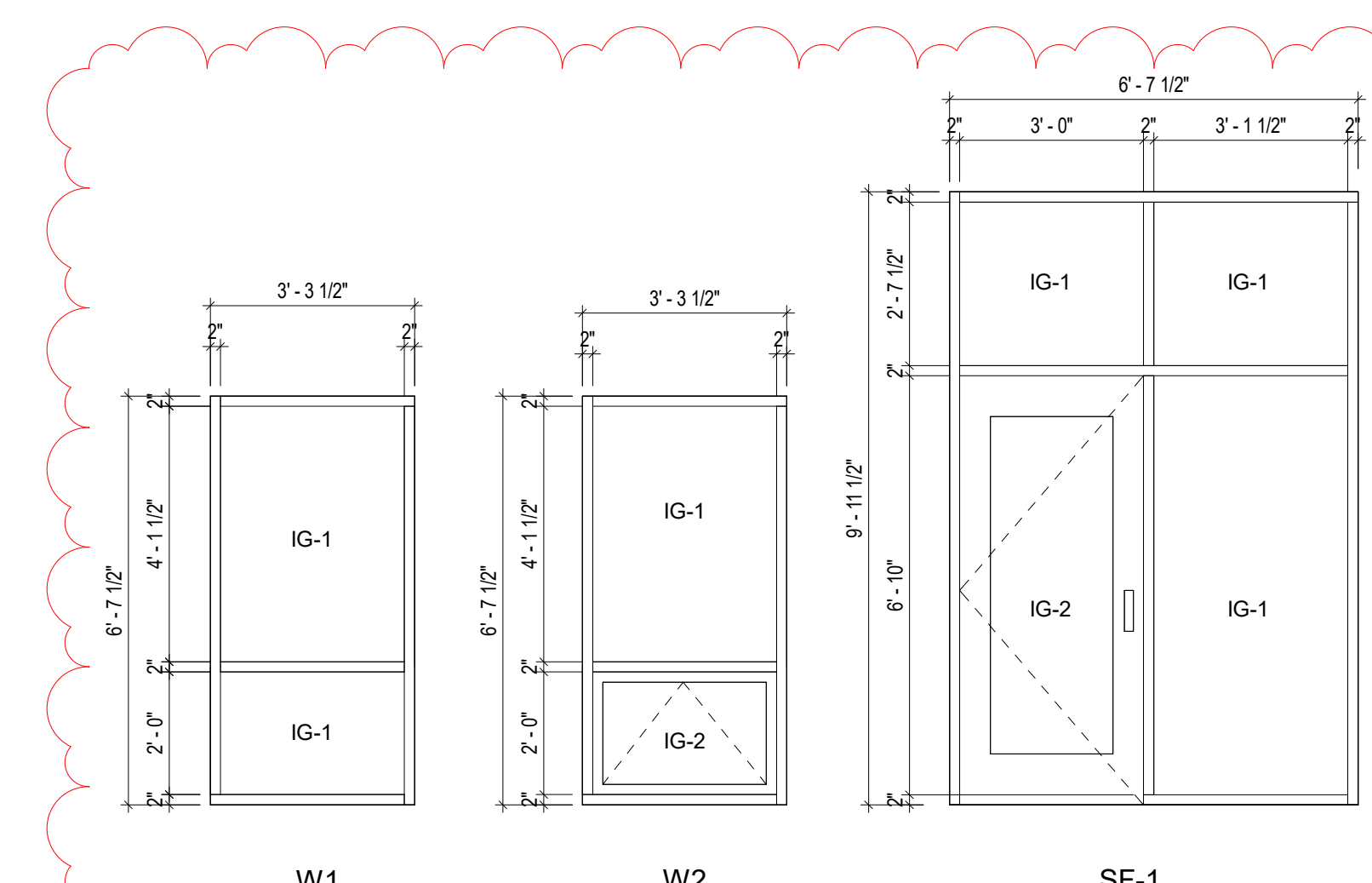
KEY PLAN



4 EXTERIOR ELEVATION - SOUTH
A3.01 1/8" = 1'-0"

ELEVATION NOTES

- CONTROL JOINTS SHOWN ARE EXTERIOR CONTROL JOINTS. SEE PLAN FOR INTERIOR BLOCK CONTROL JOINTS.
- COORDINATE LOUVER REQUIREMENTS, QUANTITIES & SIZES WITH MECHANICAL DWGS. ANY REQUIRED LOUVERS NOT SHOWN ON THE ELEVATIONS MUST BE PROVIDED. COORDINATE LOCATIONS WITH THE ARCHITECT.
- ALL LOUVERS, LIGHTS, OR SPEAKERS SHOWN ABOVE AND/OR BELOW DOORS OR WINDOWS ARE TO BE CENTERED ON THE DOOR OR WINDOW UNLESS NOTED OTHERWISE.
- ALL LIGHTS OR SPEAKERS SHOWN BETWEEN TWO DOORS OR WINDOWS ARE TO BE CENTERED BETWEEN THE SAME.



EXTERIOR FINISH LEGEND

- CM-1 DECORATIVE CONCRETE MASONRY UNIT
- CM-2 DECORATIVE CONCRETE MASONRY UNIT
- MP-1 METAL WALL PANEL

ALUMINUM WINDOW LEGEND

- SF-1 4 1/2" ALUMINUM STOREFRONT SYSTEM
- W-1 FIXED ALUMINUM WINDOW UNIT
- W-2 OPERABLE AWNING ALUMINUM WINDOW UNIT

ISSUED FOR BIDDING

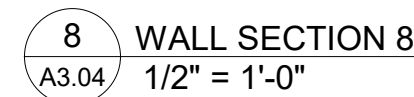
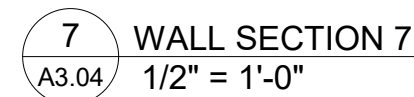
EXTERIOR ELEVATIONS
1 - 4

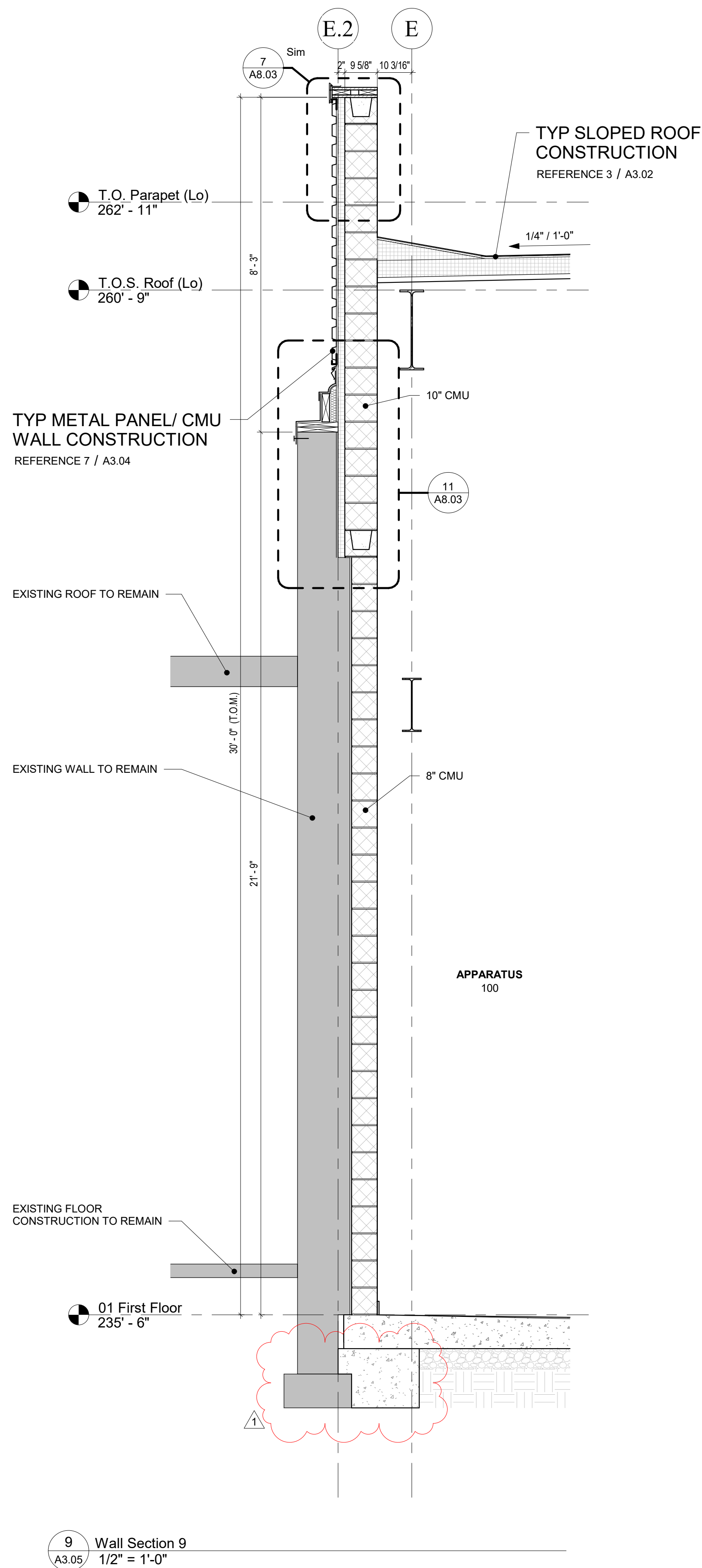
JOB NO. 2587.00
DATE 03.06.2025
SHEET NO.

A3.01

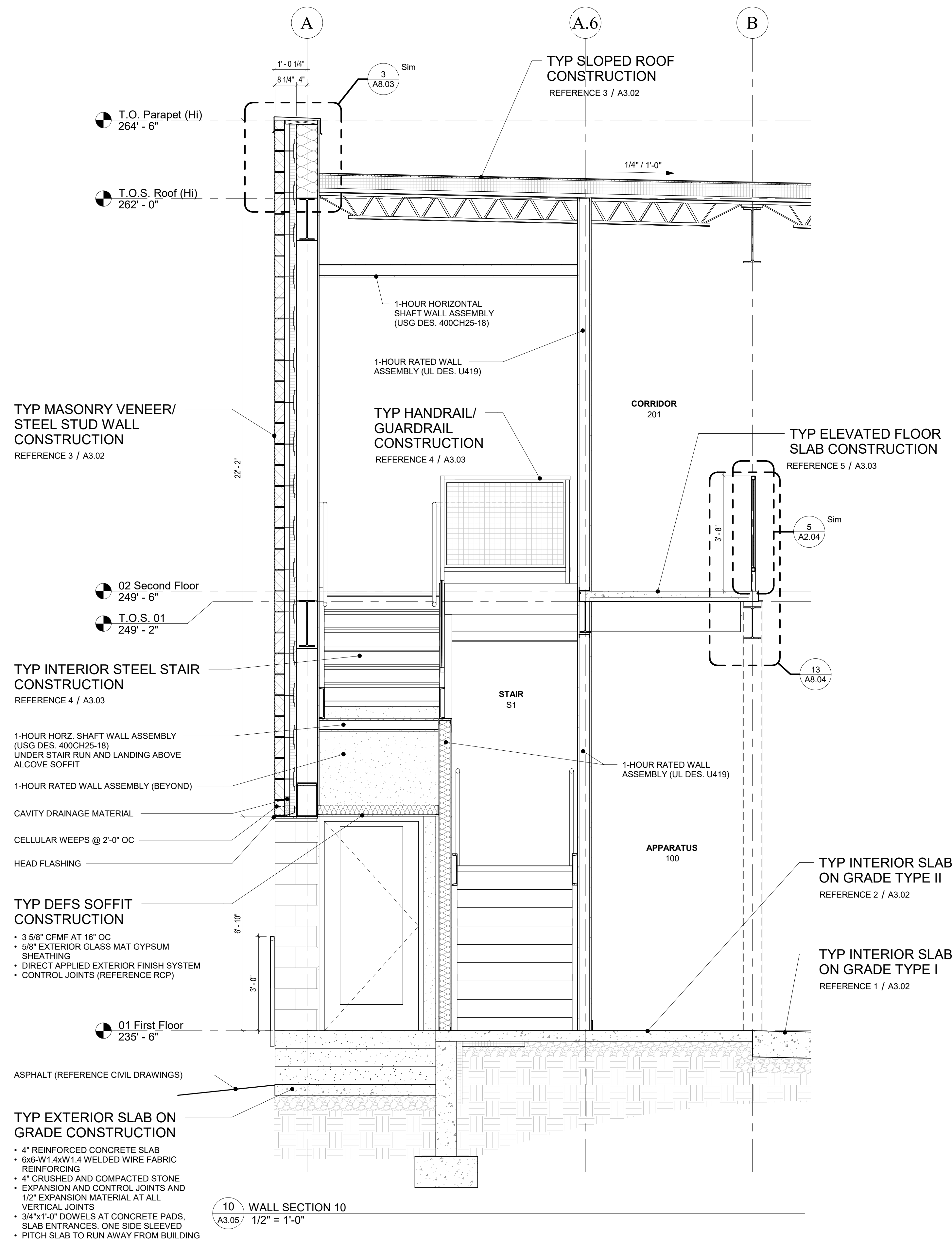
NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
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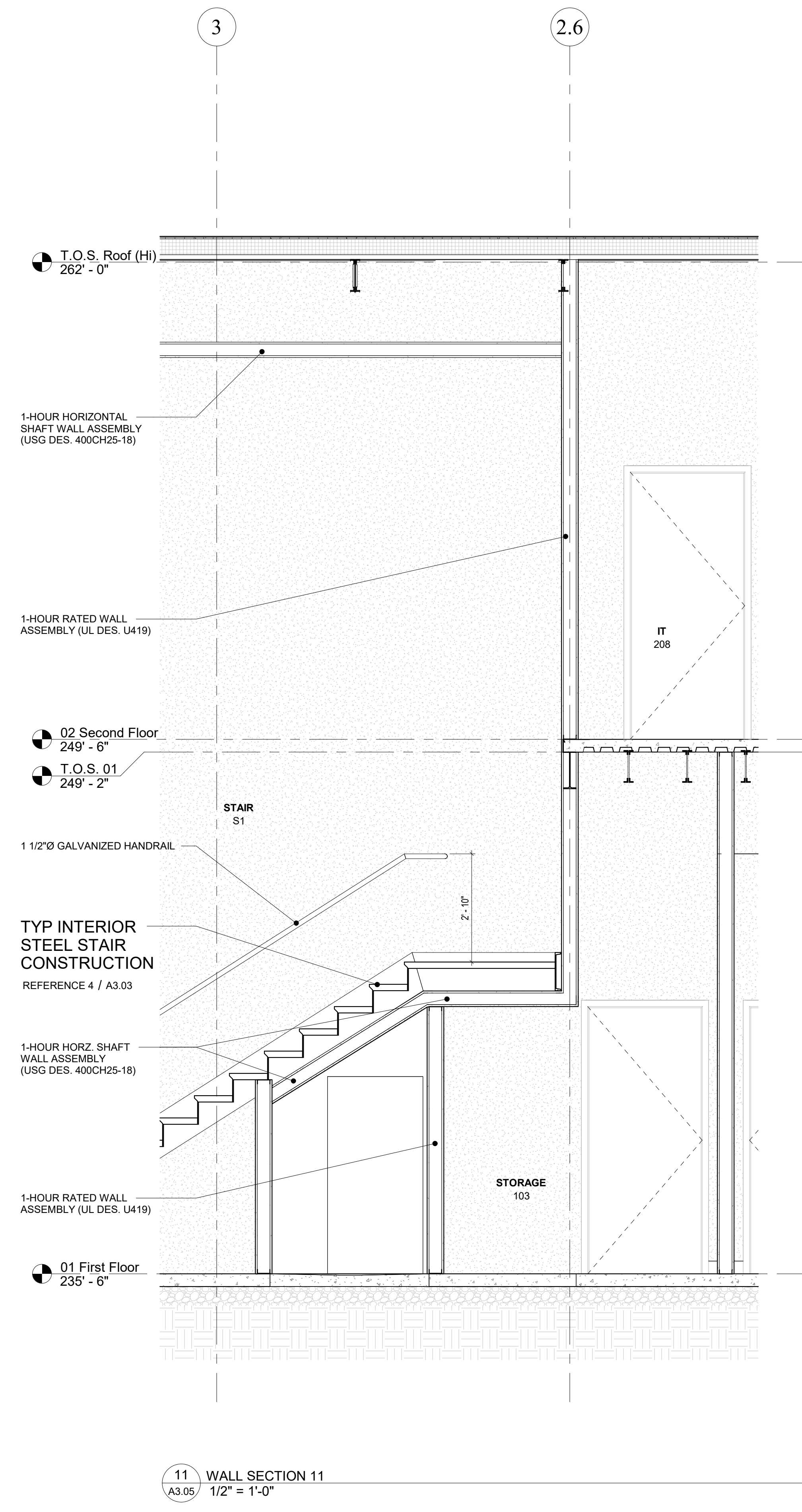




9 Wall Section 9
A3.05 1/2\"/>



10 WALL SECTION 10
A3.05 1/2\"/>



11 WALL SECTION 11
A3.05 1/2\"/>

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WALL SECTIONS 9 - 11

JOB NO. 2587.00
DATE 03.06.2025
SHEET NO.

A3.05

MARK	DATE	DESCRIPTION
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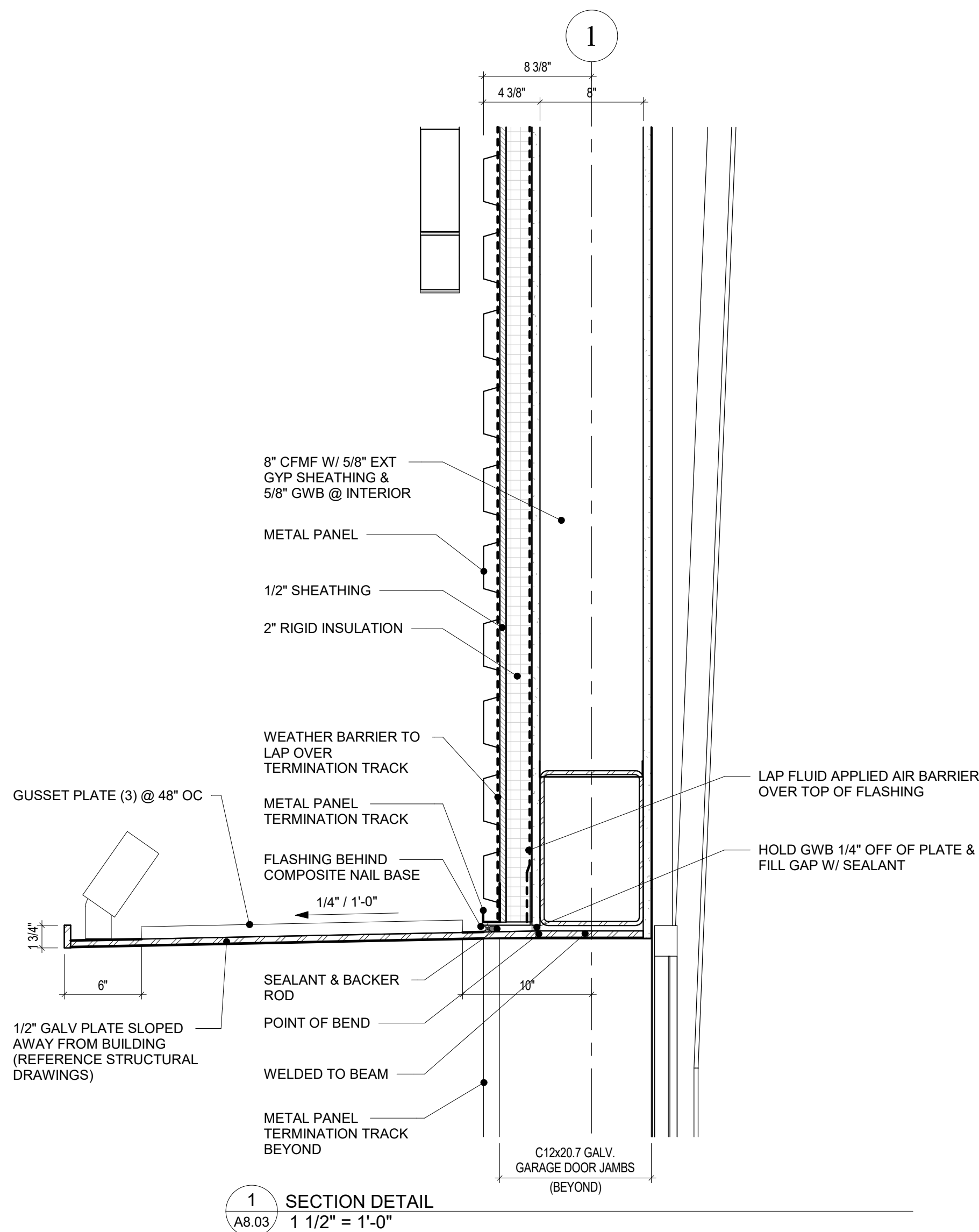
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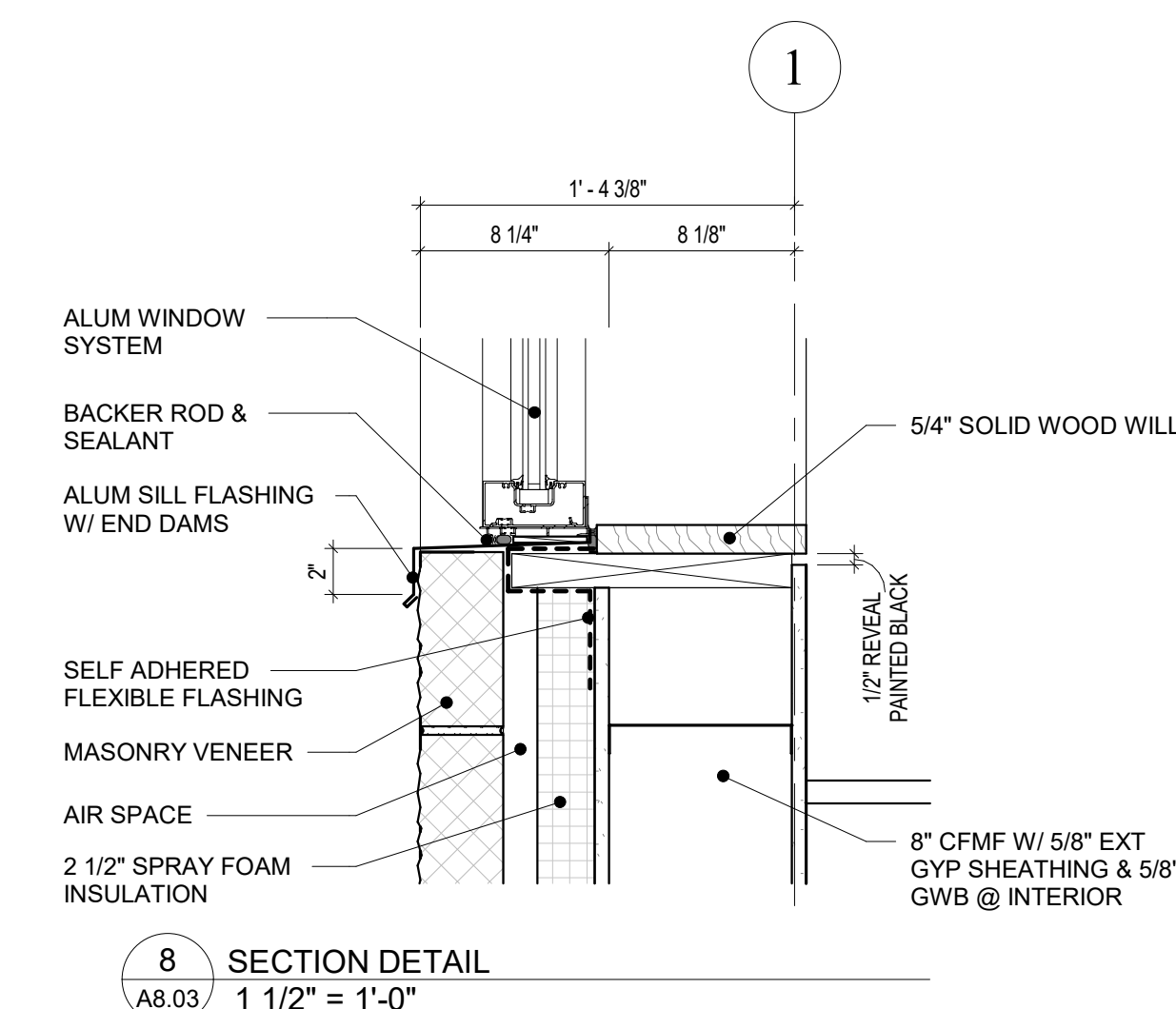
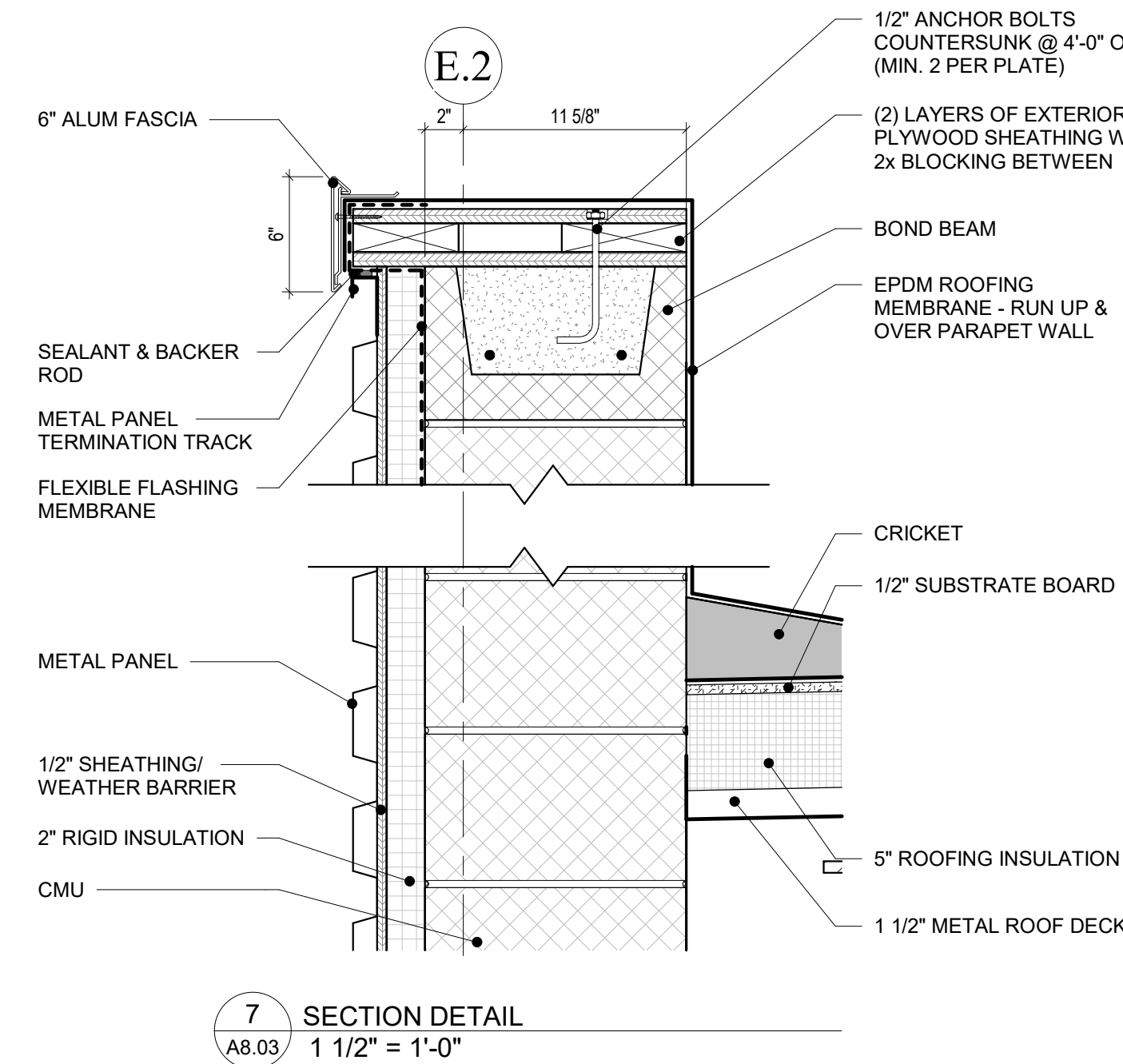
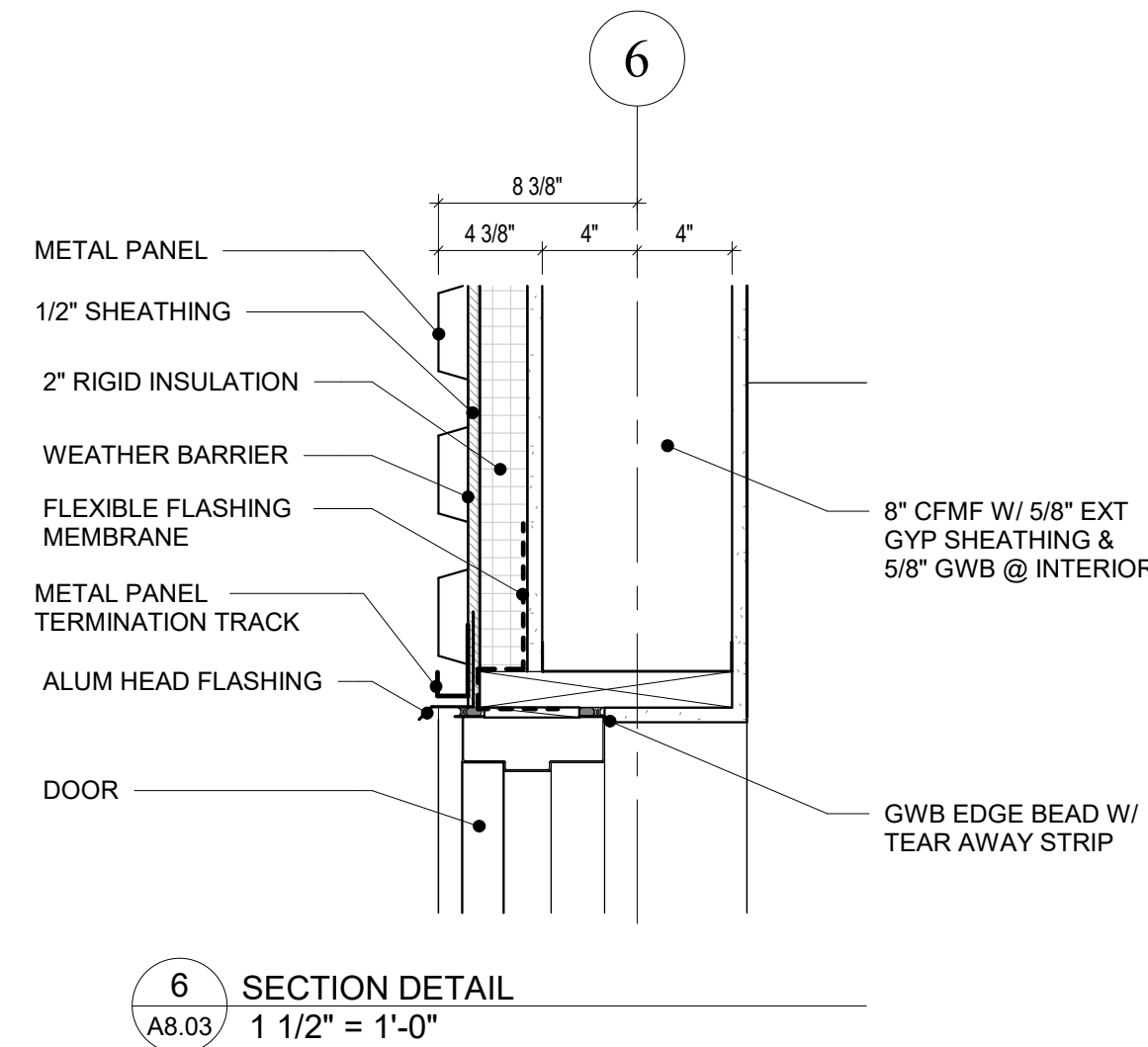
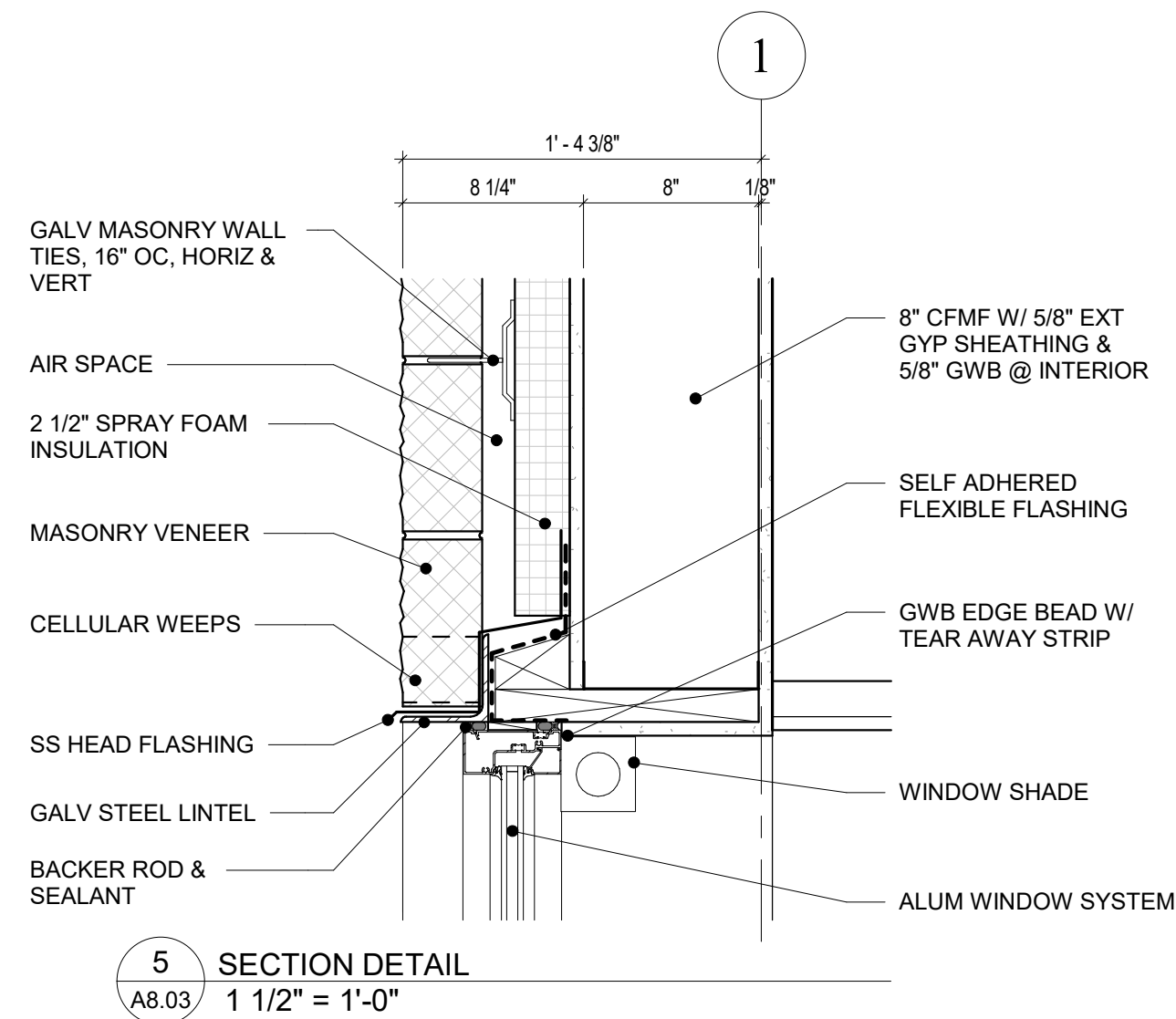
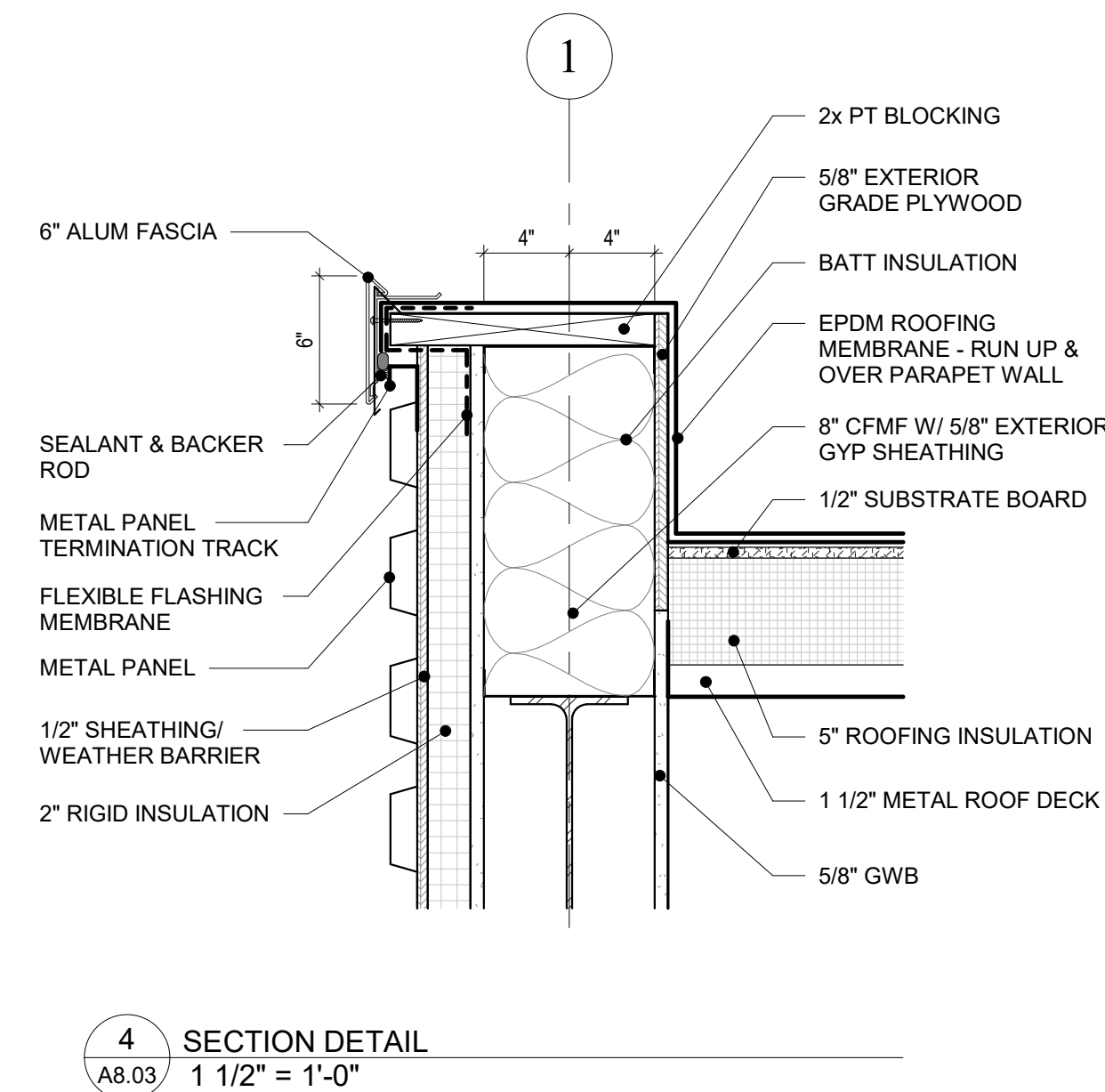
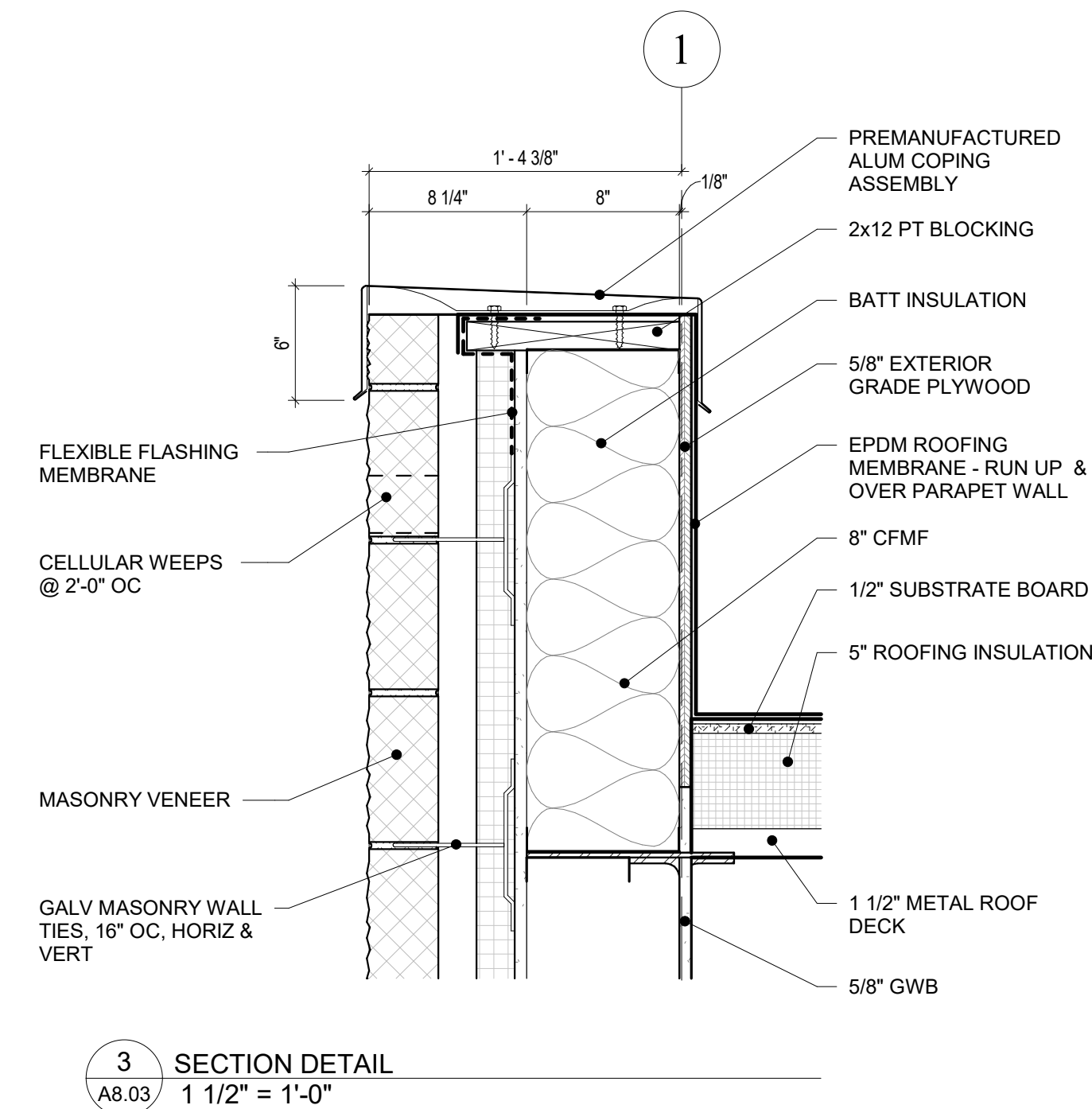
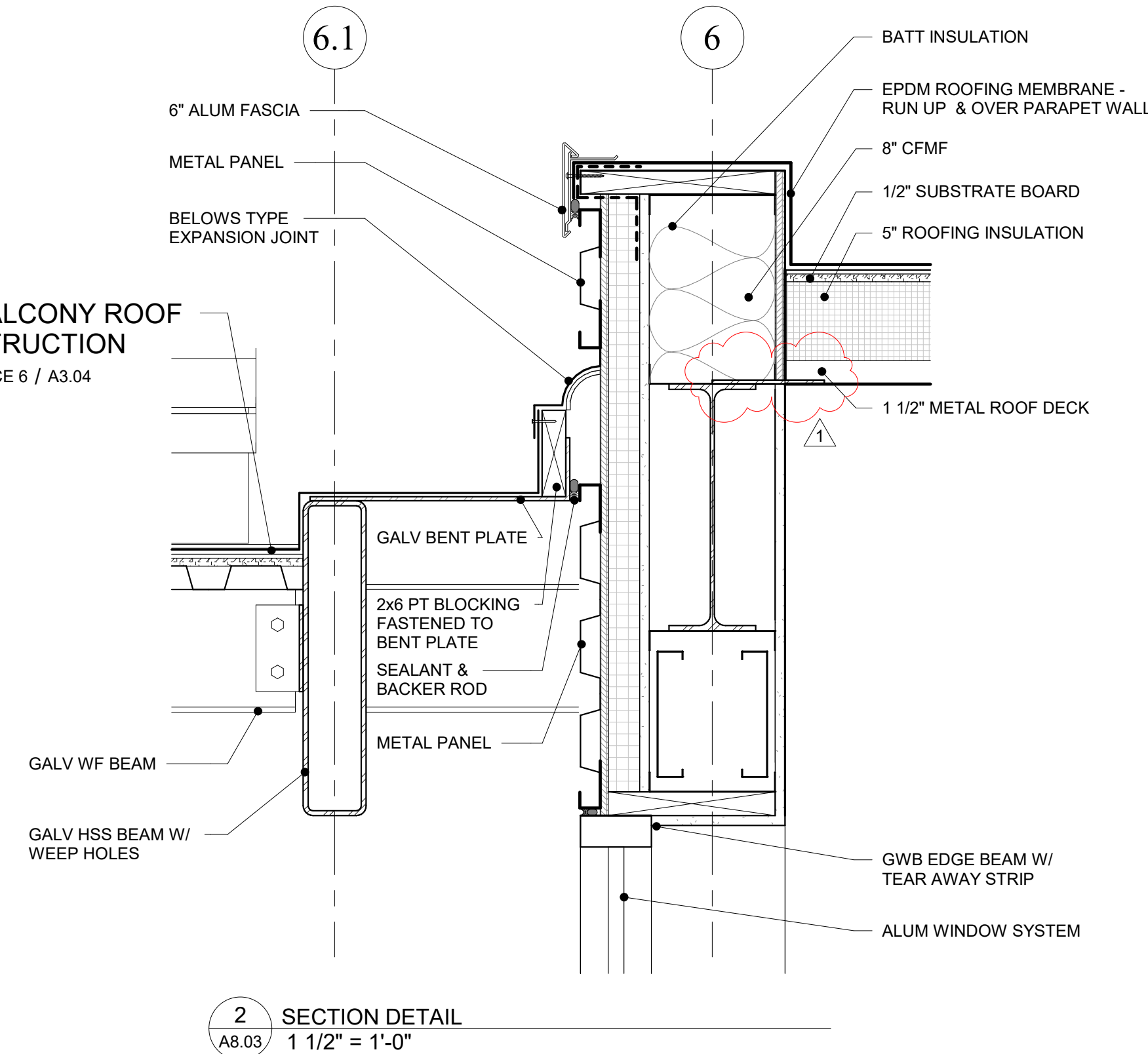
CONSULTANTS

kcb Architects
Eight East Broad Street
Plymouth, PA 15460-2407
P 215.388.5806
kcb-architects.com

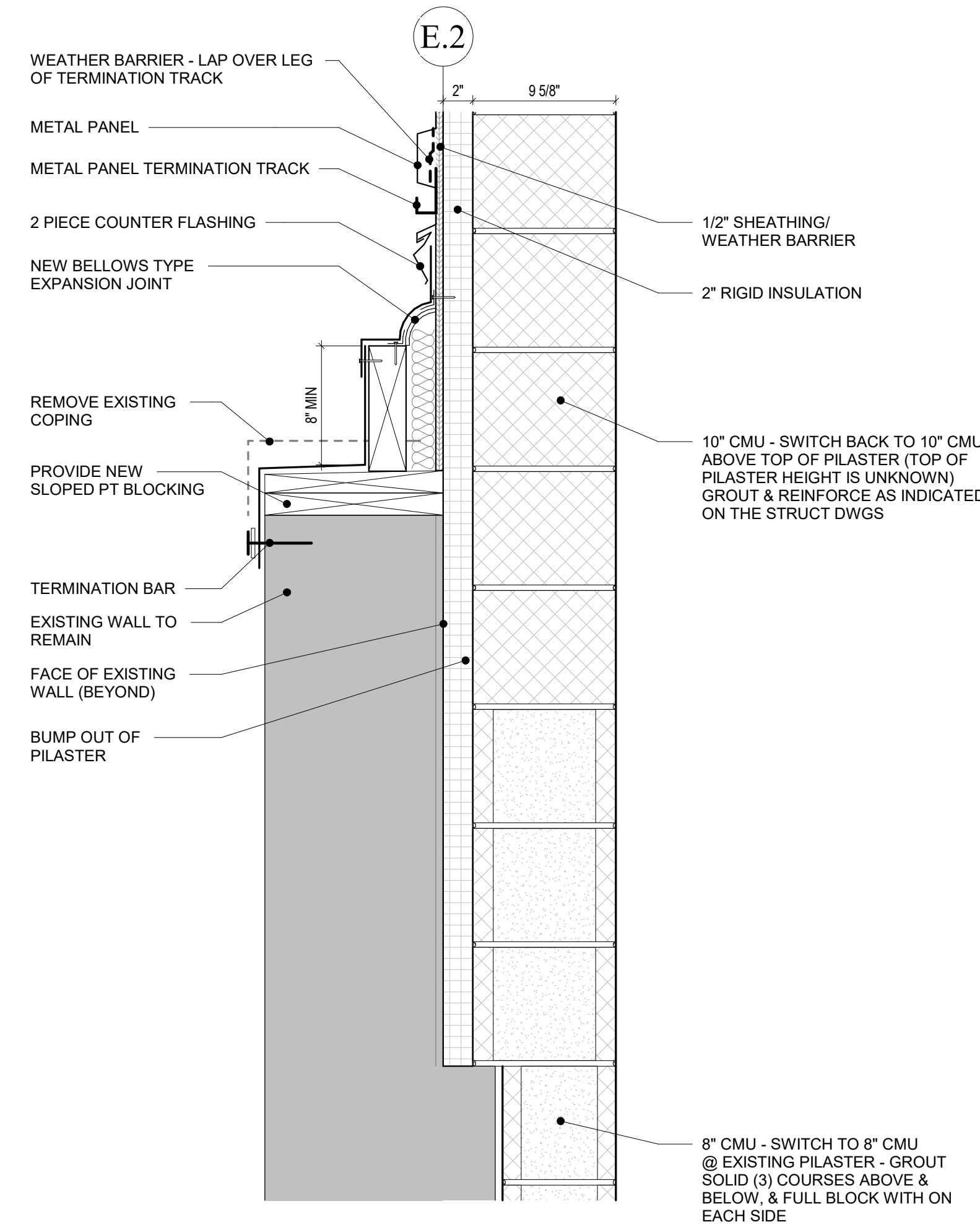
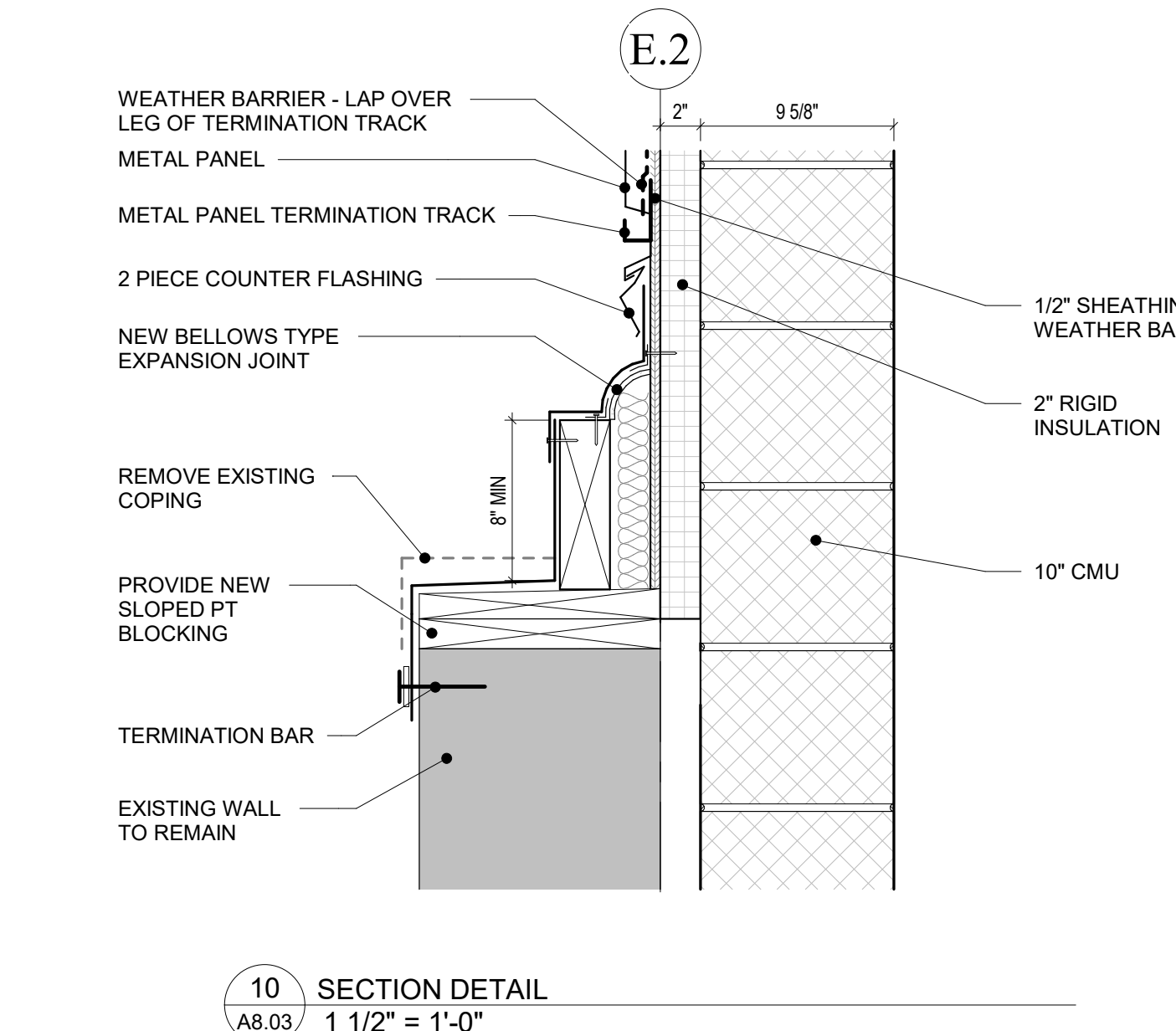
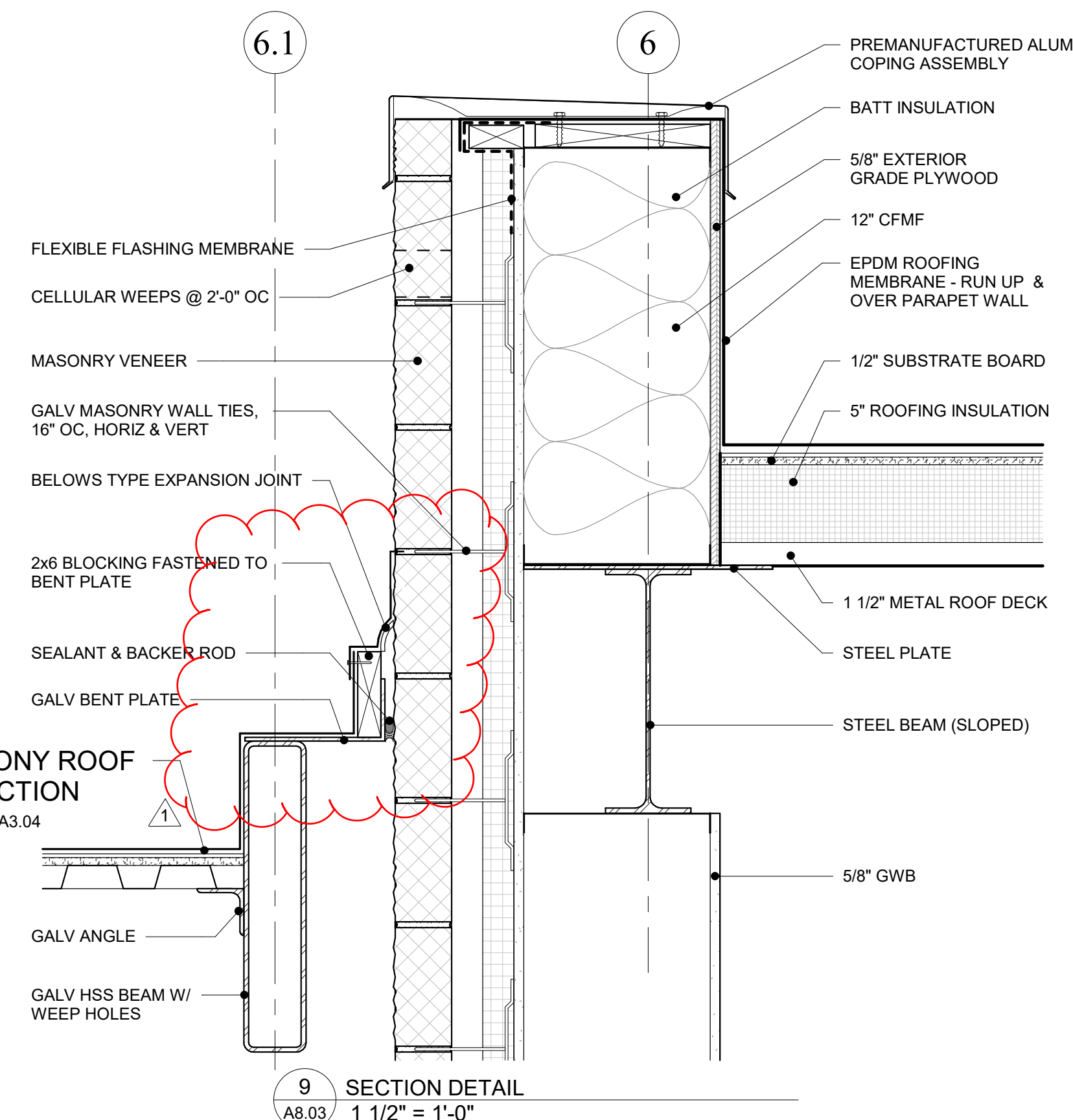
KCBA Architects
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P 215.388.5806
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TYP BALCONY ROOF CONSTRUCTION
REFERENCE 6 / A3.04



TYP BALCONY ROOF CONSTRUCTION
REFERENCE 6 / A3.04



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SECTION DETAILS

A8.03

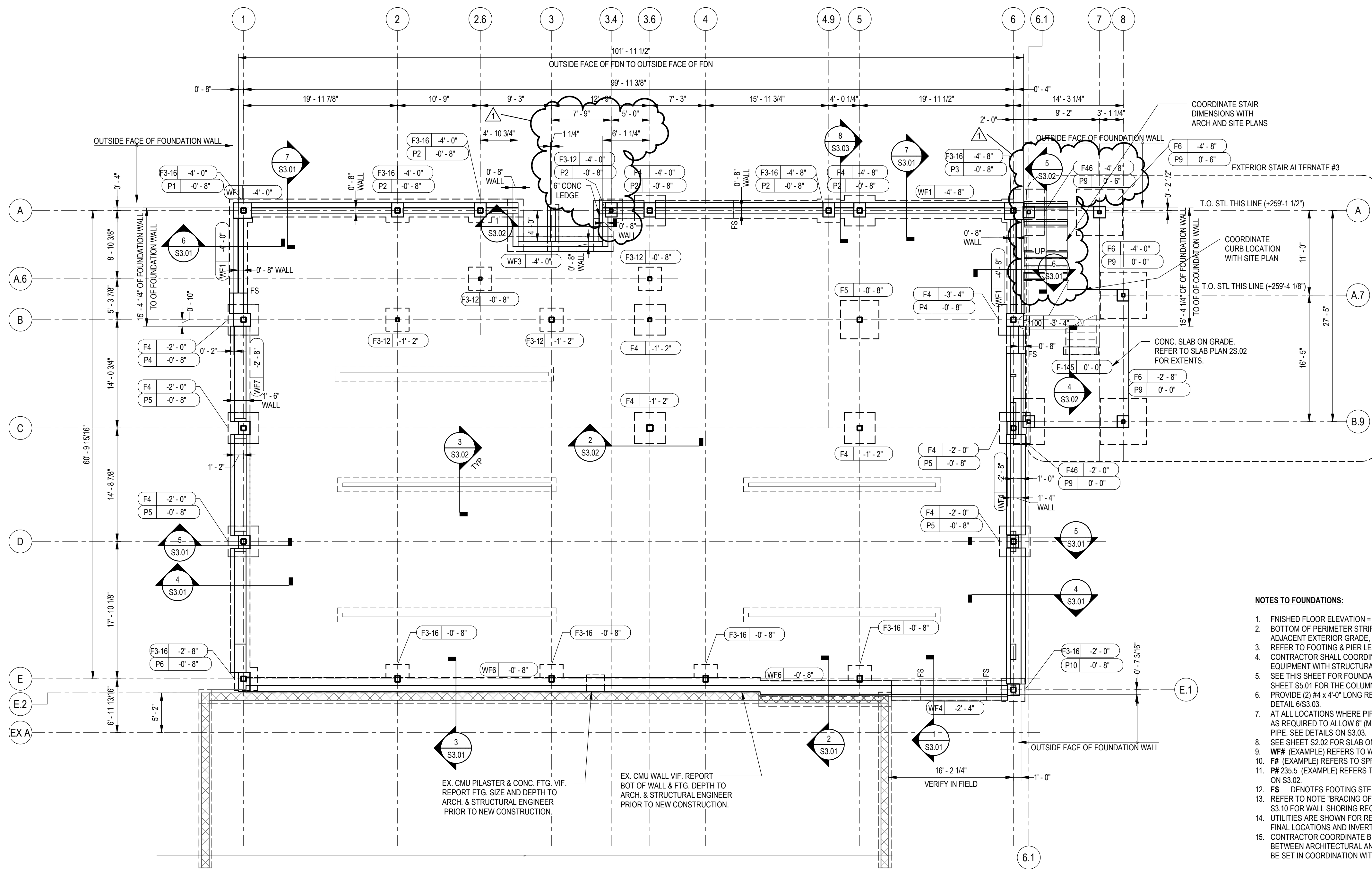
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1	3-21-25	ADDENDUM 1	

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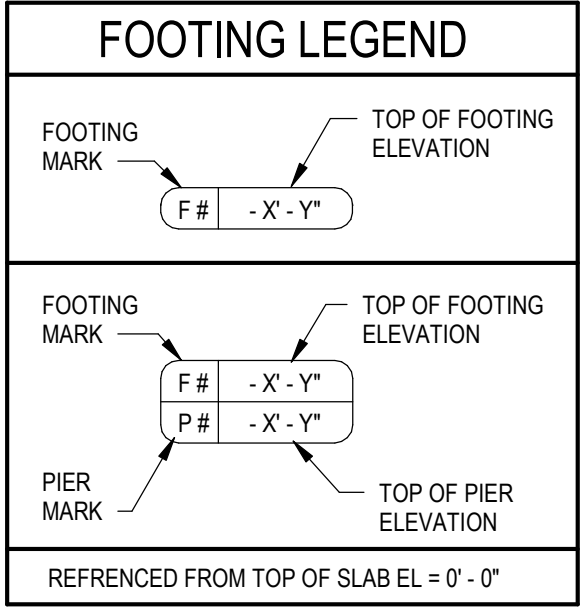
JOB NO. 2587.00
DATE 03.06.2025
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NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

kcb Architects
CONSULTANTS
KCSA Architects
Eight East Broad Street
Plymouth, PA 15460-2407
P 215.388.5806
kcsa-architects.com



FOOTING SCHEDULE			
MARK	SIZE (LxWxTHICKNESS)	REINFORCING	REMARKS
F3-12	3'-0" x 3'-0" x 1'-0"	(5) - #5 EW BOT	
F3-16	3'-0" x 3'-0" x 1'-4"	(5) - #5 EW BOT	
F4	4'-0" x 4'-0" x 1'-4"	(6) - #5 EW BOT	
F5	5'-0" x 5'-0" x 1'-4"	(7) - #5 EW BOT	
F6	6'-0" x 6'-0" x 1'-6"	(8) - #5 EW BOT	
F46	4'-0" x 6'-0" x 1'-6"	(9) - #5 SW BOT (6) - #5 LW BOT	
F150	1'-0" x 5'-0" (F150)	(3) - #4 LW (7) - #4 SW	
F1100	1'-0" x 10'-0" (F1100)	(3) - #4 LW (14) - #4 SW	
F-145	1'-0" x 4'-6" x 3'-2"	#5 @ 12" VERT (4) #4 LONGWAY	
WF1	2'-4" x 1'-4"		
WF2	2'-4" x 1'-0"		
WF3	2'-0" x 1'-0"		
WF4	2'-6" x 1'-4"		
WF6	2'-0" x 1'-7 1/2" CUSTOM		
WF7	2'-6" x 1'-0"		



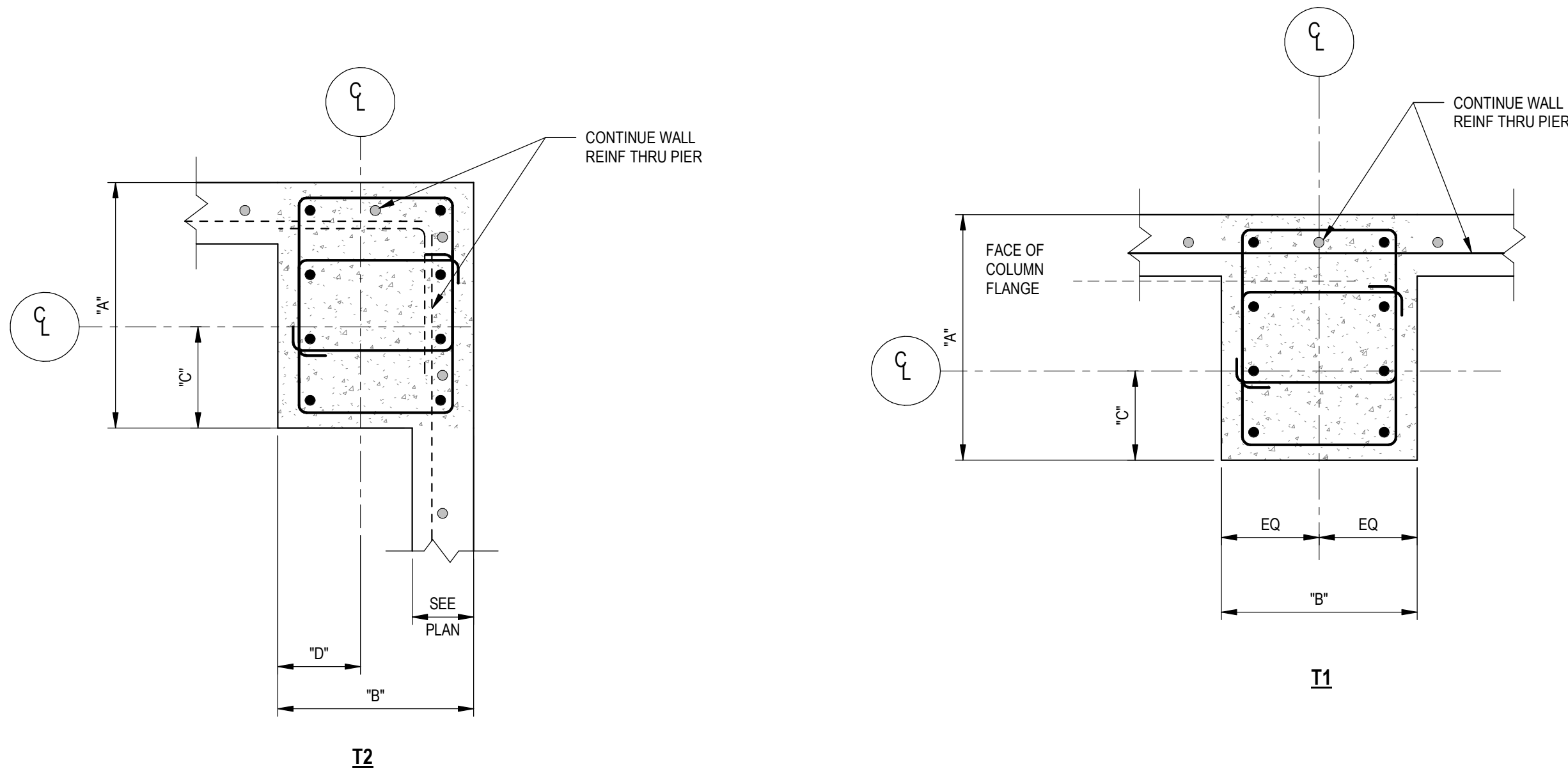
PIER SCHEDULE									
MARK	SIZE			TYPE	REINFORCEMENT		ANCHOR BOLT		REMARKS
	"A"	"B"	"C"		VERT	TIES	TYPE	QTY	
P1	22'	18'	10'	T2	8-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		D=10"
P2	18'	20'	10'	T1	8-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P3	20'	30'	10'	T2	10-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		D=10"
P4	22'	20'	10'	T1	8-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P5	18'	20'	10'	T1	8-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P6	18'	20'	10'	T1	8-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P7	38'	24'	17'	T1	16-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P8	43'	24'	17'	T1	18-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P9	18'	18'	10'	T3	6-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		
P10	18'	18'	10'	T2	8-#7	#4 TIES @ 8" O.C.	SEE COLUMN SCHEDULE		D=10"

- NOTES:
- DIMENSIONS "A" AND "B" REPRESENTS LIMIT OF PIER REINFORCING.
 - COORDINATE DIMENSIONS "A" AND "B" WITH COLUMN SCHEDULE ON DRAWING S5.01 AND BASE PLATE DIMENSIONS TO MAINTAIN A MINIMUM OF 2" DIMENSION FROM EDGE OF BASE PLATE TO EDGE OF PIER, VERIFY DIMENSIONS PRIOR TO FABRICATION OF REINFORCING AND CONSTRUCTION OF PIERS.
 - REINFORCE TOP OF PIER WITH ADDITIONAL TIES @ 3" OC FULL DEPTH OF ANCHOR RODS.

- NOTES TO FOUNDATIONS:
- FINISHED FLOOR ELEVATION = 235.5' REFERENCE FINISHED FLOOR ELEVATION = 0'-0"
 - BOTTOM OF PERIMETER STRIP AND SPREAD FOOTINGS TO BE (+) 3'-0" (MIN.) FROM FINISHED ADJACENT EXTERIOR GRADE, U.N.O.
 - REFER TO FOOTING & PIER LEGEND THIS DRAWING FOR TOP OF FOOTING & PIER NOTATIONS.
 - CONTRACTOR SHALL COORDINATE ALL VENDOR REQUIREMENTS FOR SPECIALIZED EQUIPMENT WITH STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
 - SEE THIS SHEET FOR FOUNDATION NOTES. SEE SHEET S0.01 FOR GENERAL NOTES AND SHEET S5.01 FOR THE COLUMN SCHEDULE.
 - PROVIDE (2) #4 x 4'-0" LONG REINFORCING BARS AT ALL RE-ENTRANT SLAB CORNERS. SEE DETAIL 6S3.03.
 - AT ALL LOCATIONS WHERE PIPING RUNS THROUGH FOUNDATION WALLS, DEEPEN FOOTINGS AS REQUIRED TO ALLOW 6" (MIN.) CLEARANCE BETWEEN PIPE AND TOP OF FOOTING. SLEEVE PIPE. SEE DETAILS ON S3.03.
 - SEE SHEET S2.02 FOR SLAB ON GRADE PLAN.
 - WF# (EXAMPLE) REFERS TO WALL FOOTING MARK. SEE SCHEDULE ON THIS SHEET.
 - F# (EXAMPLE) REFERS TO SPREAD FOOTING MARK. SEE SCHEDULE ON THIS SHEET.
 - P# 235.5 (EXAMPLE) REFERS TO PIER TYPE AND TOP OF PIER ELEVATION. SEE PIER DETAIL ON S3.02.
 - FS# DENOTES FOOTING STEP. SEE DETAIL ON S3.02.
 - REFER TO NOTE "BRACING OF FOUNDATION WALLS PRIOR TO BACKFILLING" ON DRAWING S3.10 FOR WALL SHORING REQUIREMENTS AT FOUNDATION AND RETAINING WALLS.
 - UTILITIES ARE SHOWN FOR REFERENCE ONLY. REFER TO SPECIFIC MEP DRAWINGS FOR FINAL LOCATIONS AND INVERT ELEVATIONS.
 - CONTRACTOR COORDINATE BRICK LEDGE ELEVATIONS AT PERIMETER OF BUILDING BETWEEN ARCHITECTURAL AND CIVIL DRAWINGS. FINAL BRICK LEDGE ELEVATIONS ARE TO BE SET IN COORDINATION WITH FINAL SITE GRADING.

NOTE: ARCHITECTURAL PLAN. BACKGROUND INFORMATION IS SHOWN FOR REFERENCE AND COORDINATION ONLY. THE CONTRACTOR SHALL VERIFY ALL BACKGROUND DIMENSIONS, BUILDING COMPONENTS AND CONDITIONS WITH THE FINAL SET OF ARCHITECTURAL DRAWINGS ISSUED FOR CONSTRUCTION.

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



2 PIER TYPE T2
NOT TO SCALE

3 PIER TYPE T1
NOT TO SCALE

4 PIER TYPE T3
NOT TO SCALE

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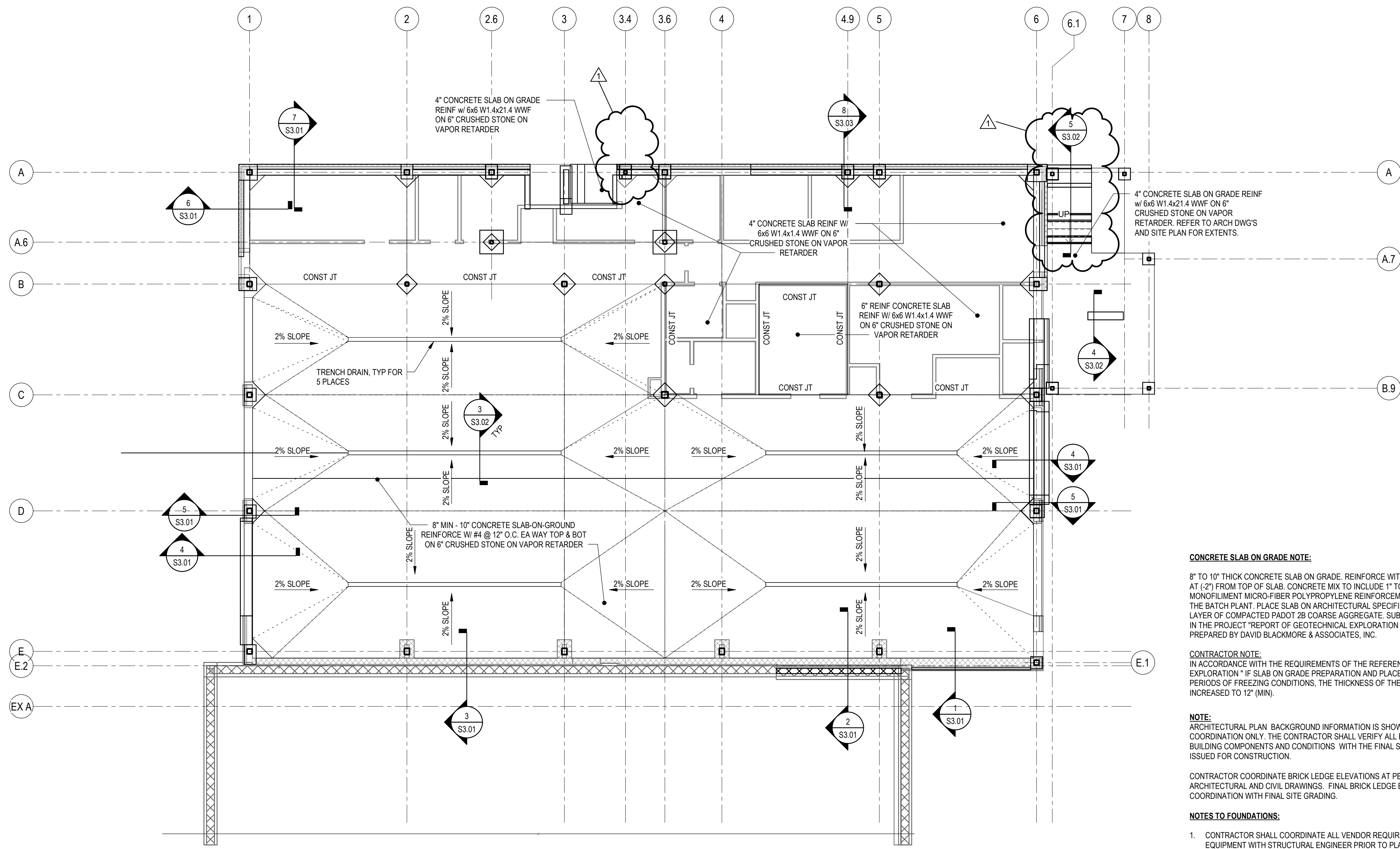
REVISIONS		DATE	DESCRIPTION
MARK	1	3/21/25	ADDENDUM 1

SHEET TITLE	
FOUNDATION	
JOB NO.	91242
DATE	03/06/2025
SHEET NO.	

S2.01

1 SLAB PLAN

1/8" = 1'-0"



CONCRETE SLAB ON GRADE NOTE:

8" TO 10" THICK CONCRETE SLAB ON GRADE. REINFORCE WITH #4 @ 12" O.C. EA WAY TOP & BOT AT (2") FROM TOP OF SLAB. CONCRETE MIX TO INCLUDE 1" TO 2 1/4" LONG SYNTHETIC MONOFILAMENT MICRO-FIBER POLYPROPYLENE REINFORCEMENT ADDED TO THE CONCRETE AT THE BATCH PLANT. PLACE SLAB ON ARCHITECTURAL SPECIFIED VAPOR BARRIER AND 6" (MIN) LAYER OF COMPACTED PADOT 2B COARSE AGGREGATE. SUBGRADE TO COMPACTION SPECIFIED IN THE PROJECT "REPORT OF GEOTECHNICAL EXPLORATION HARMONVILLE FIRE COMPANY" PREPARED BY DAVID BLACKMORE & ASSOCIATES, INC.

CONTRACTOR NOTE:

IN ACCORDANCE WITH THE REQUIREMENTS OF THE REFERENCED "REPORT OF GEOTECHNICAL EXPLORATION " IF SLAB ON GRADE PREPARATION AND PLACEMENT ARE TO BE DONE DURING PERIODS OF FREEZING CONDITIONS, THE THICKNESS OF THE STONE CUSHION IS TO BE INCREASED TO 12" (MIN).

NOTE:

ARCHITECTURAL PLAN. BACKGROUND INFORMATION IS SHOWN FOR REFERENCE AND COORDINATION ONLY. THE CONTRACTOR SHALL VERIFY ALL BACKGROUND DIMENSIONS, BUILDING COMPONENTS AND CONDITIONS WITH THE FINAL SET OF ARCHITECTURAL DRAWINGS ISSUED FOR CONSTRUCTION.

CONTRACTOR COORDINATE BRICK LEDGE ELEVATIONS AT PERIMETER OF BUILDING BETWEEN ARCHITECTURAL AND CIVIL DRAWINGS. FINAL BRICK LEDGE ELEVATIONS ARE TO BE SET IN COORDINATION WITH FINAL SITE GRADINGS.

NOTES TO FOUNDATIONS:

1. CONTRACTOR SHALL COORDINATE ALL VENDOR REQUIREMENTS FOR SPECIALIZED EQUIPMENT WITH STRUCTURAL ENGINEER PRIOR TO PLACING CONCRETE.
2. SEE SHEET S3.01 FOR GENERAL NOTES AND SHEET S3.01 FOR THE COLUMN SCHEDULE.
3. SEE DRAWINGS S3.03 AND S3.04 FOR TYPICAL SLAB, CONTROL JOINTS, AND CONSTRUCTION JOINT DETAILS.
4. PROVIDE (2) #4 x 4'-0" LONG REINFORCING BARS AT ALL RE-ENTRANT SLAB CORNERS. SEE DETAIL 6/S3.03.
5. CONTRACTOR SHALL SUBMIT LAY-OUT FOR SLAB ON GRADE CONSTRUCTION AND CONSTRUCTION JOINTS TO THE STRUCTURAL ENGINEER FOR APPROVAL PRIOR TO PLACING CONCRETE. SEE SLAB DETAILS ON S3.04.
6. SEE ARCH DWGS. FOR DEPRESSION SLAB LOCATIONS AND DEPTHS. SEE SHEET S3.02 FOR CONSTRUCTION DETAILS.

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SLAB PLAN

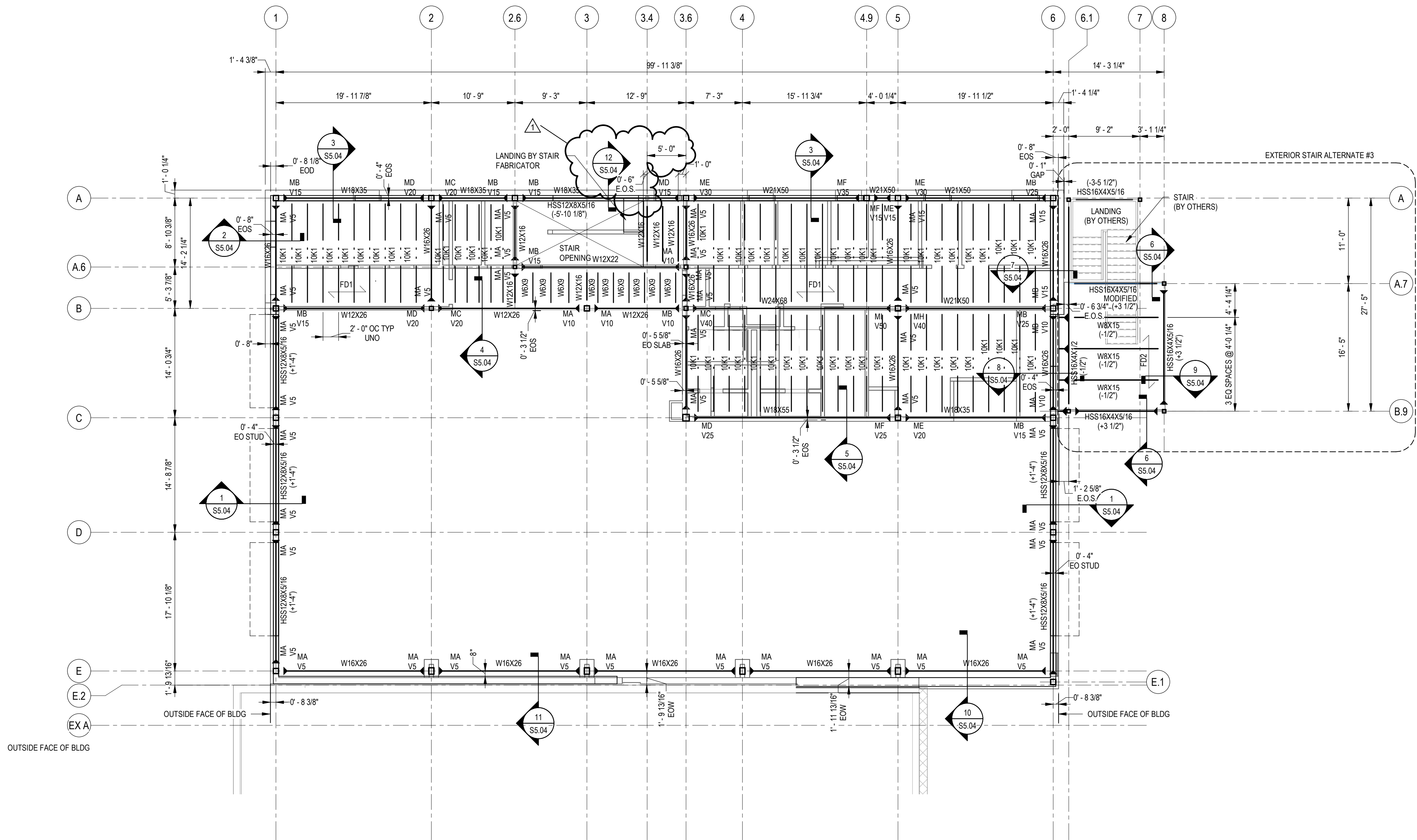
JOB NO. 91242
DATE 03/06/2025
SHEET NO.

S2.02

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

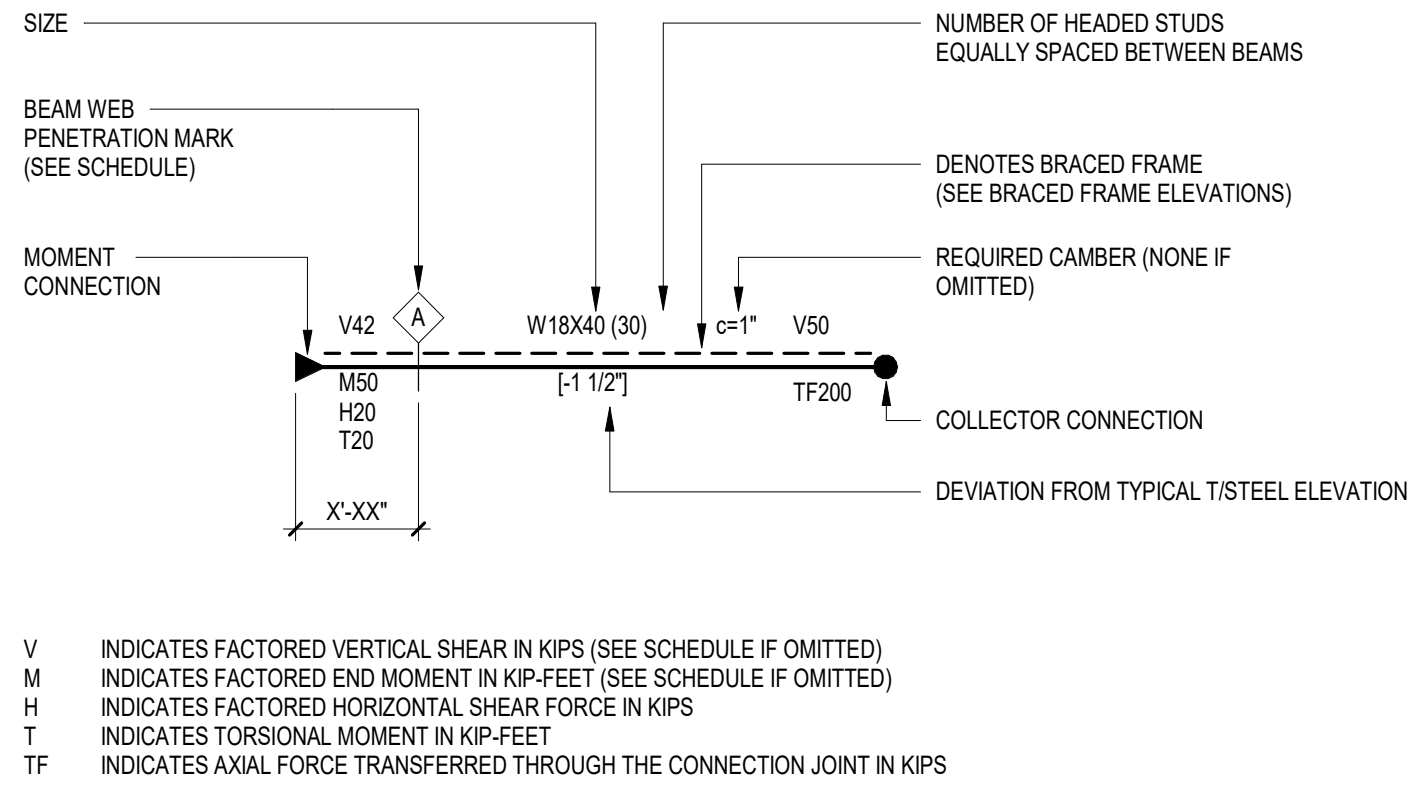
REVISIONS		DATE	DESCRIPTION
MARK	1	3/21/25	ADDENDUM 1

SHEET TITLE



- FLOOR FRAMING NOTES
- TOP OF SLAB ELEVATION IS 249'-6" UNLESS NOTED OTHERWISE.
 - TOP OF STEEL ELEVATION IS 249'-2 1/2" UNLESS NOTED OTHERWISE THUS; (+ OR -) ELEVATION IS REFERENCE FROM THIS STRUCTURAL STEEL ELEVATION.
 - FD1 - INDICATES SPAN DIRECTION OF 3 1/2" METAL DECK SLAB: 2 1/2" CONCRETE OVER 0.6" 26 GAUGE GALVANIZED METAL DECK. REINFORCE WITH 6x6-W2.9W2.9 WELDED WIRE REINFORCEMENT.
 - FD2 - INDICATES SPAN DIRECTION OF 4" METAL DECK SLAB: 2 1/2" CONCRETE OVER 1.5" C20 GA GALVANIZED METAL DECK. REINFORCE WITH 6x6-W2.9W2.9 WWF.
 - BEAMS ARE EQUALLY SPACED BETWEEN COLUMN LINES UNLESS NOTED OTHERWISE.
 - REFER TO SS.02 FOR FRAMING AROUND OPENINGS IN SLABS.
 - FOR ADDITIONAL INFORMATION REFER TO THE FOLLOWING DRAWINGS:
 - REFER TO SCHEDULES ON EACH FRAMING PLAN SHEET FOR SHEAR AND MOMENT CONNECTION REACTIONS.
- GENERAL NOTES
- S0 SERIES DRAWINGS
- FOUNDATION SCHEDULES AND DETAILS S3 SERIES DRAWINGS
- FRAMING SCHEDULES AND DETAILS S5 SERIES DRAWINGS
- MASONRY SCHEDULES AND DETAILS S6 SERIES DRAWINGS
- SYMBOLS LEGEND
- INDICATES BEAM TO COLUMN MOMENT CONNECTION TO BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER WORKING FOR THE STEEL FABRICATOR. COORDINATE MOMENT CONNECTION CAPACITY WITH BEAM CONNECTION SCHEDULE AND DETAILS ON SS.11.
- INDICATES DECK SPAN DIRECTION
- COVERAGE AREA
- SPAN DIRECTION

STEEL BEAM LEGEND



STEEL CONNECTION SCHEDULE BEAM END REACTION VALUES		
BEAM SIZE	VERTICAL R/N (kips)	MN. ROWS OF BOLTS
W8	12.0	2
W10	15.0	2
W12	20.0	2
W14	20.0	3
W16	30.0	4
W18	40.0	4
W21	50.0	5
W24	60.0	6

MOMENT CONNECTION SCHEDULE REACTION VALUES	
ID	MOMENT (ft-kip)
MA	20
MB	40
MC	60
MD	80
ME	100
MF	120
MG	160
MH	190
MI	220
MJ	260

- NOTES
- VERTICAL AND MOMENT REACTIONS ARE INDICATED AS "FACTORED LEVEL" VALUES (ULT).
 - SELECTION, COMPLETION, OR DESIGN OF CONNECTIONS AND DETAILS SHALL BE PERFORMED USING THE ASD METHOD OF DESIGN.
 - BOLTED CONNECTIONS SHALL BE MADE WITH 3/4" DIAMETER BOLTS, MINIMUM.
 - UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE PLANS, BEAM END CONNECTIONS SHALL MEET THE LOADING AND CONNECTION REQUIREMENTS INDICATED IN THIS SCHEDULE.

Project Status ISSUED FOR ADDENDUM 1 03/21/2025

SECOND FLOOR
FRAMING PLAN

JOB NO. 91242
DATE 03/06/2025
SHEET NO.

S2.03

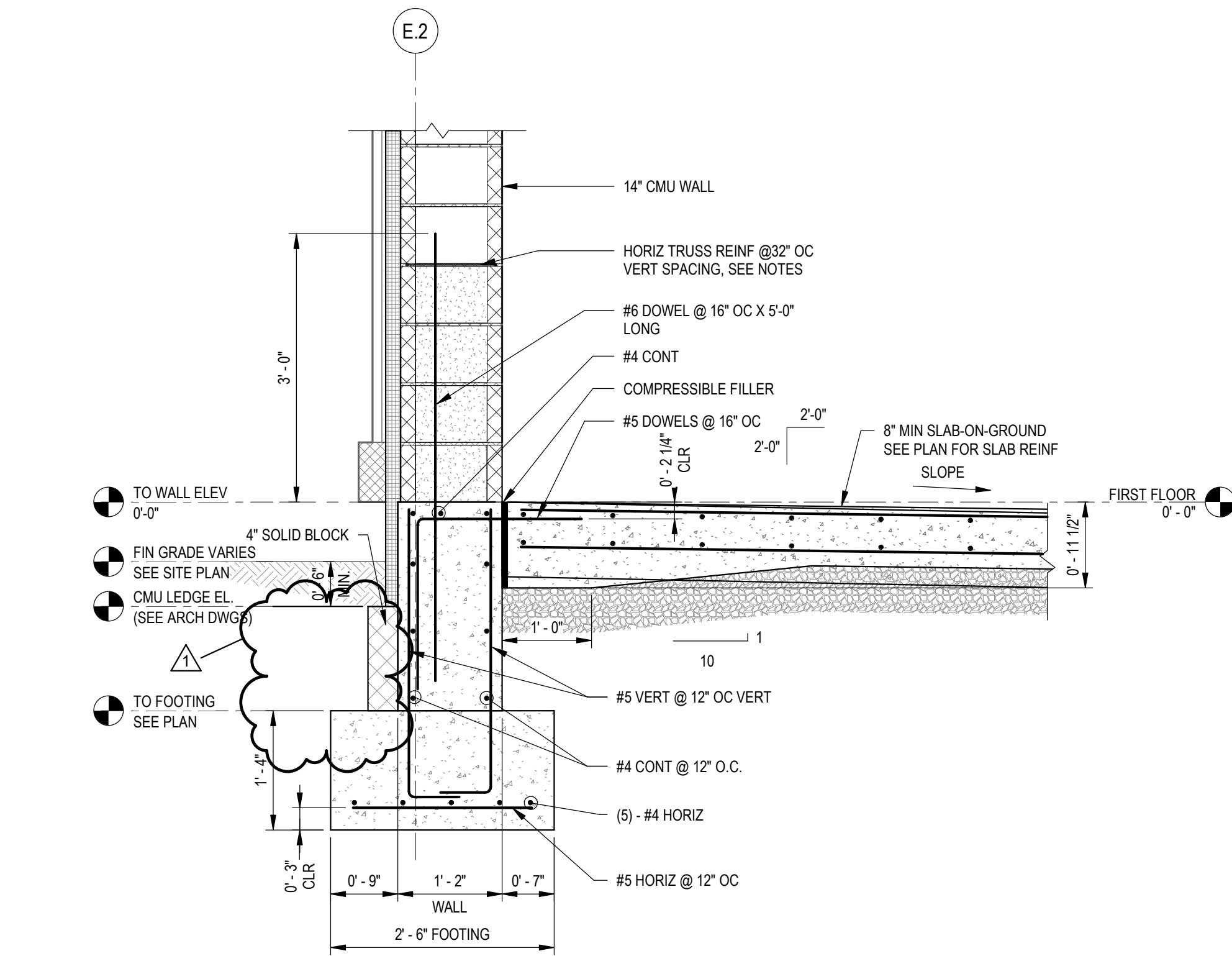
NEW FIRE STATION
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THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

REVISIONS	
MARK	DESCRIPTION
1	ADDENDUM 1

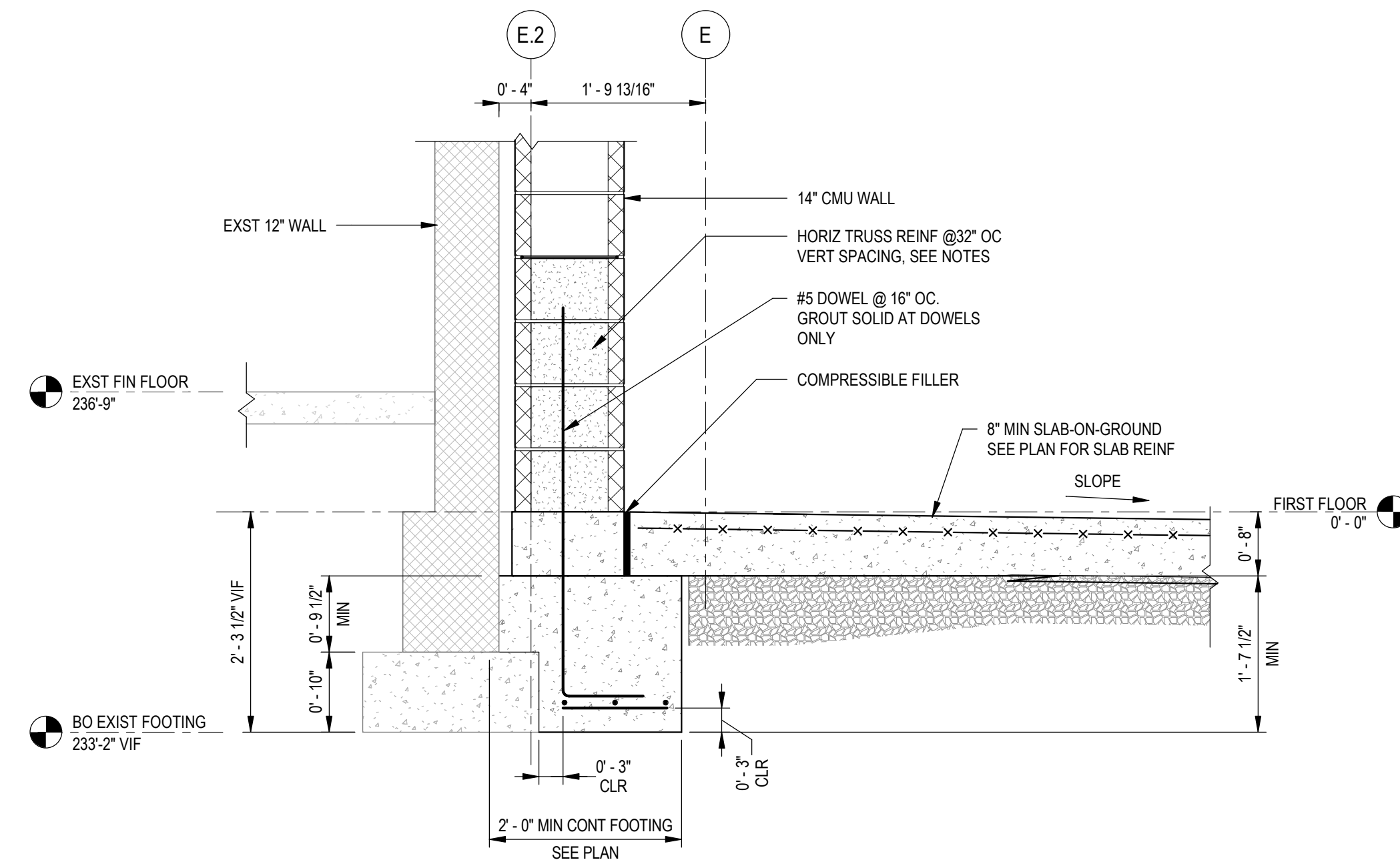
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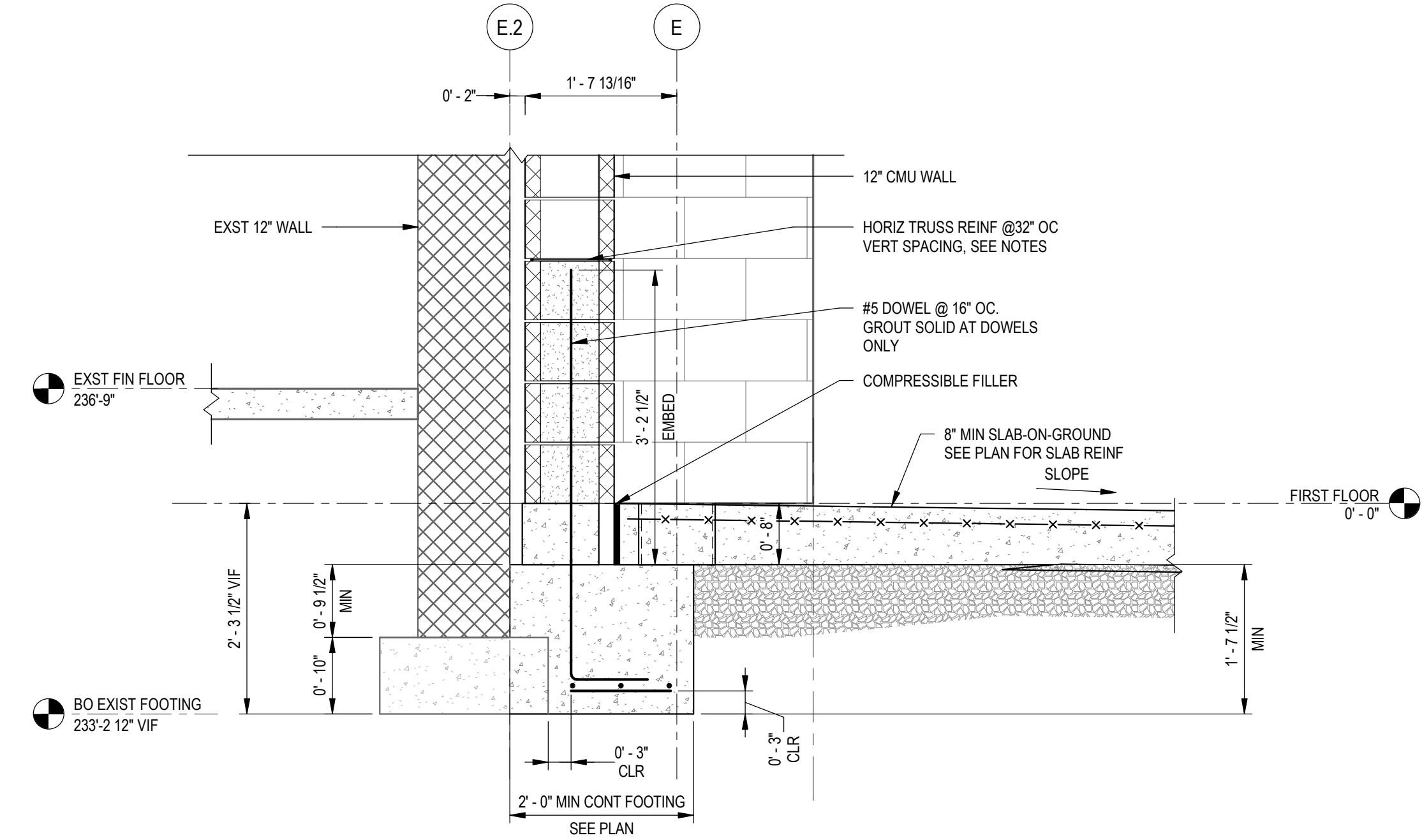
KCBA Architects
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kcb-architects.com



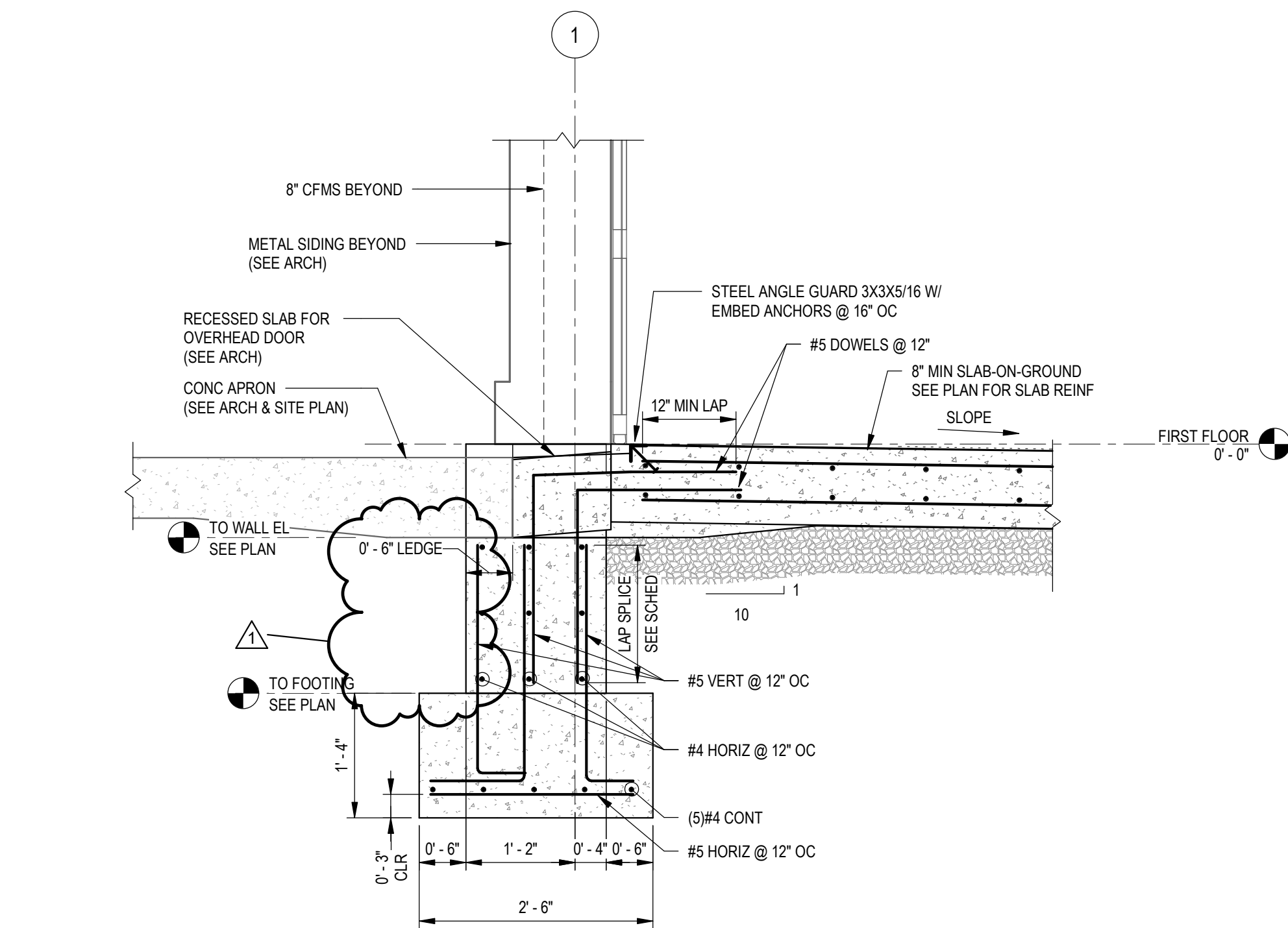
1 FOUNDATION SECTION



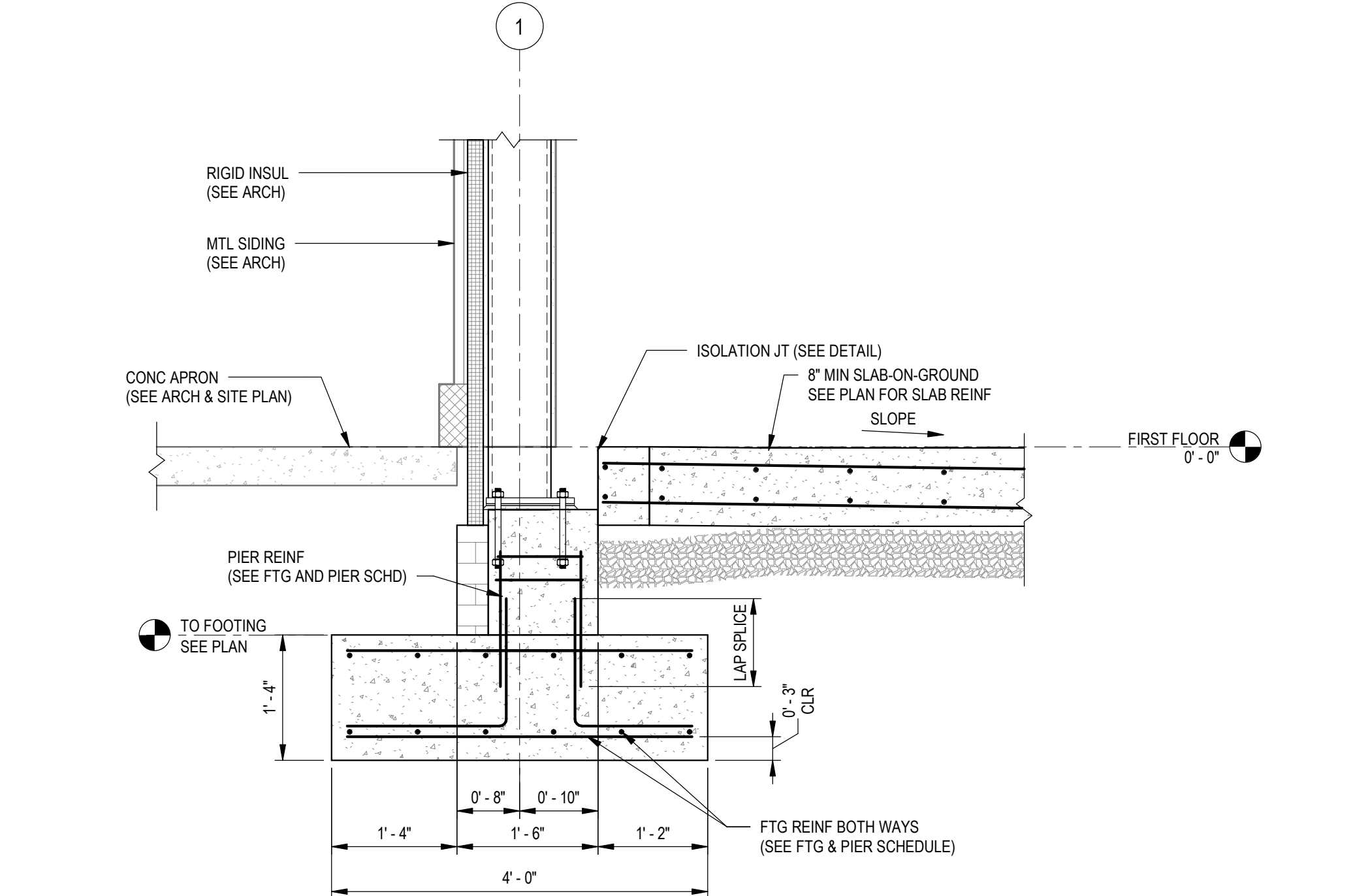
2 FOUNDATION TO EXISTING FOUNDATION SECTION



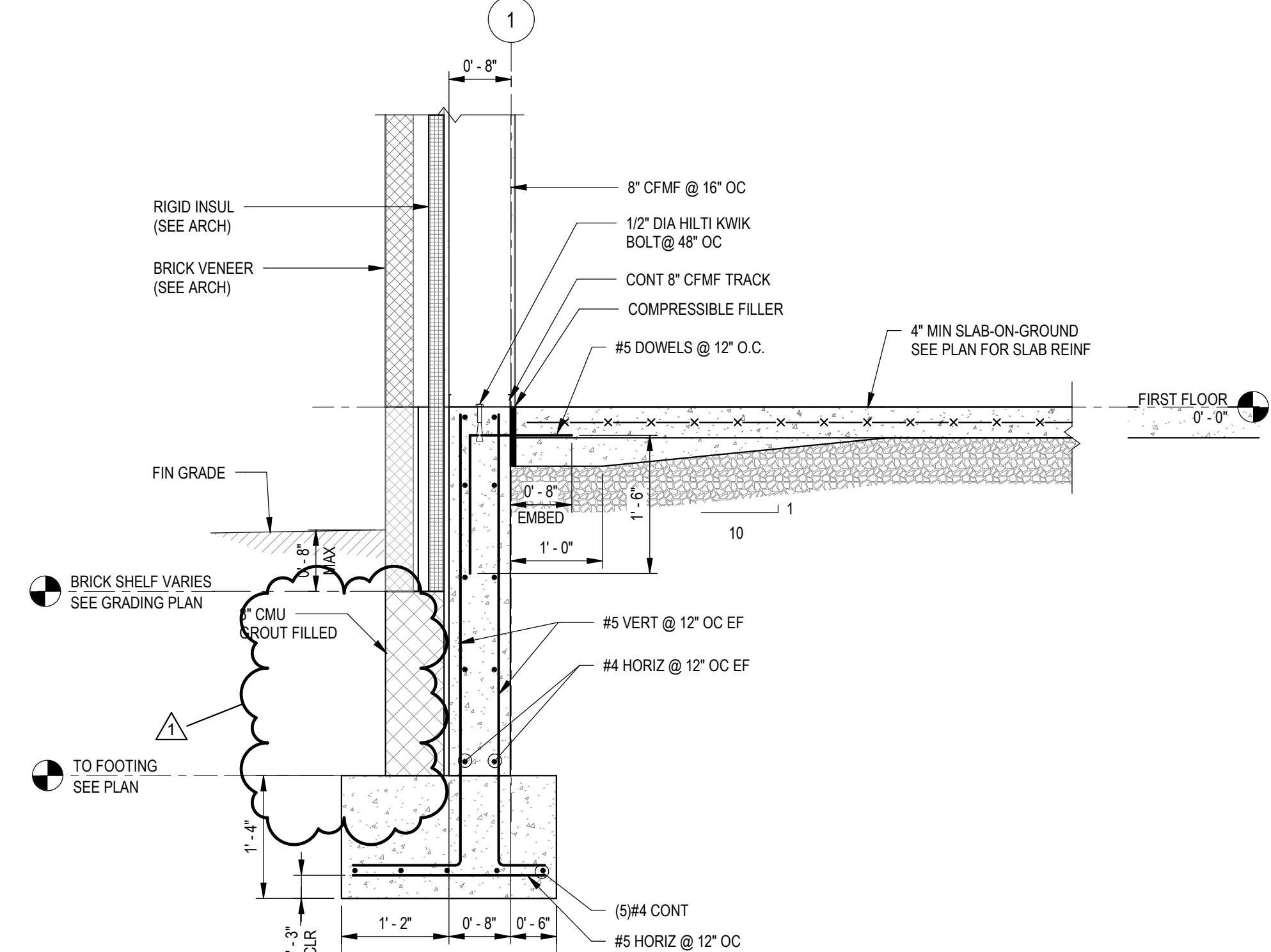
3 FOUNDATION TO EXISTING FOUNDATION SECTION



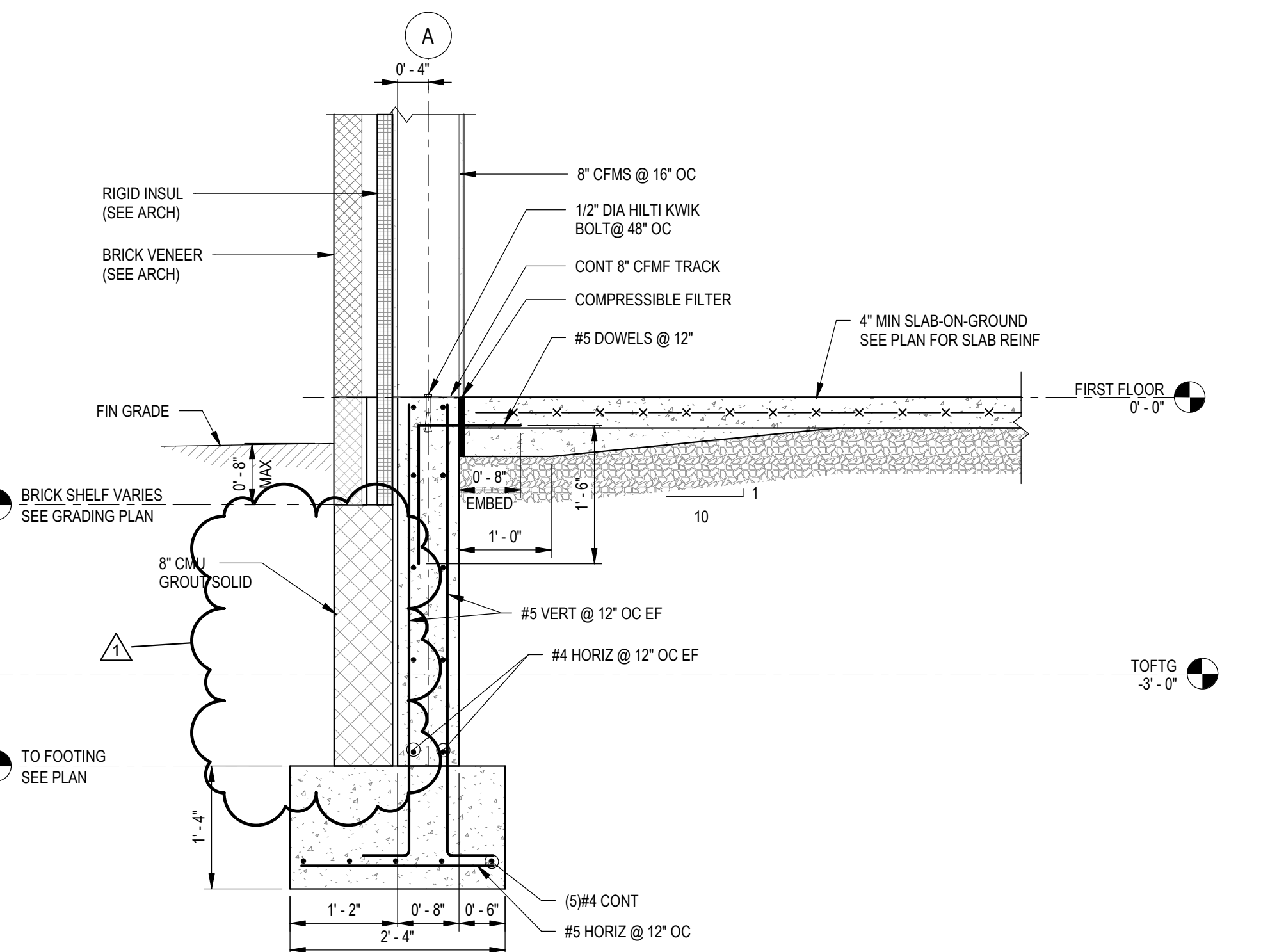
4 FOUNDATION SECTION @ OH DOOR



5 PIER SECTION @ OH DOOR WALL



6 FOUNDATION SECTION



7 FOUNDATION SECTION

Project Status ISSUED FOR ADDENDUM 1 03/21/2025

SECTIONS AND DETAILS

JOB NO. 91242
DATE 03/06/2025
SHEET NO.

S3.01

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

MARK	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

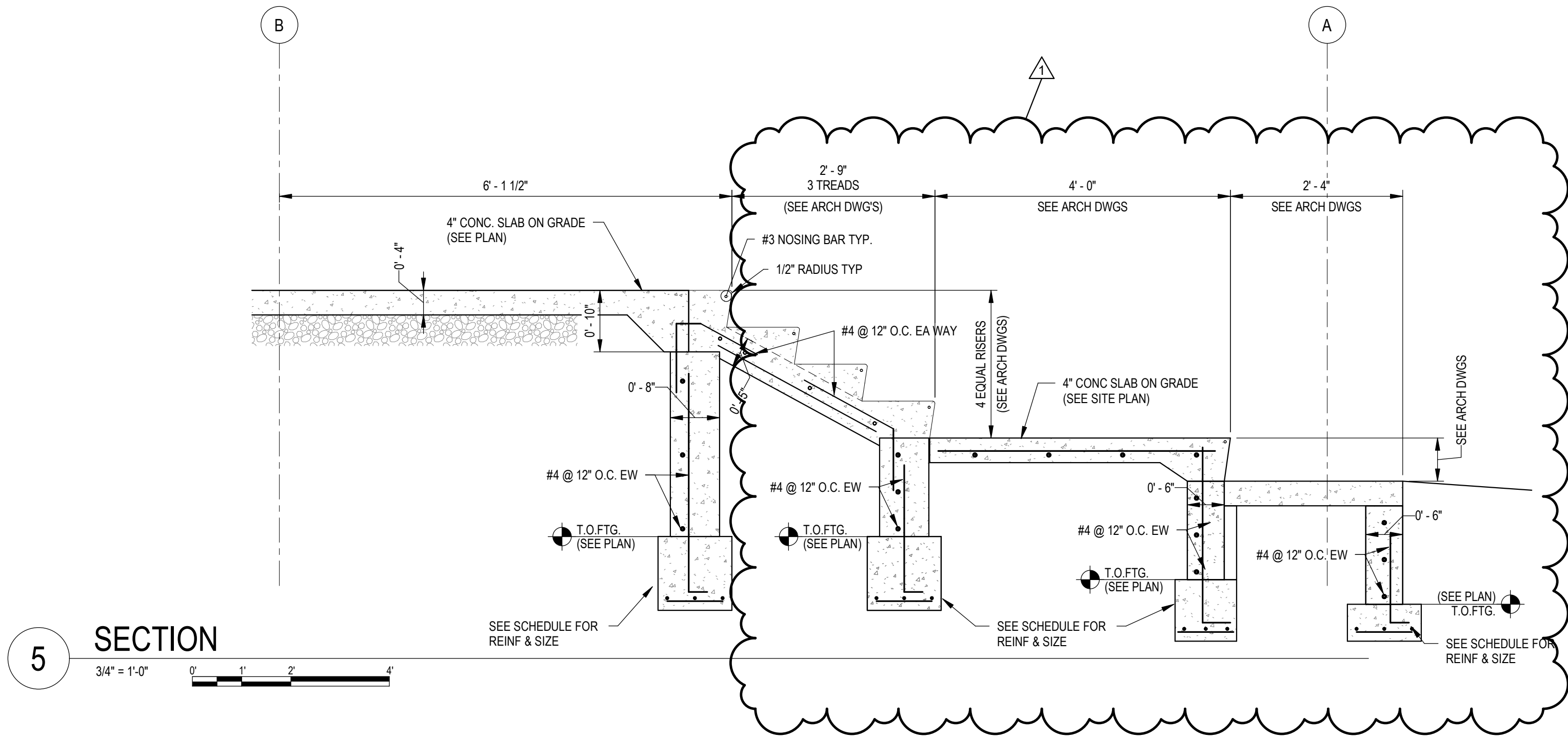
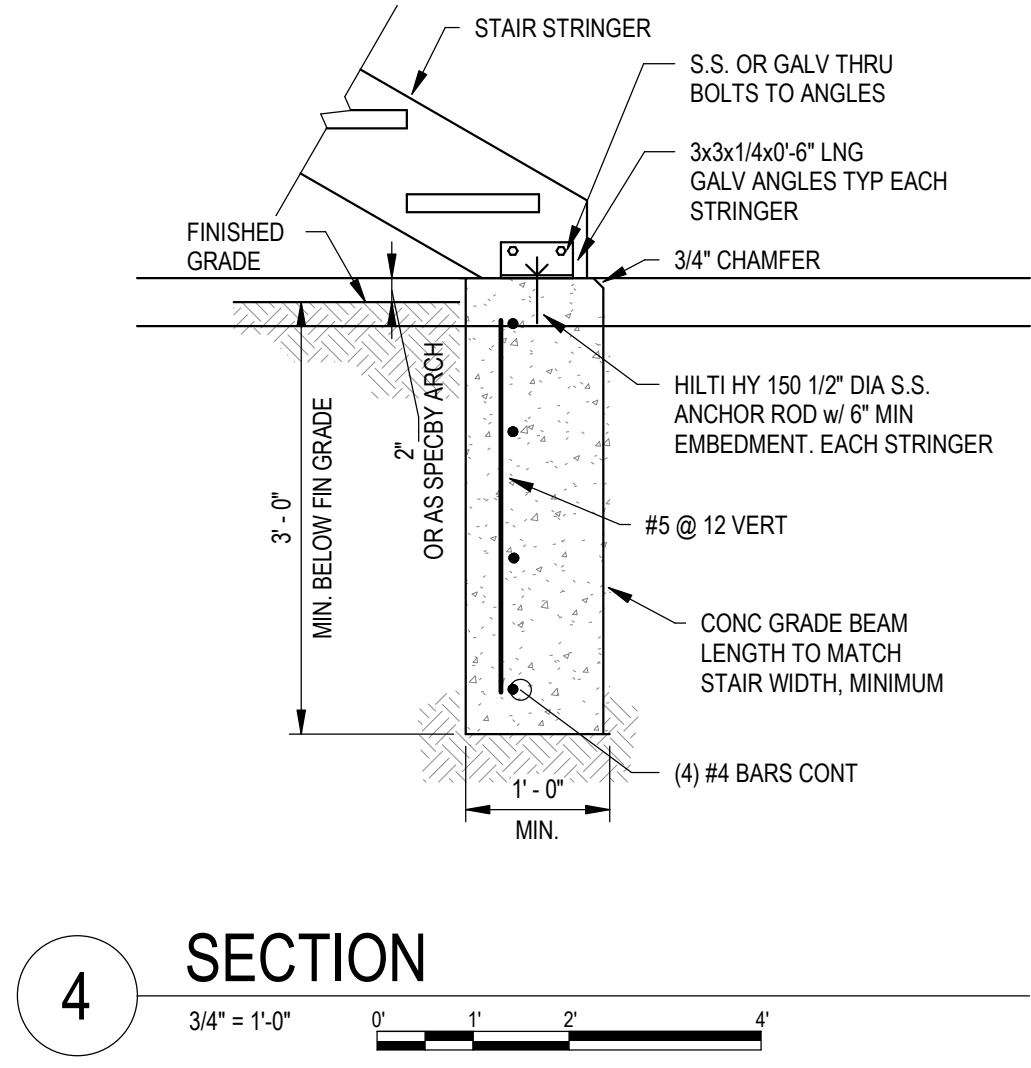
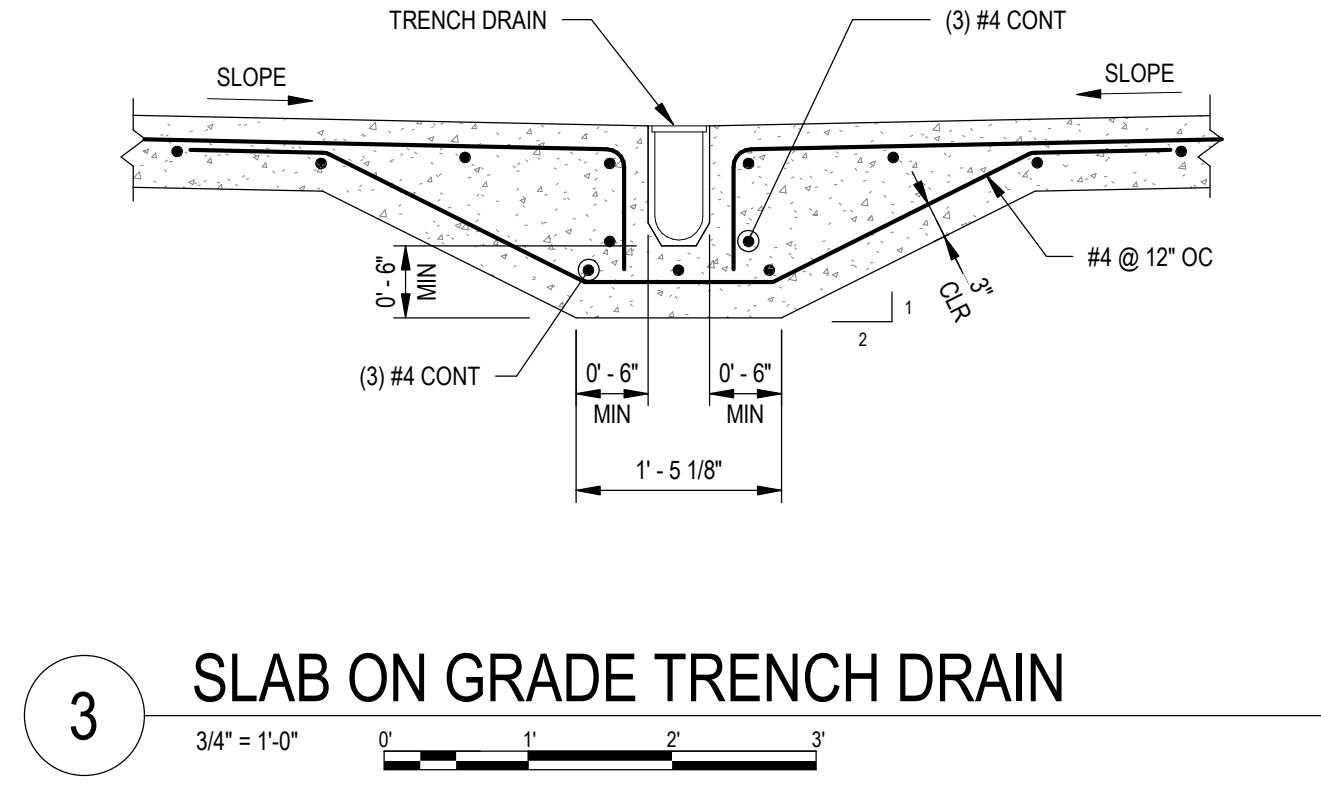
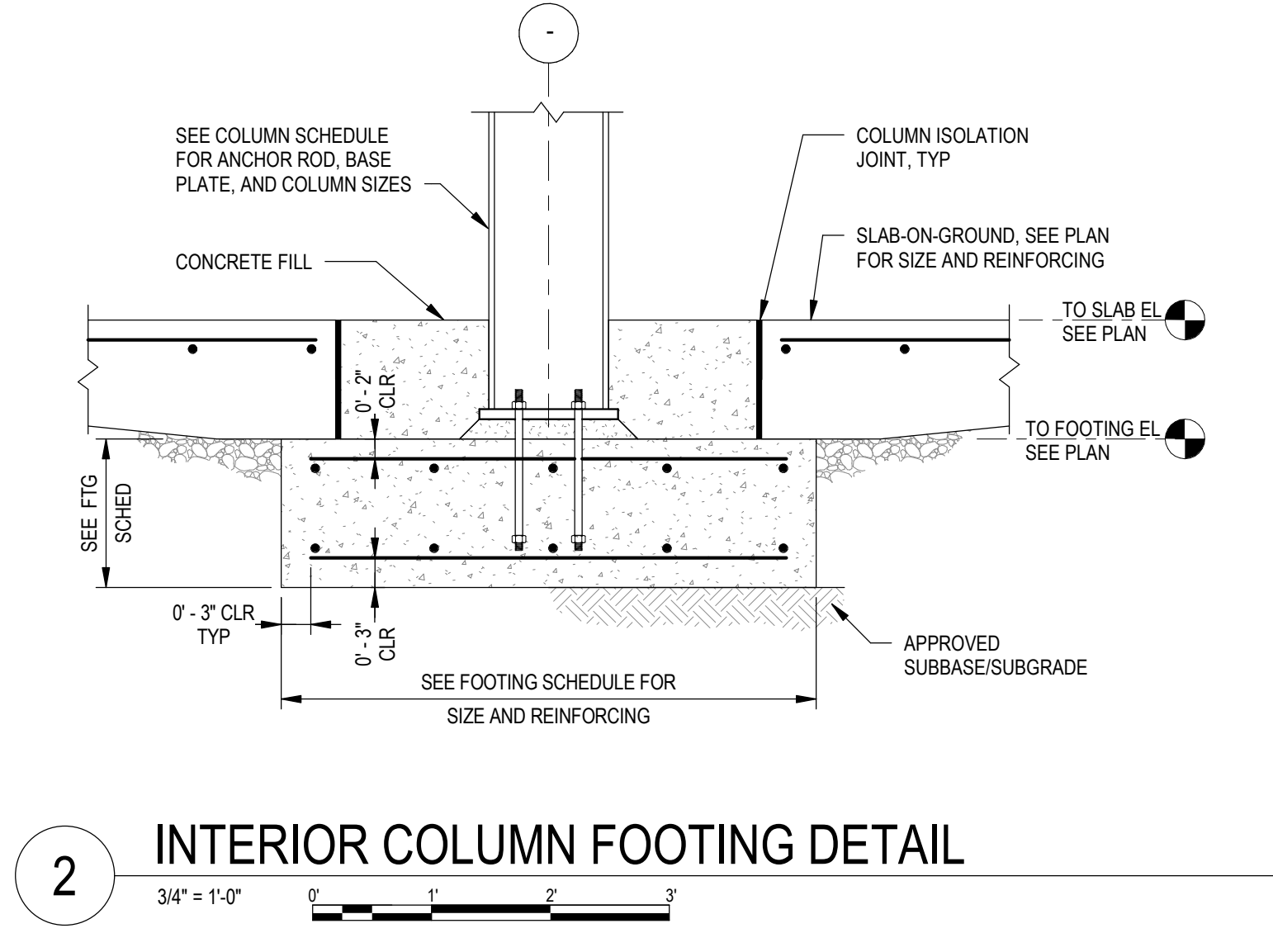
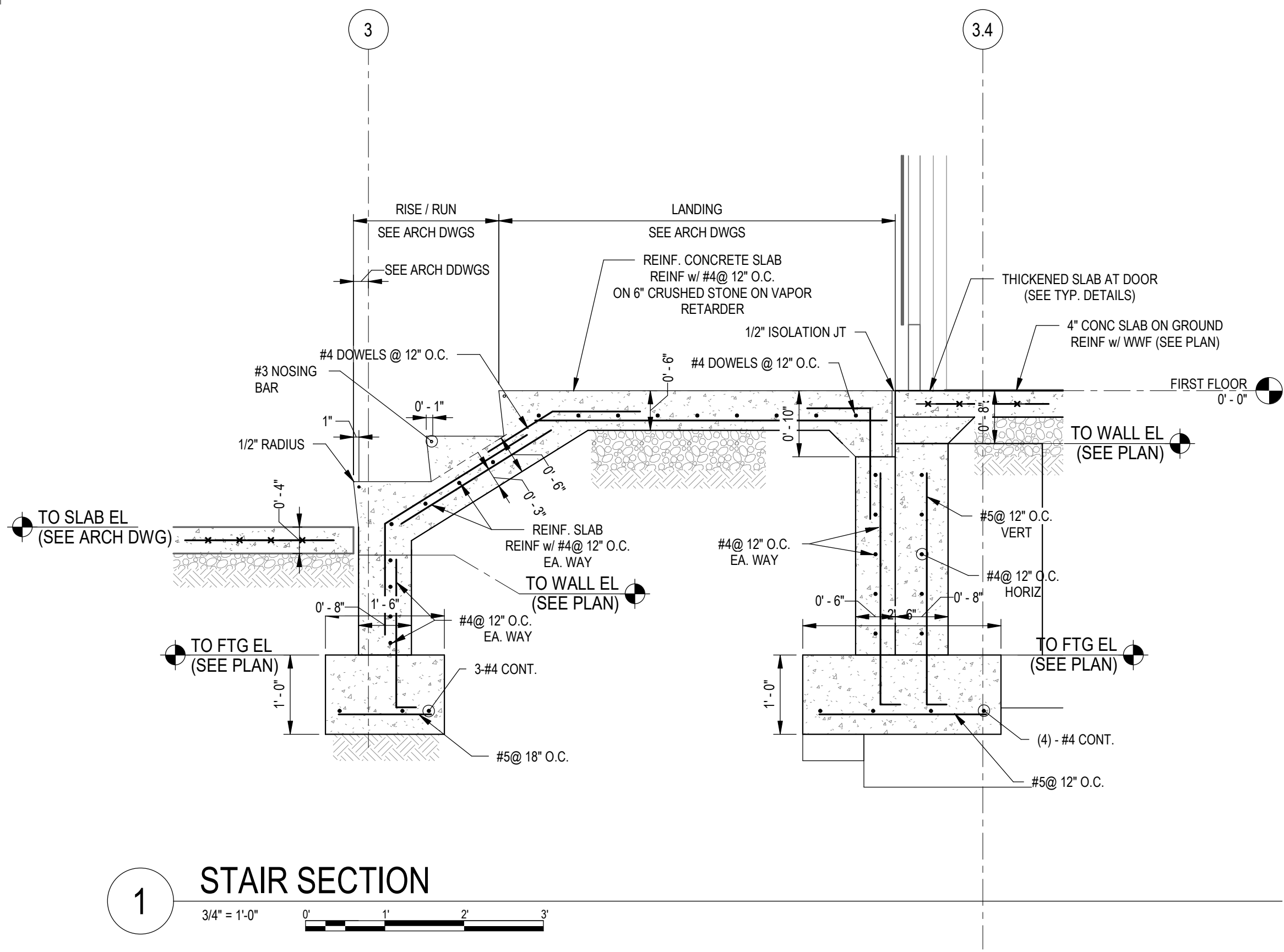
Autodesk Docs/09/1242.000 - Harmonville Fire Company - Plymouth
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Project Status ISSUED FOR ADDENDUM 1 03/21/2025

SECTIONS AND DETAILS

JOB NO. 91242
DATE 03/06/2025
SHEET NO.

S3.02

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

MARK	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

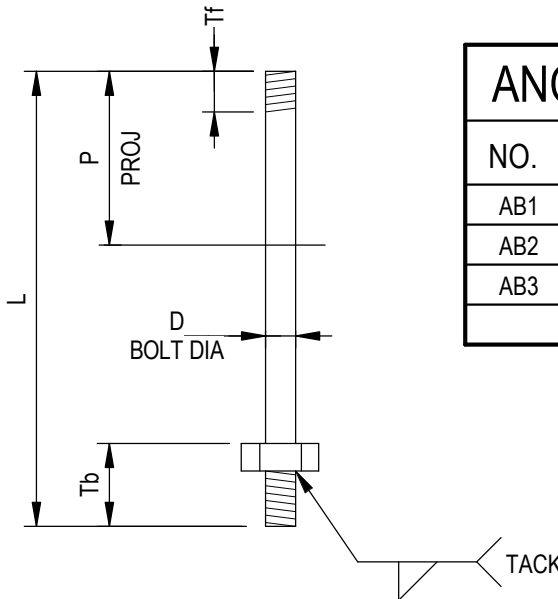
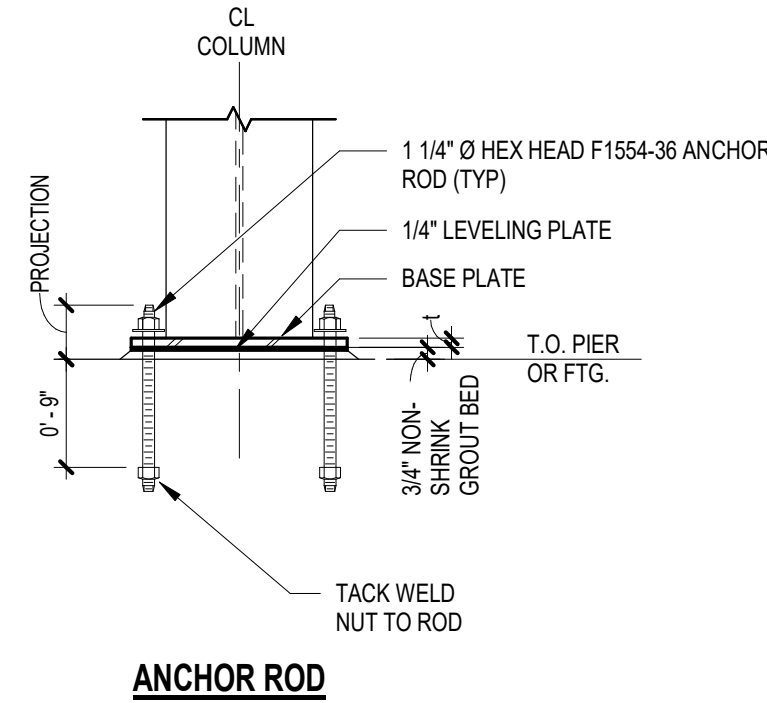
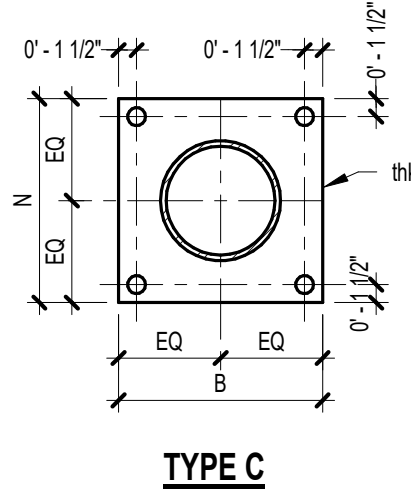
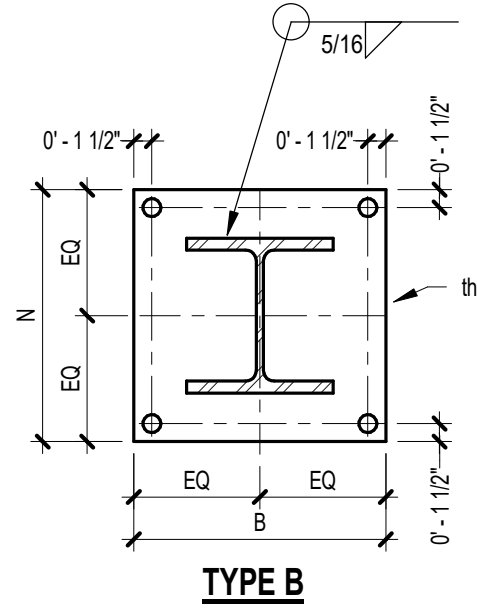
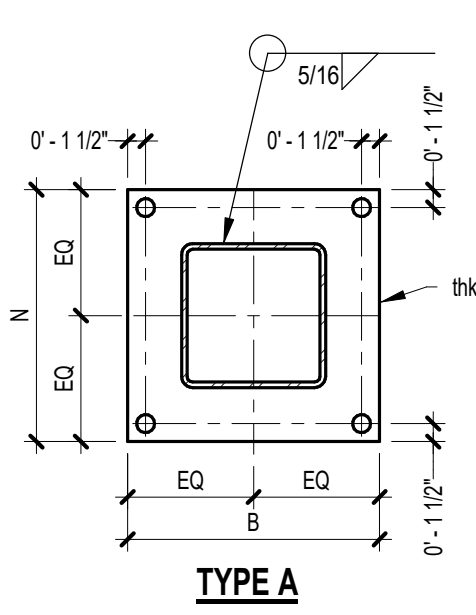
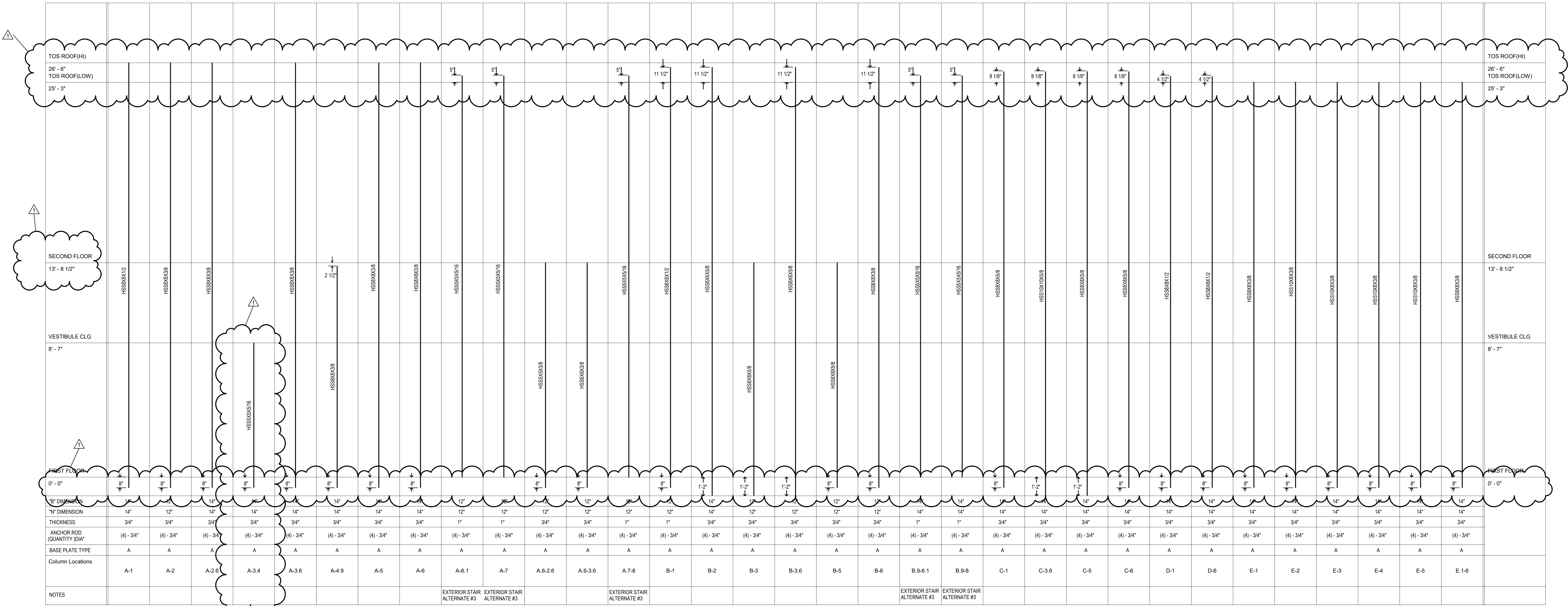
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ANCHOR BOLT SCHEDULE					
NO.	D	L	P	Tt	Tb
AB1	3/4"	18"	4"	-	2"
AB2	3/4"	18"	4"	-	2"
AB3	1"	24"	4"	-	2"

- NOTES:
- SEE COLUMN SCHEDULE AND PLAN FOR BASE PLATE SIZE, ORIENTATION AND THICKNESS
 - BASE PLATE THICKNESS SHOWN ON SCHEDULE IS A MINIMUM. DIMENSION AFTER ALL MILLING IS COMPLETED
 - COLUMN STABILITY DURING ERECTION IS RESPONSIBILITY OF CONTRACTOR

- NOTES:
- PROVIDE WITH ANCHOR BOLTS HEAVY HEX NUTS WITH FLAT WASHERS (5/16" MIN THICKNESS).
 - COORDINATE ANCHOR BOLT MATERIAL WITH BUILDING SUPPLIER
 - ANCHOR BOLTS SHALL BE ASTM F1554, GRADE 36, U.N.O.

033000-001 - ANCHOR BOLT SCHEDULE

2 ANCHOR BOLT SCHEUDLE

1 BASE PLATE AND ANCHOR ROD DETAILS

Project Status ISSUED FOR ADDENDUM 1 03/21/2025

COLUMN SCHEDULE

JOB NO. 91242
DATE 03/06/2025
SHEET NO.

S5.01

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
MONTGOMERY COUNTY, PA

TOWNSHIP OF PLYMOUTH



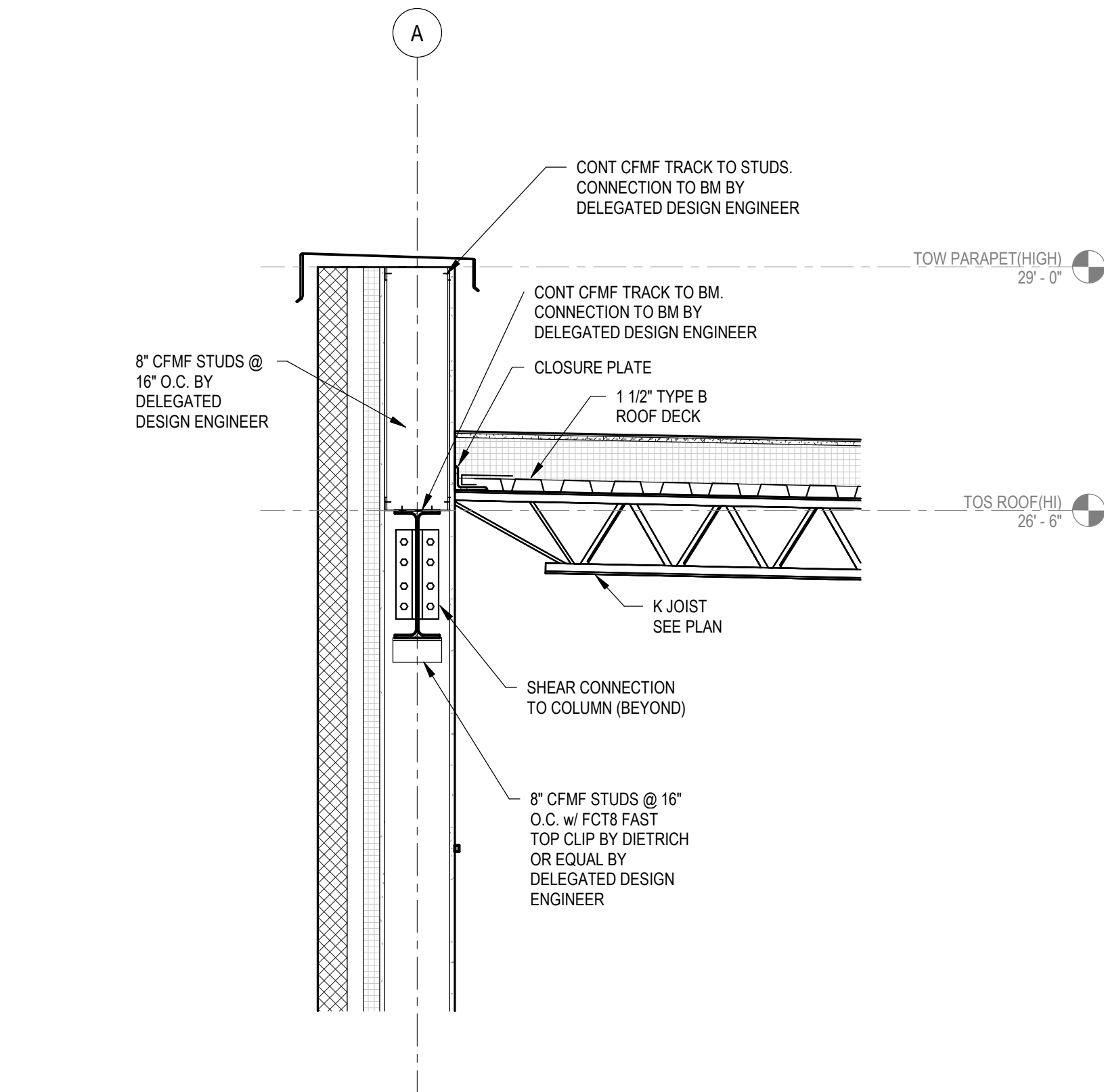
KCB Architects
Eight East Broad Street
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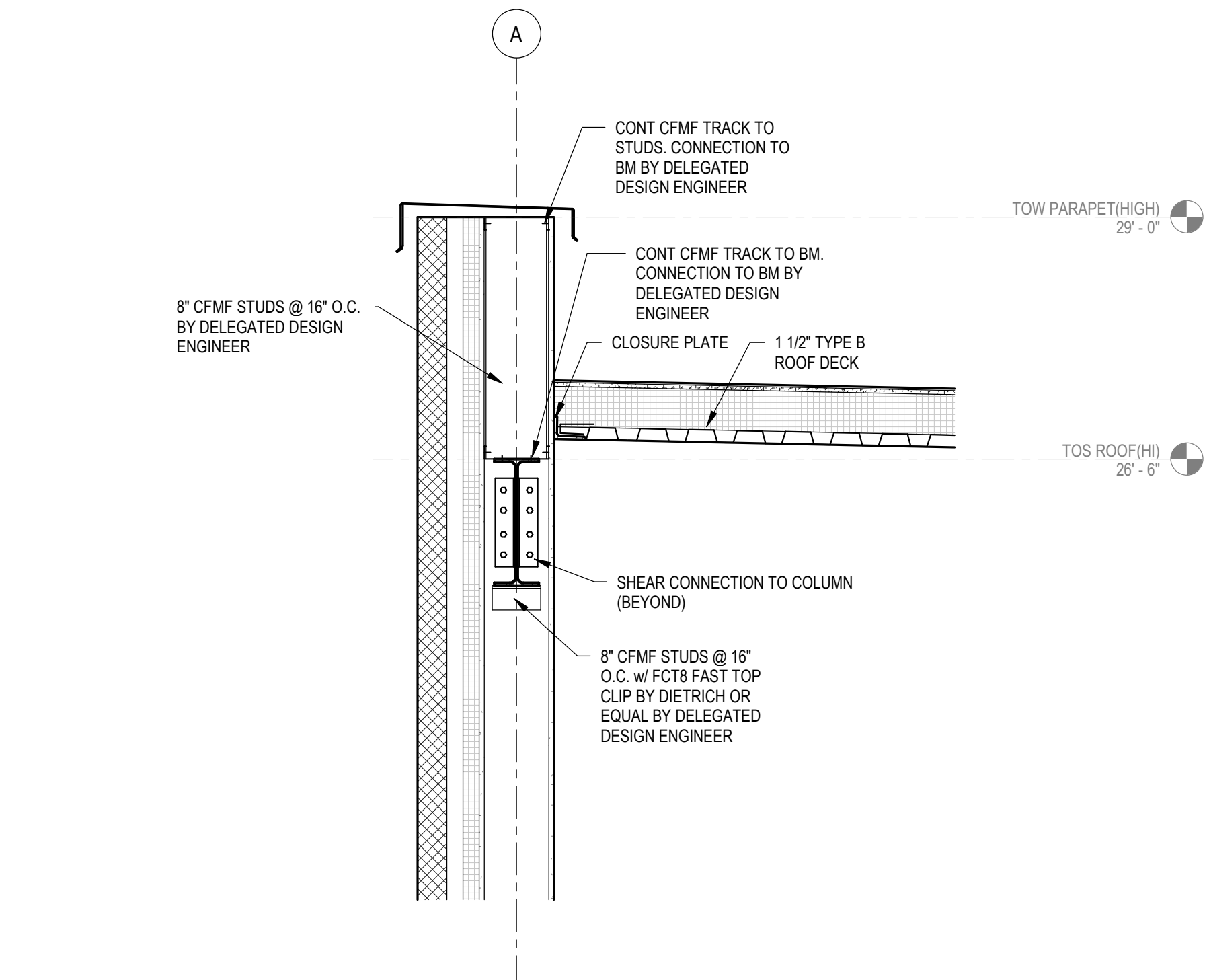
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Eight East Broad Street
Plymouth, PA 19402-2407
P 215.388.5806
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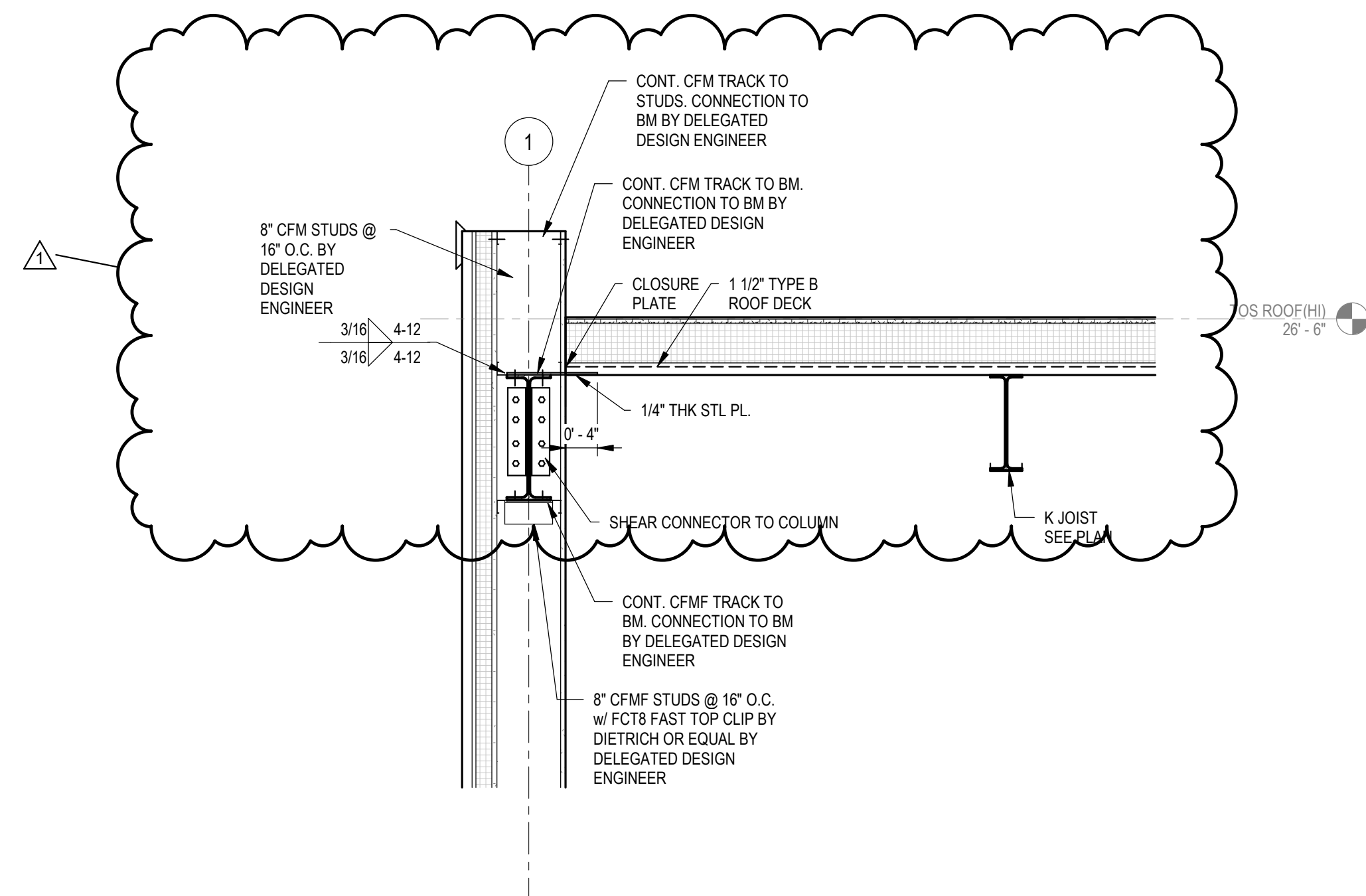
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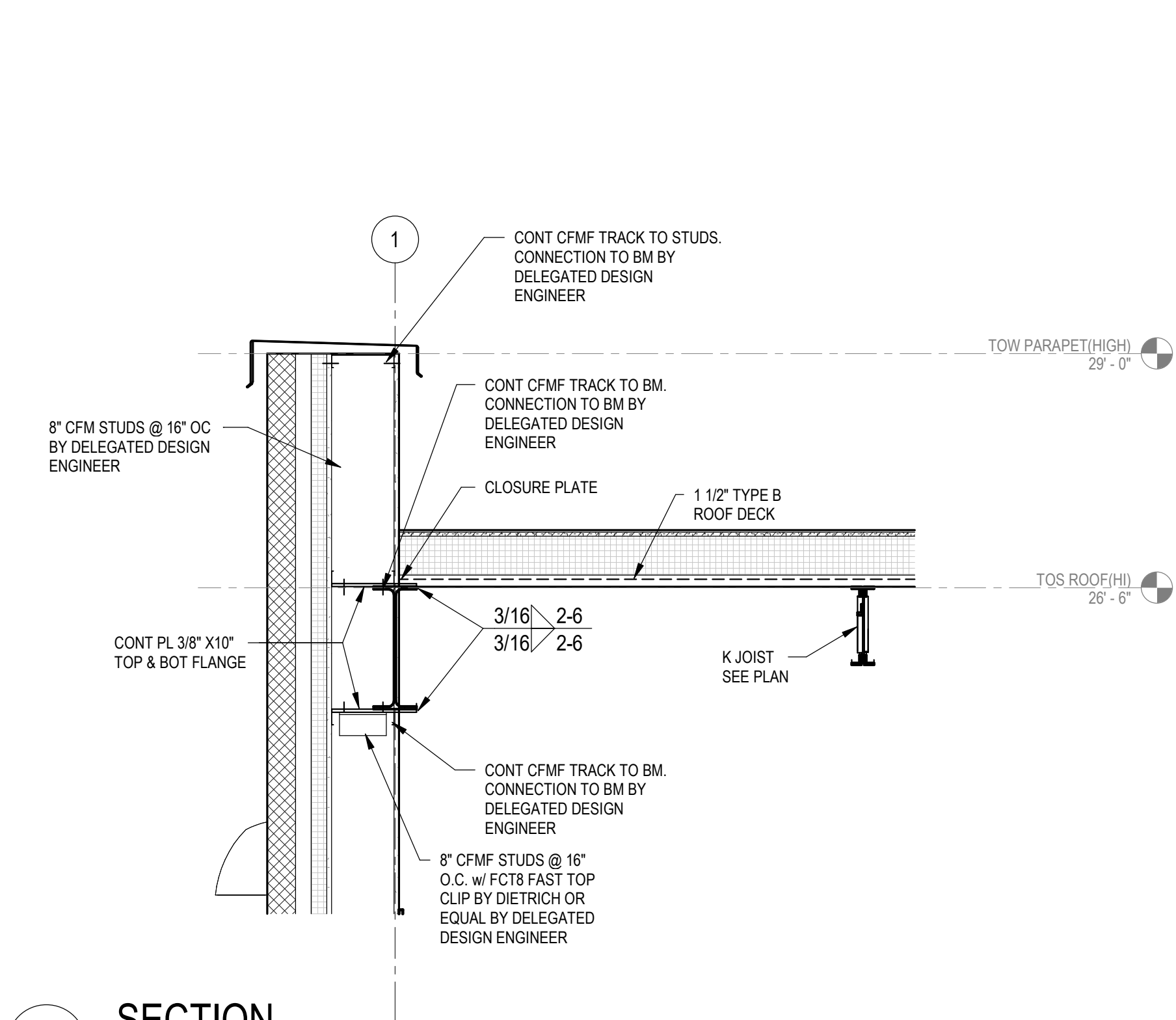
1 SECTION
3/4" = 1'-0"



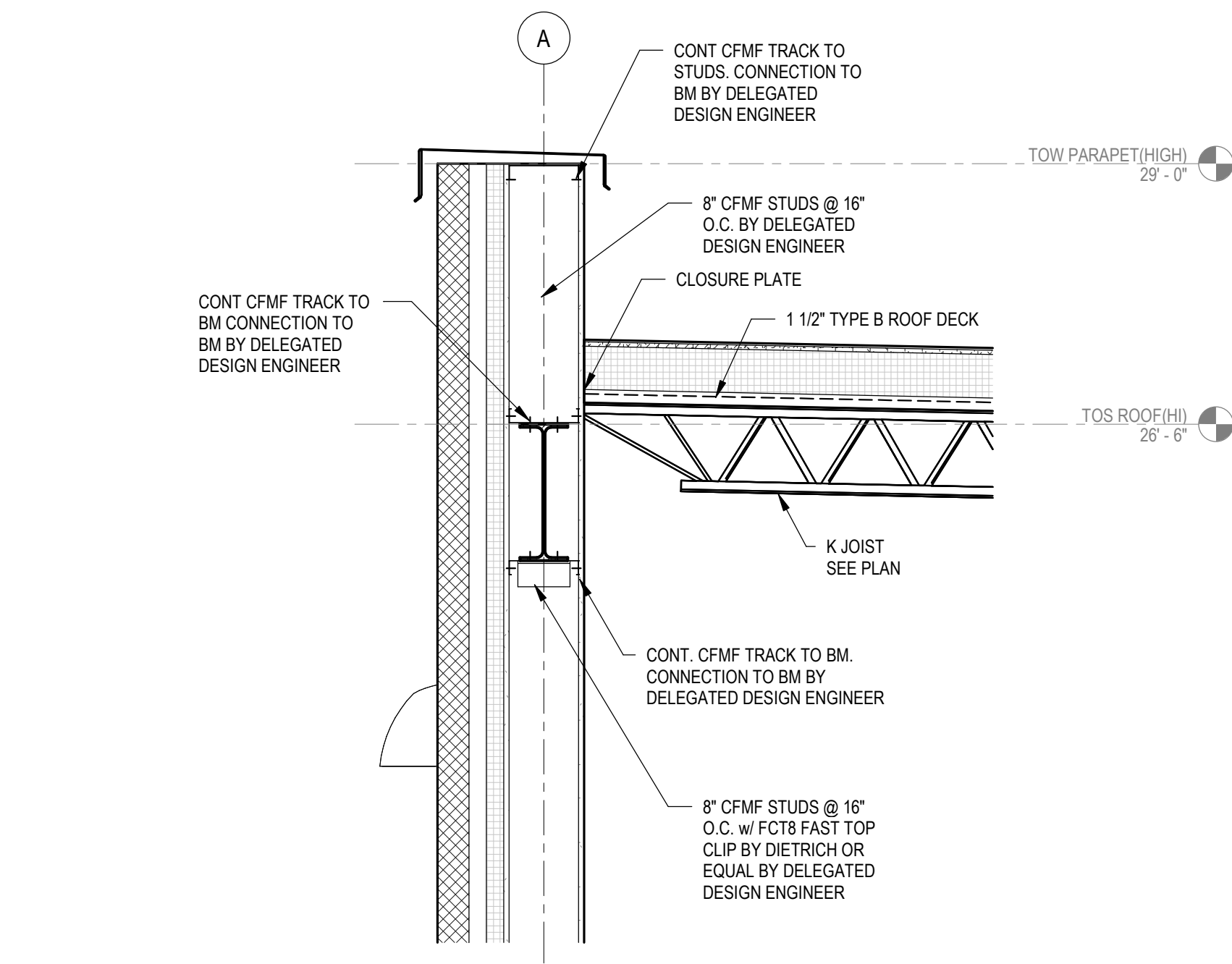
2 SECTION
3/4" = 1'-0"



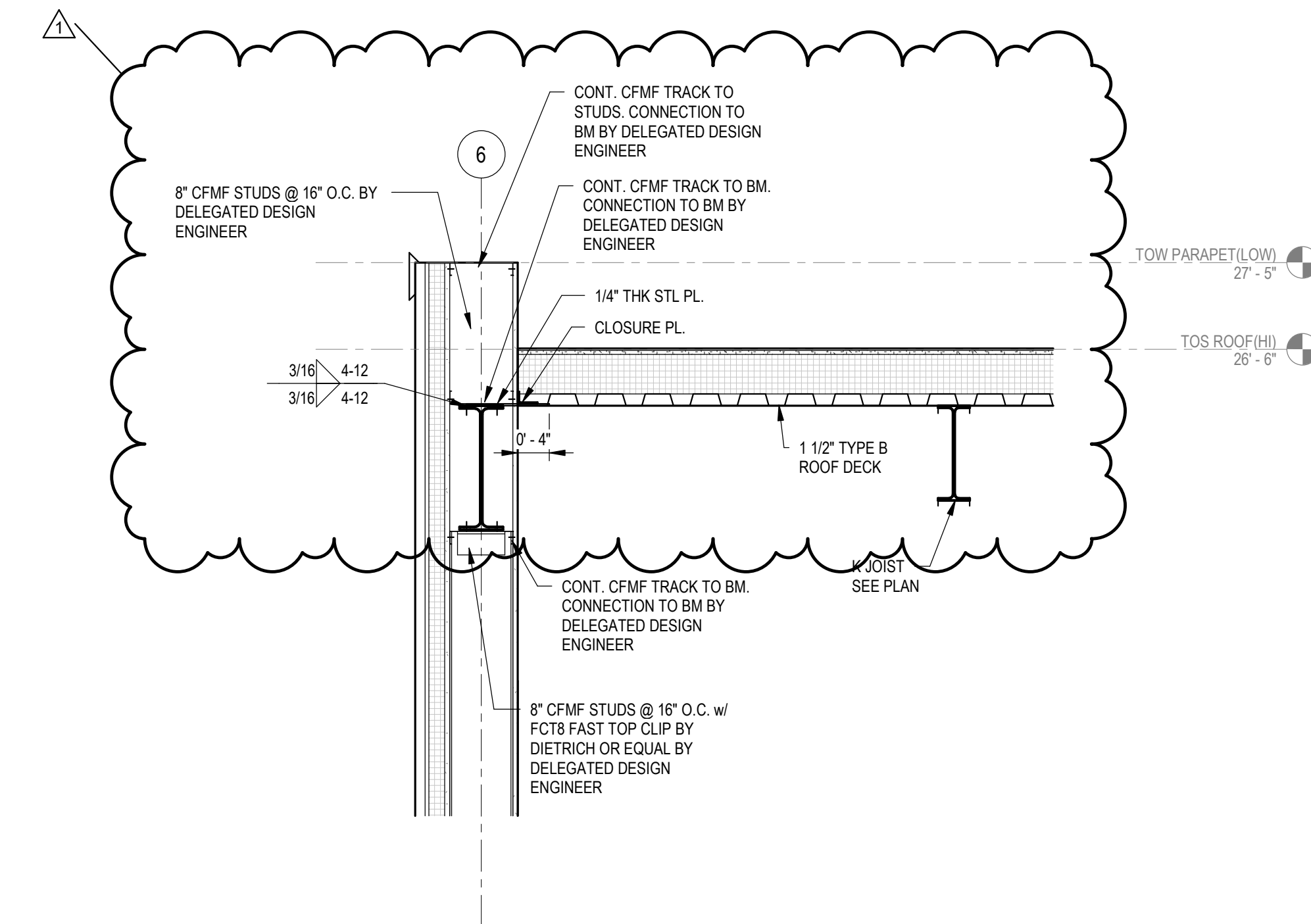
3 SECTION
3/4" = 1'-0"



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



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



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

Project Status ISSUED FOR ADDENDUM 1 03/21/2025

SECTIONS AND DETAILS

JOB NO. 91242
DATE 03/06/2025
SHEET NO.

S5.05

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

MARK	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

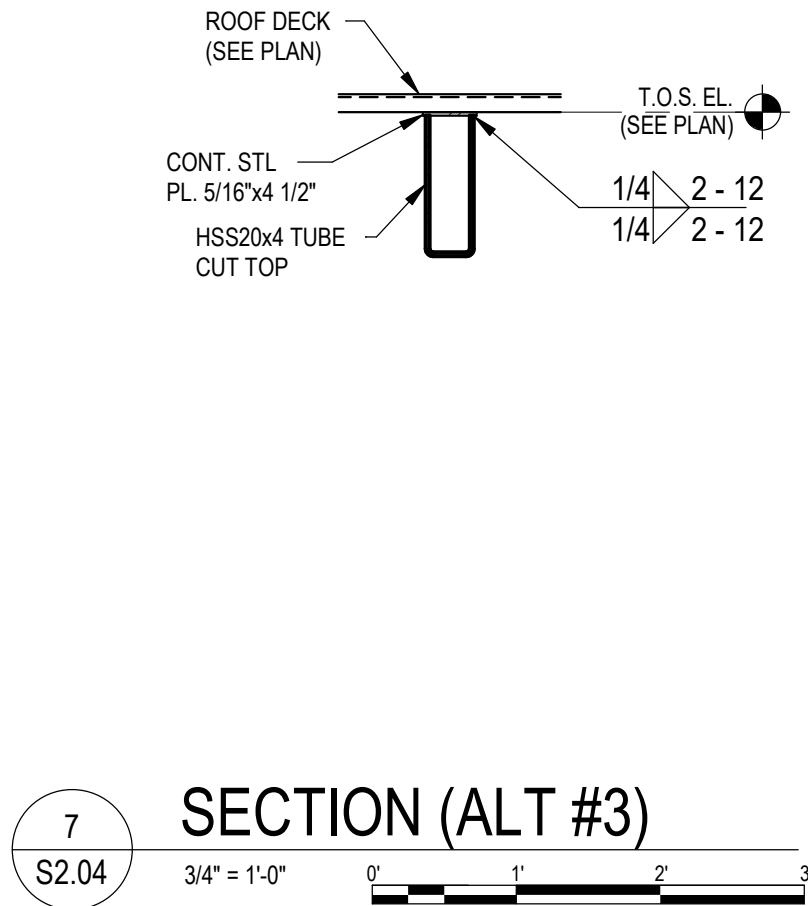
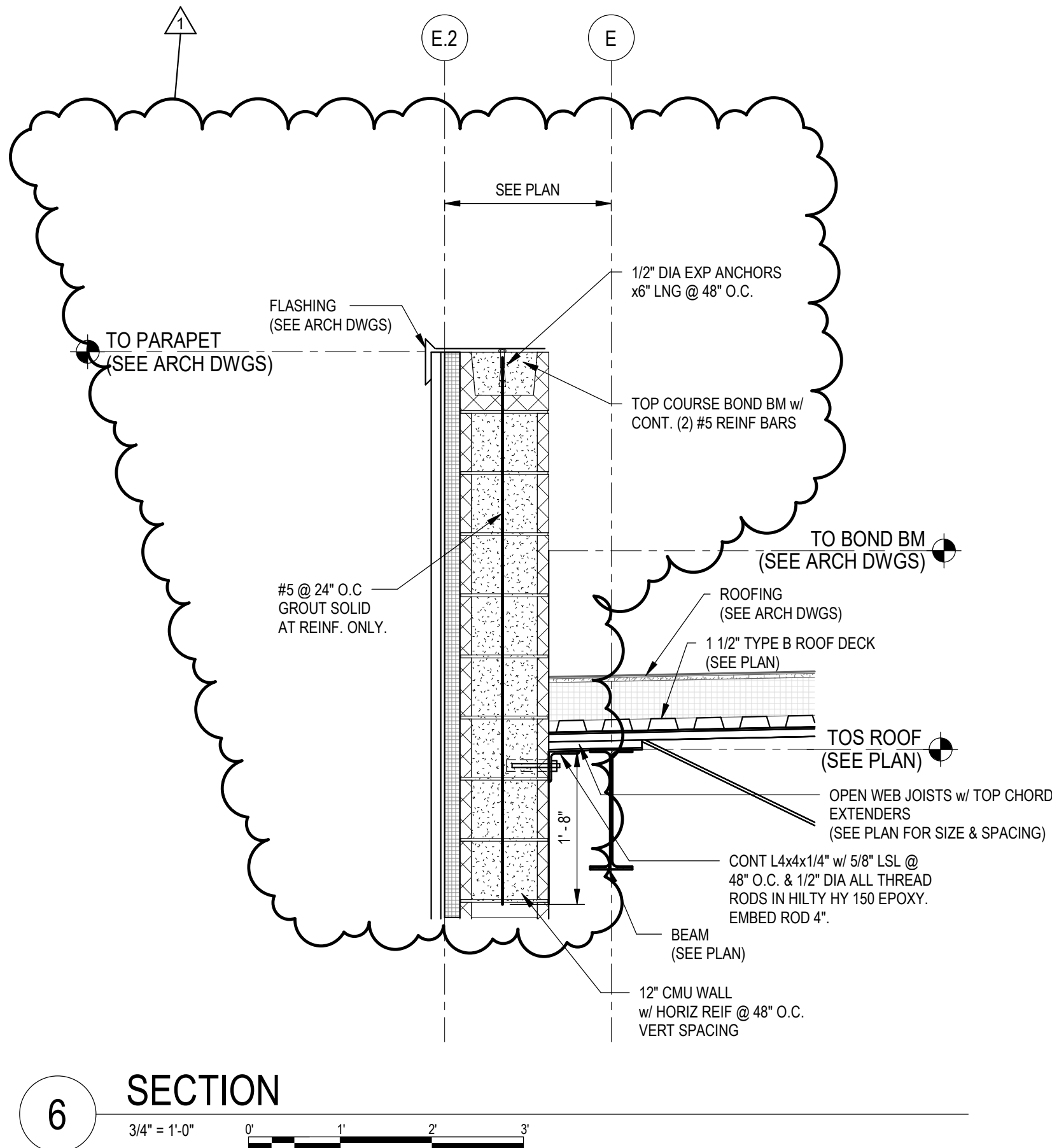
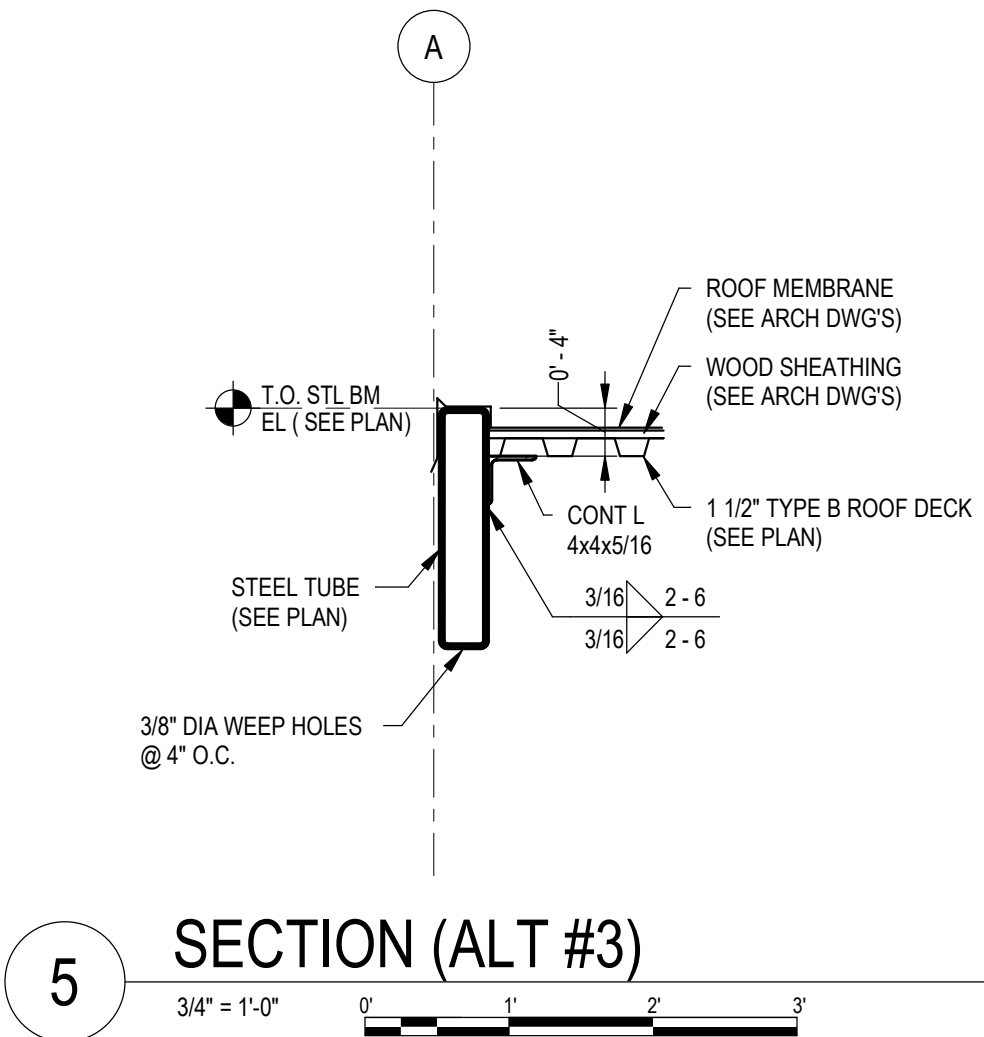
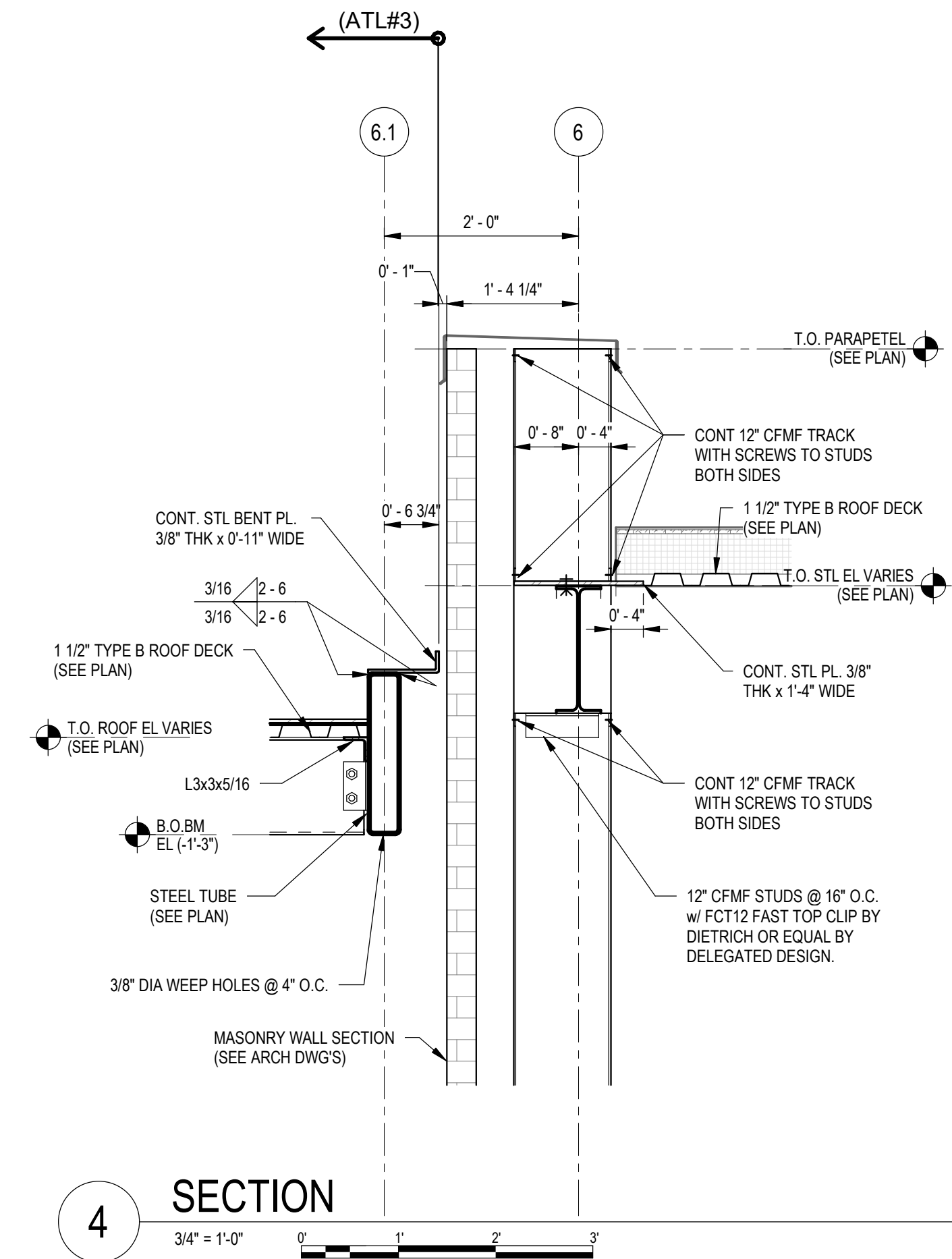
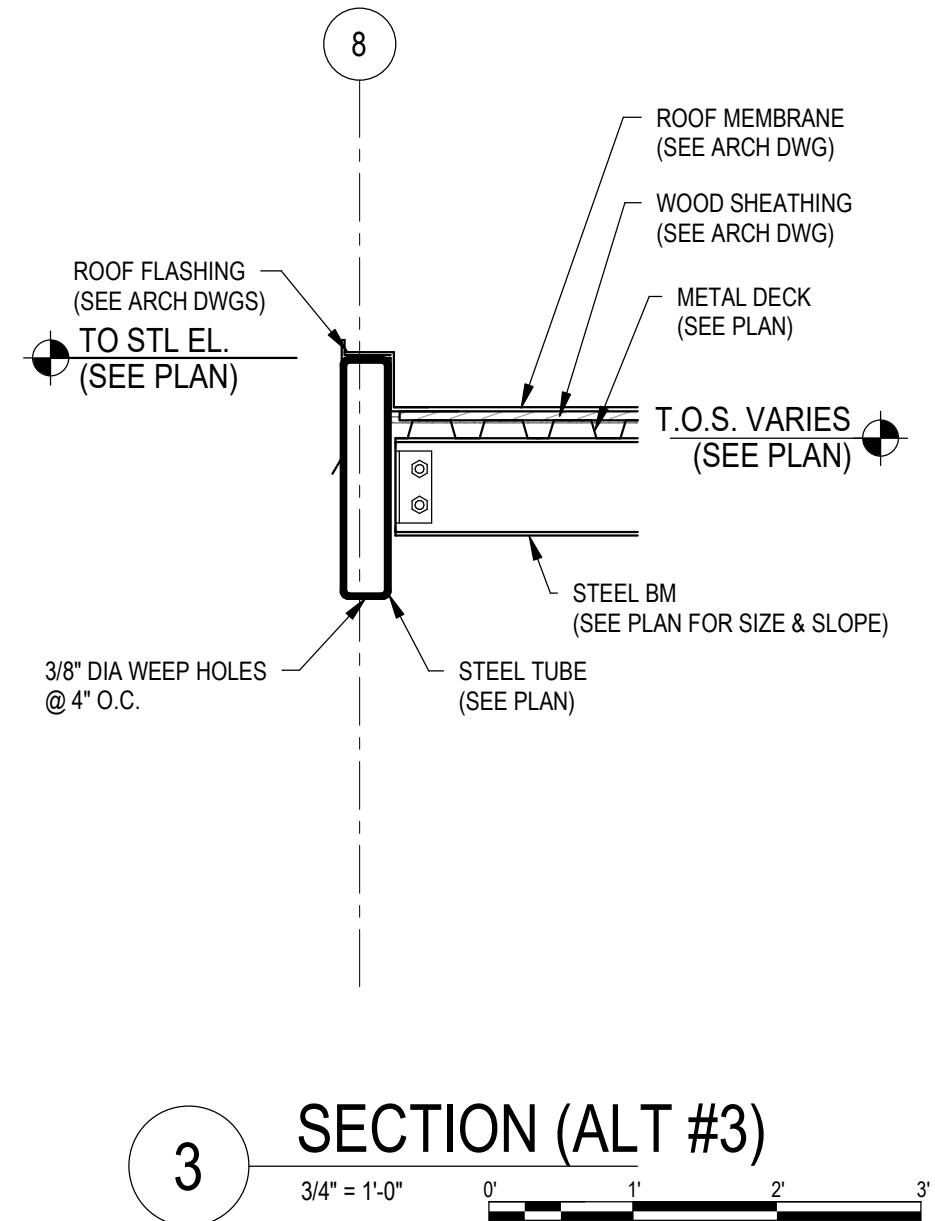
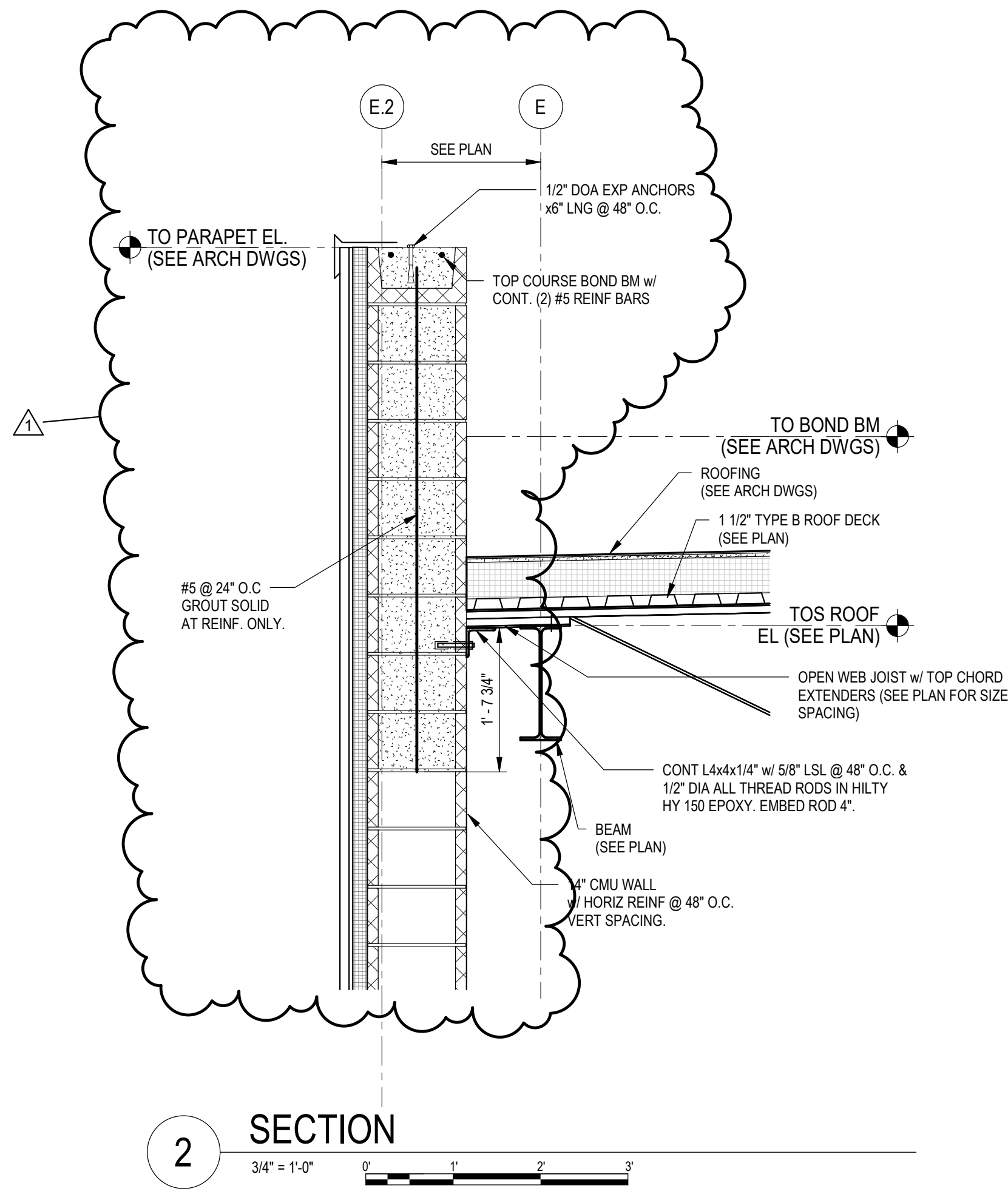
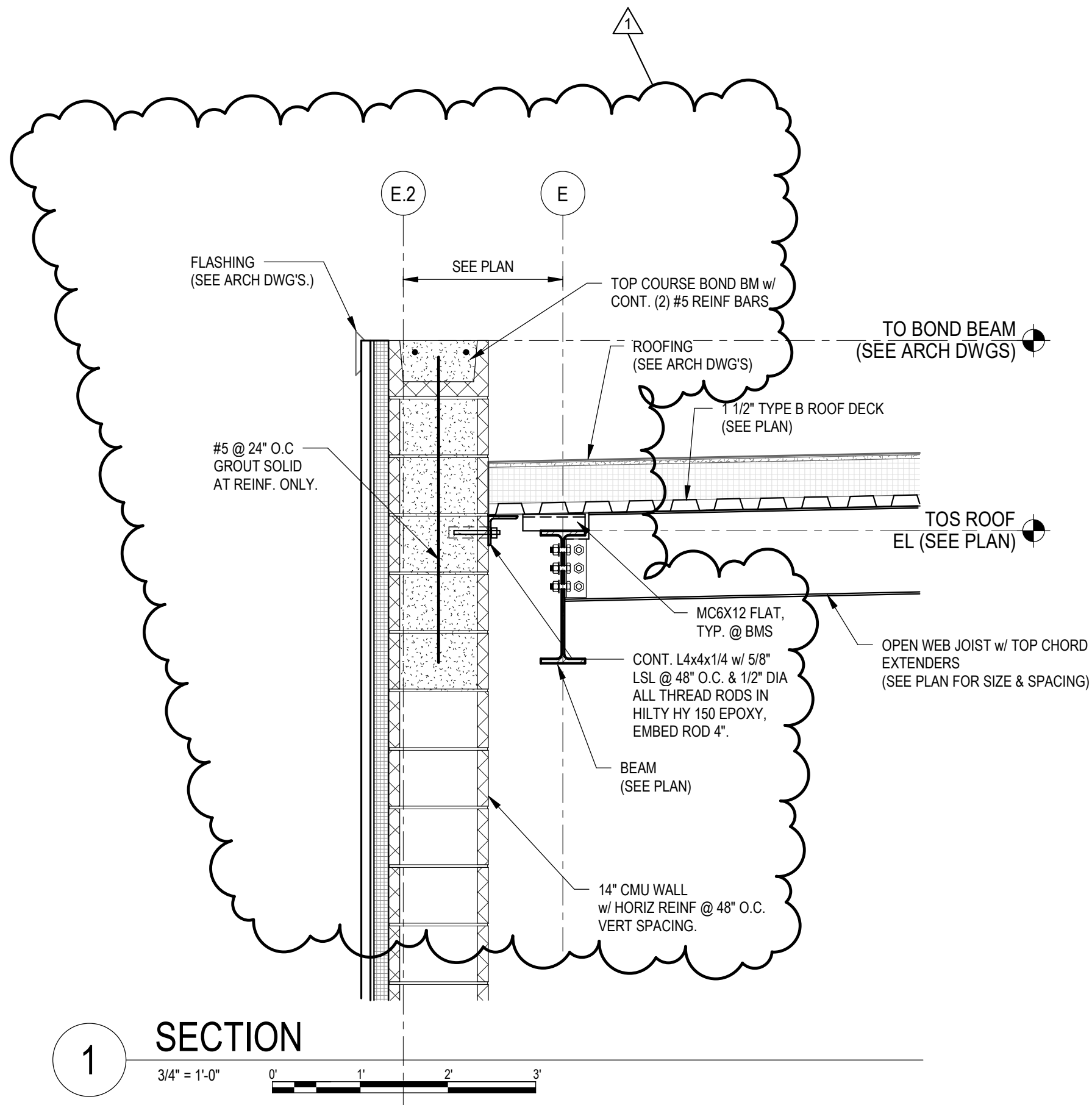
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CONSULTANTS

kcb Architects

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Project Status ISSUED FOR ADDENDUM 1 03/21/2025

SECTIONS AND DETAILS

REVISIONS	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

MARK	DATE	DESCRIPTION
1	3/21/25	ADDENDUM 1

JOB NO.	91242
DATE	03/06/2025
SHEET NO.	

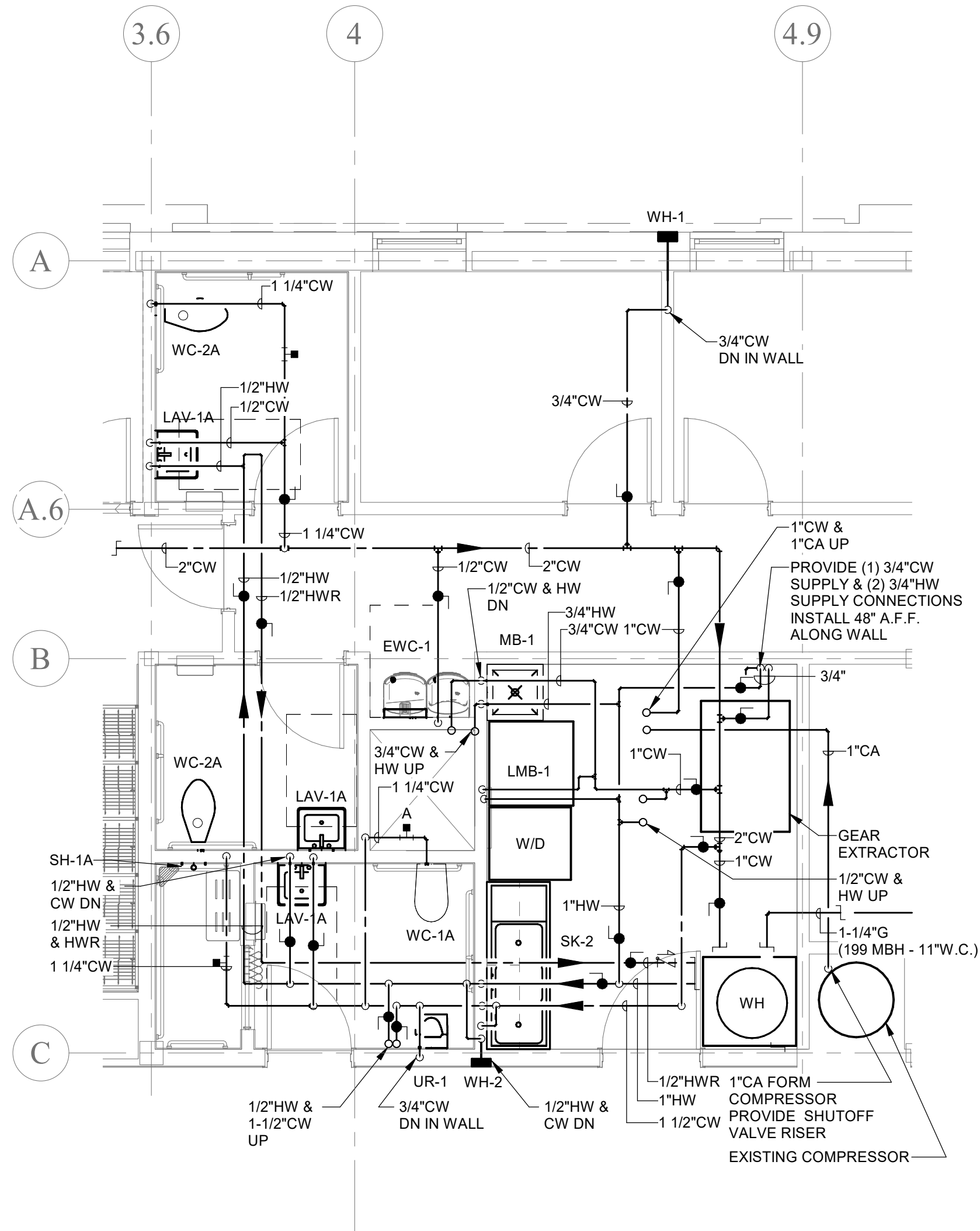
S5.06

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

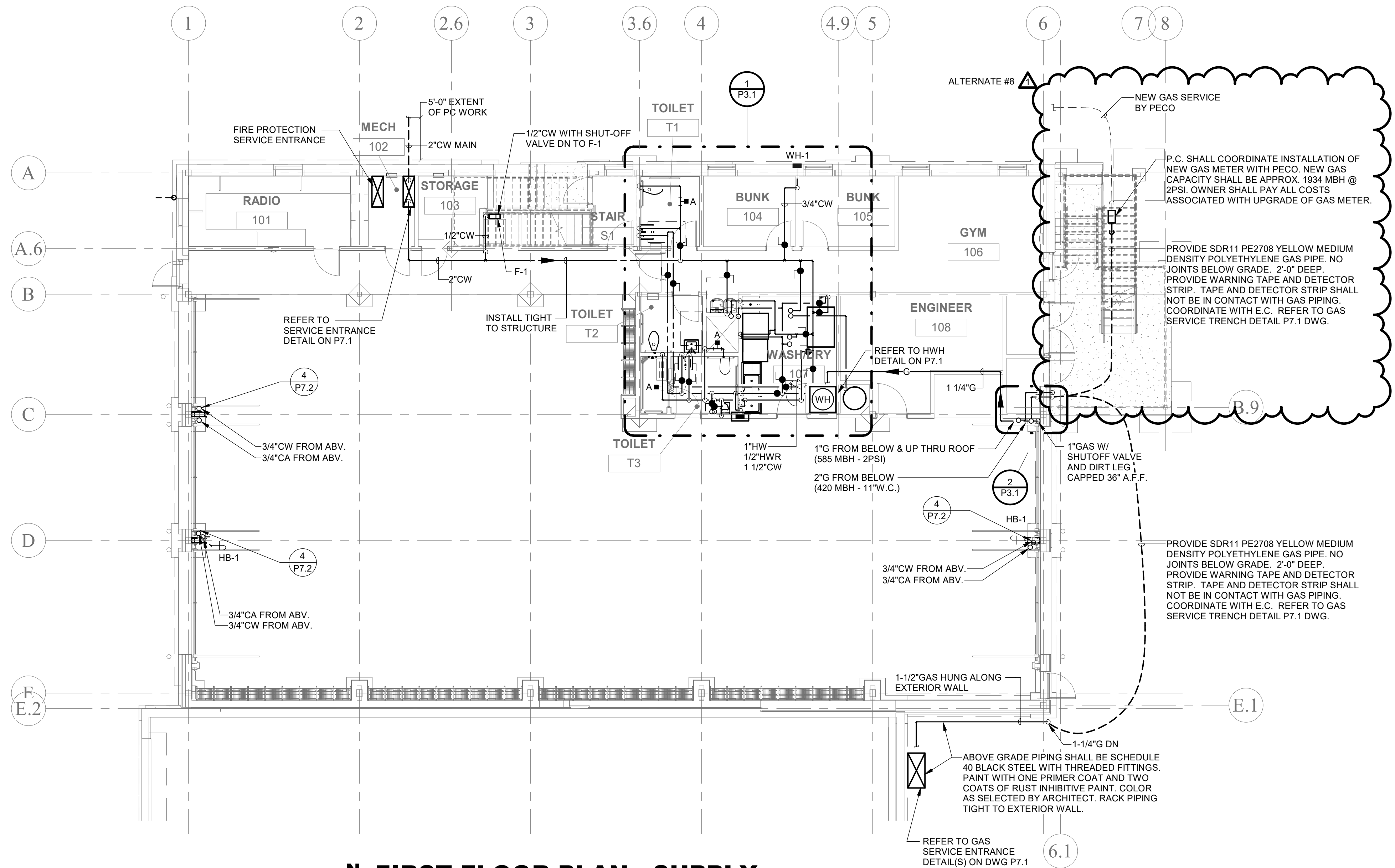
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CONSULTANTS
GMA
11 Broad Street, Suite 310
Plymouth, PA 15460
810.855.2000 www.gmaonline.com

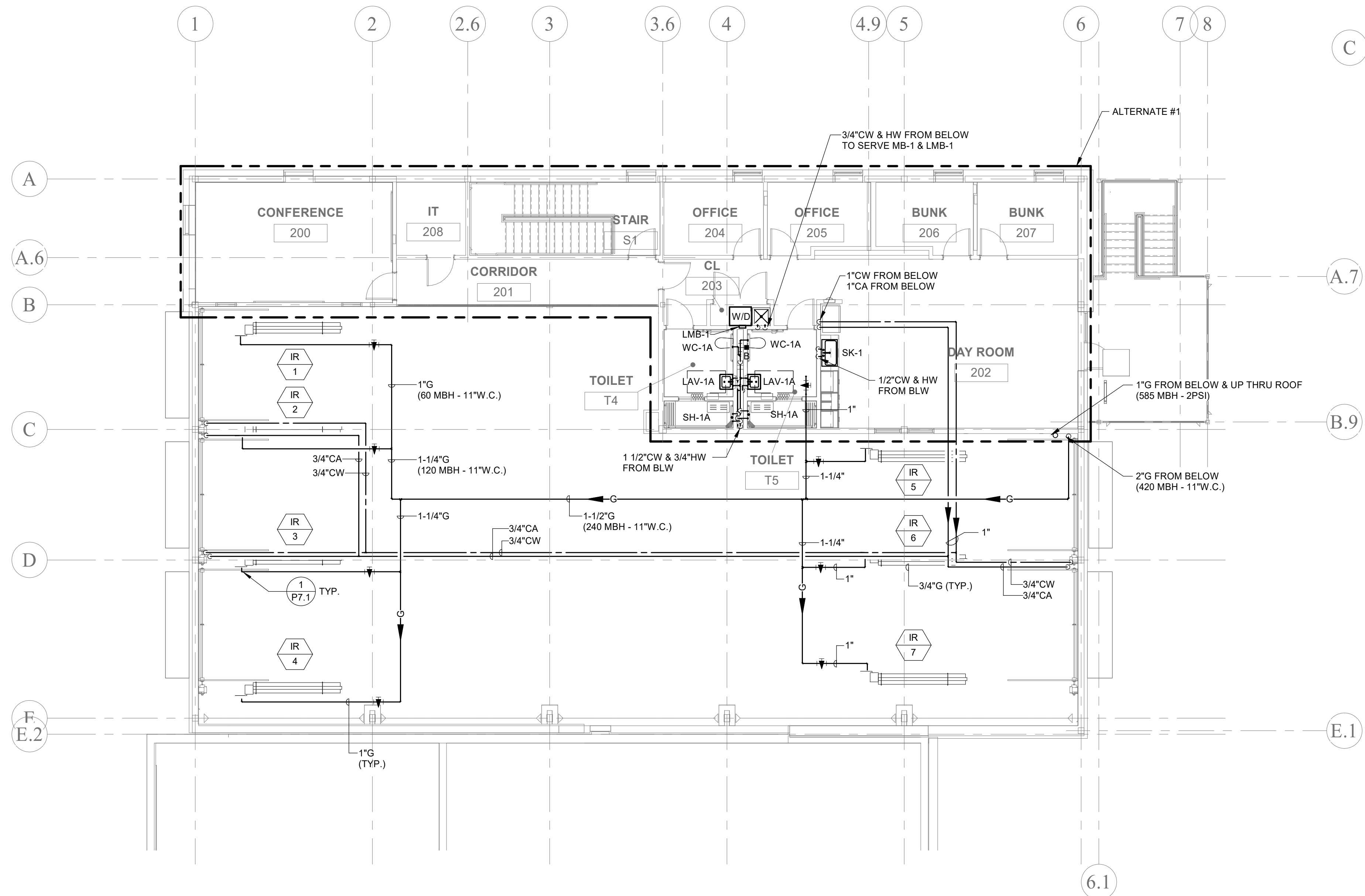
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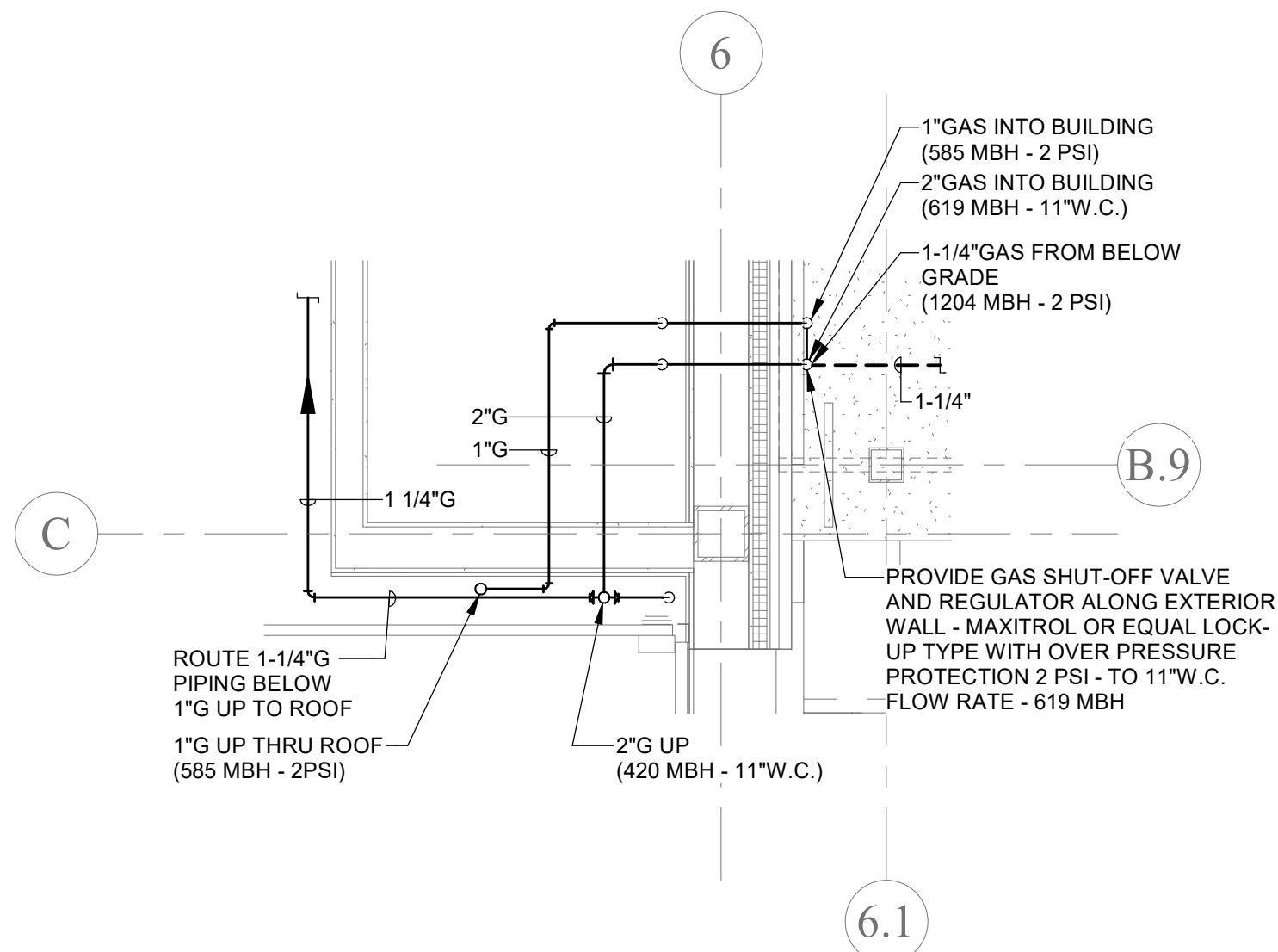
N ENLARGED PARTIAL SUPPLY PLAN
1/4" = 1'-0"



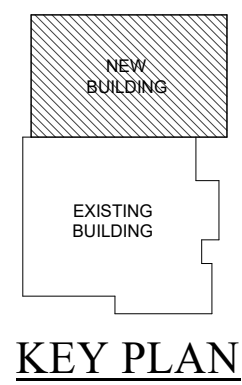
N FIRST FLOOR PLAN - SUPPLY
1/8" = 1'-0"



N SECOND FLOOR PLAN - SUPPLY
1/8" = 1'-0"



2 ENLARGED GAS ROUTING
1/2" = 1'-0"



KEY PLAN

ISSUED FOR BIDDING

FLOOR PLANS - SUPPLY

JOB NO. 509020
DATE 03.06.2025
SHEET NO.

P3.1

NEW FIRE STATION
FOR THE
THE HARMONVILLE FIRE COMPANY
TOWNSHIP OF PLYMOUTH MONTGOMERY COUNTY, PA

REVISIONS	DATE	DESCRIPTION
1	03.21.2025	Addendum 1

SHEET TITLE

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